Honeywell Security Group

Honeywell



Security Products Catalogue
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IP type of protection

The type of protection indicates the suitability of electric operating materials (for example devices, lights and installation material) for various ambient conditions and, in addition, the protection of persons from a potential risk when using them.

Basics

In many applications, electric and electronic devices must work reliably over many years under difficult ambient conditions.

Apart from the admissible temperature range, exposure to chemical stress, which is understood as meaning their resistance to aggressive media in industry such as vapours, acids, bases, oil or fuels, limit their use. Moreover, the penetration of moisture and foreign matter, such as dust, must be prevented to ensure their reliable function.

As for their suitability for various ambient conditions, the systems are divided into suitable types of protection, the so-called IP codes. According to DIN, the abbreviation IP stands for International Protection, but is used as Ingress Protection in the English-speaking world. They are defined in DIN EN 60529 under the title Types of Protection and attached to the housing (IP code).

Nomenclature

A two-digit number is attached to the letters IP that always form part of the designation of the type of protection. It indicates the scope of protection a housing offers with respect to touch or foreign bodies (first digit) and moisture (second digit).

The type of protection classified by means of the IP must be distinguished from the class of protection. Both, however, refer to the protection from touching dangerous electric voltages, the IP additionally classifying the protection of the devices from soiling and moisture.

Levels of protection for protection from touch and foreign bodies (1st digit)

Digit	Protection from touch	Protection from foreign bodies
0	No protection	No protection
1	Protection from large-sized body parts diameter 50 mm	Large foreign bodies (diameter from 50 mm)
2	Finger protection (diameter 12 mm)	Medium-size foreign bodies (diameter from 12.5 mm)
3	Tools and wires (diameter from 2.5 mm)	Small foreign matter (diameter from 2.5 mm)
4	Tools and wires (diameter from 1 mm)	Grain-shaped foreign matter (diameter from 1 mm)
5 (K)	Wire protection (as IP 4) dust-protected	Dust accumulation
6 (K)	Wire protection (as IP 4) dust-proof	No ingress of dust

Levels of protection of the protection from water (2nd digit)

Digit	Protection from water
0	No protection
1	Protection from vertically dripping water
2	Protection from diagonally (15°) falling drip water
3	Protection from falling spray water up to 60°, relative to the vertical
4	Schutz gegen allseitiges Spritzwasser
4 k	Protection from spray water on all sides
5	Protection from hose water (nozzle) from any angle
6	Protection from strong hose water (flooding)
6 k	Protection from strong hose water under elevated pressure (flooding), only applicable to street vehicles
7	Protection from temporary submersion
8	Protection from permanent submersion

If one of the two digits does not have to be specified, that digit will be replaced with the letter X (for example "IPX1"). If required, letters can be attached to the combination of number for more detailed description of the type of protection. Thus, the letter K is used to identify the equipment of street vehicles for certain codes.

More information on the IP types of protection can be found in DIN EN 60529 and in the IEC Publication 529. Until October 1992, the types of protection were defined in DIN 40050.

Typical types of protection

In industrial plants, the equipment is typically rated IP 54, in switch cabinets it is IP 20. Depending on the installation site, IP 65 is a useful rating in the automotive field. In installation sites in vehicles that are openly accessible, in particular in construction machines, IP67 and IP6K9K are used in disaster prevention and military technology.

Often (e.g. in operating elements in public transportation or in lifts) it is also necessary to make provisions against vandalism, in which case IP5X is a useful rating, even if the operating circuits are working with low voltage and there is no increased risk of soiling. Complete protection from touch is provided from IP 5X since accidental ingress is prevented starting with this level of protection.

Informations

VdS = VdS approval (VdS-Schadenverhütung GmbH)

= Information, important notes such as special versions, dependencies, etc

= Packaging unit

= Scope of delivery of the article, list of delivered components not shown

= Delivery period of the article if it differs from the standard delivery period (1 to 7 days)

Information regarding the packaging units:

For all unlabelled articles, the packaging unit is 1.

If the packaging unit is greater than 1, the following applies:

1. The article shall only be sold in packaging units.
2. The quantity to be ordered always refers to the number of packaging units and not to the number of individual articles.
3. The price listed in the catalog is always the price of the packaging unit and not the price of the individual article.

Environmental class according to VdS

The VdS Guidelines for hazard detection systems VdS 2110 titled "Protection against environmental influences" describe the requirements on the performance of hazard detection systems with environmental influences and the respective test methods. The tests for determining the environmental classes comprise not only tightness to the penetration of foreign bodies, dust and water, but include a wide range of further tests:

- Climatic environment
- Additional climatic requirements
- Biological environment
- Chemically active substances
- Mechanically active substances
- Mechanical environment

On the basis of these practice-oriented test for the division into environmental classes, this list of products also lists the VdS environmental class for all devices suitable for outdoor use.

The VdS Guidelines define four environmental classes:

Test	Audit	Endurance test	Degree of severity of the environmental class, short description of the influence			
			I	II	III	IV
Dry heat (T1) according to IEC 60 068-2-2	x		+40° C, 16 h	+55 °C, 16 h		+70 °C, 16 h[1)]
Dry heat (T2) according to IEC 60 068-2-2		x	No test			+70 °C, 21 d[1)]
Cold (T3) according to IEC 60 068-2-1	x		+5 °C, 16 h	-10 °C, 16 h	-25 °C, 16 h	
Constant humid heat (T4) according to IEC 60 068-2-56	x		+40 °C, 4 d 93% rel. h.		No test	
Constant humid heat (T5) according to IEC 60 068-2-3		x	+40 °C, 21 d, 93% rel. LF			
Cyclic humid heat (T6) according to IEC 60 068-2-30	x		No test	+40 °C, 2 cycles	+55 °C, 2 cycles	
Cyclic humid heat (T7) according to IEC 60 068-2-30		x	No test		+55 °C, 6 cycles	

[1)] The objective of the test at 70 °C is to cover the heating effect of solar radiation.

When selecting products for outdoor use, the relevant ambient conditions can be seen from the description of the environmental class. The test conditions are described in detail in the Guidelines "VdS 2110 - Protection against environmental influences".

Abbreviations

The desired compactness of this list has made it necessary to work with abbreviations for some article designations. For your orientation, the most frequent abbreviations (legend) are listed below.

AC	=	Alternating current
AM	=	Anti-Masking
BMT, FDT	=	Fire detection technology
BS	=	Block lock
BUS-1	=	Bus system 1
BUS-2	=	Bus system 2
BWK, APB	=	Anti Passback
DB	=	Database
DC	=	Direct current
DTMF	=	Dual Tone Multiple Frequency
el.	=	electronic
EMC	=	Intrusion detector computer
FAI	=	First alarm indication
EMT IDT	=	Intrusion detection technology
EMZ, IDCP	=	Intrusion detector control panel
HE	=	Unit/s of height;
1 HE	=	44.45 mm
HF	=	High frequency
HTML	=	Hyper Text Mark up Language
IP	=	Internal Protection or Internet Protocol
ISDN	=	Integrated Services Digital Network
LAN	=	Local Area Network
LCD	=	Liquid Cristal Display
MF	=	Multi-functional
PIN	=	Personal Identification Number
PL	=	Product Line
RAID	=	Redundant Array of Independent Disks
RAL	=	German Institute for Quality Assurance and Marking
RWT	=	Rescue route technology
SQL	=	Standard Query Language
TE=HP	=	Horizontal Pitch
uni	=	universal
VdS	=	German Insurance Association
ZG0	=	Housing size W 230 x H 155 x D 190 mm
ZG1	=	Housing size W 300 x H 186 x D 125 mm
ZG2	=	Housing size W 350 x H 300 x D 152 mm
ZG3.1	=	Housing size W 500 x H 300 x D 210 mm
ZG3.2	=	Housing size W 500 x H 300 x D 260 mm
ZG4	=	Housing size W 580 x H 640 x D 300 mm
ZG5	=	Housing size W 600 x H 630 x D 300 mm
ZG6	=	Housing size W 600 x H 1035 x D 300 mm
ZG7.1	=	Housing size W 488 x H 272 x D 155 mm
ZG7.2	=	Housing size W 488 x H 272 x D 230 mm
ZG8.1	=	Housing size W 488 x H 405 x D 155 mm
ZK, AC	=	Access control
XML	=	Extended Markup Language

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Notizen



Management Systems

- WINMAG plus
- WINMAG Lite

Network technology

- IGIS-LOOP

Parameterisation software

- IQ SystemControl
- WINFEM

Software Management System for Hazard Alarm Systems



Performance Features

- Compatible with:
  - Windows XP Professional (SP3) 32-bit version
  - Windows Server 2003 32-/64-bit version
  - Windows Vista 32-/64-bit version
  - Windows Server 2008 32-/64-bit Version (Foundation version not possible)
  - Windows 7 32-/64-bit version
- Modular design and free programmability
- Direct control of the users in the network
- Sequence of measures for service personnel
- Individual assignment of user rights - priority control
- Simulation functions integrated
- Extensive logging of events and operations
- Webbased protocol analysis
- Visualisation of messages
- Up to 12 active graphics can be displayed simultaneously
- Integration of video sequences possible
- Output of information via Window print manager to several printers, etc.
- 10 graphics printers possible per workstation
- Time programmes/calendar function
- Standard feature via integrated database
- Other programmes can be activated while in WINMAG plus
- Powerful programming language SIAS for customer-specific adaptation of the interface and sequences in case of alarm
- Remote control via modem possible as an option

Current language versions of WINMAG plus:

- Chinese
- Czech
- German
- English
- Spanish
- French
- Hungarian
- Italian
- Dutch
- Romanian
- Russian
- Croatian
- Slovak
- Polish

Respective program version on request.

WINMAG plus is a PC-based management system developed especially for the requirements of hazard detection technology.

WINMAG plus manages and visualises the fields of intrusion detection technology, fire detection technology, access control technology, video technology, rescue route technology/escape door control under a uniform user interface. The database and user interface are structured according to common standards. Messages are displayed graphically and in text form.

The WINMAG plus options in terms of application technology are wide-ranging. They range from clearly organized messages to the the active control of all signaling components.

Based on our IGIS-Loop and essernet® security networks, WINMAG plus is a professional and convenient visual information and management solution.

The program:

Through its modular design, WINMAG plus provides software suitable for every system size and every field of application. The product range goes from the WINMAG plus standard pakkage for single-station systems to the upgrade software from GEMAG to WINMAG plus. Licensing enables the purchased program options and authorises the use of the program. The licence comes with a copy-protection plug (dongle), which is plugged into a parallel interface or a USB port of the WINMAG plus computer. In a multi-station system, each computer containing transponders requires a copy-protection plug. Workstations which do not have a connection of their own do not require a copy-protection plug.

The licence is for one release version from version 1. When changing from an old WINMAG main version, the licence must be updated to the current version.

When the copy-protection plug is removed with the programme running, WINMAG plus will run at most for another 72 hours in the online mode.

Service for setup engineers:

From entering detection points to preparing graphics, we offer a large number of services in connection with WINMAG. We introduce WINMAG plus to the system operator, draw up the specification together with him, prepare SIAS programs and complete applications, train the operating personnel and oversee the installation up to the handover/acceptance.

Interfaces/Drivers:

In addition to the drivers for our security systems listed in the catalogue, we can offer you a large number of additional drivers for a wide range of technical systems and manufacturers. Since the number of available drivers is constantly increasing, an updated list of drivers can be downloaded upon request. Should the required driver not be available, it can be developed by us. An alternative possibility is to connect the technical systems via the standardised OPC interface. This interface is an international standard that is supported by many manufacturers from a wide range of areas. For the development of your drivers, we offer the Connection Server and a development package. It allows you to write your own drivers for WINMAG plus.

Hardware and software requirements:
Intel Dual Core or higher, min. 2 GB RAM (4 GB recommended), min. 80 GB available hard disk storage, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, compatible with Windows XP Professional (SP3) 32-bit version, Windows Server 2003 32-/64-bit version, Windows Vista 32-/64-bit version, Windows Server 2008 32-/64-bit version (Foundation version not possible), Windows 7 32-/64-bit version, Internet Explorer from version 7.0. For the external logging the Windows component “Internet Information Service” (IIS) is additionally required.

To order WINMAG plus and/or additional licences, please use the WINMAG plus order form.

013610 DVD control centre software WINMAG plus standard package



DVD containing the WINMAG plus control centre software for hazard detection systems, excluding licence, compatible with Windows XP Professional (SP3) 32-bit version, Windows Server 2003 32-/64-bit version, Windows Vista 32-/64-bit version, Windows Server 2008 32-/64-bit Version (Foundation version not possible), Windows 7 32-/64-bit version.

The standard software plus the appropriate licences allows you to manage and operate hazard detection systems via a PC.

Hazard messages are displayed in text form and graphically. This makes it possible to use the PC also as an electronic emergency plan.

The WINMAG plus standard package will work without licence for demonstration purposes for 20 eight-hour days as full version with panel connection and will then switch back to the offline mode.
After expiry of the test period, the connection to connected components will be disabled. A start in the offline mode will not reduce the number of online test runs.
The demo mode is a viable editing interface. All components will work with the exception of importing messages. Via simulation, every sequence can be tested even in the demo mode and all editing functions can be used.

Standard licences

013630 WINMAG plus control centre software standard licence



This standard licence is for enabling the standard package/demo version as unlimited visualisation software on server workstations and on clients in the network.

To connect control panels to server workstations, further licences are required (see 013601, 013603 - 013606, 013608, 013611 - 013613, 013623 - 013626).

Copy-protection plug for the parallel port.

013631 WINMAG plus control centre software standard licence



WINMAG plus control centre software standard licence including copy-protection plug for USB port.

This standard licence is for enabling the standard package/demo version as unlimited visualisation software on server workstations and on clients in the network.

To connect control panels to server workstations, further licences are required (see 013601, 013603 - 013606, 013608, 013611 - 013613, 013623 - 013626).

Copy-protection plug for USB port.

Upgarde package

013616 Upgrade of a WINMAG installation from version 6



Upgrade of a WINMAG installation to the latest WINMAG plus control centre software.

An existing WINMAG installation from version 6 can be upgraded to the latest WINMAG plus control centre software. Entering the licence or update number is mandatory. For each PC it is connected to, a separate upgrade must be ordered.

For ordering the licence number of the standard licence and the end user data sheet are required.

013617 Upgrade of a WINMAG installation up to version 5



Upgrade of a WINMAG installation to the latest WINMAG plus control centre software.

An existing WINMAG installation lower than version 6 can be upgraded to the latest WINMAG plus control centre software.

For each PC it is connected to, a separate upgrade must be ordered.

This upgrade includes a copy-protection plug (dongle) plus the licences for fire detection and intrusion detection technologies and four clients. For extensive systems, an individual offer must be requested.

013636 WINMAG Lite upgrade to WINMAG plus full version



Once the system limits of WINMAG Lite have been reached, an upgrade to the full version is possible without problems, since both systems access a common database.

WINMAG plus options are not part of the upgrade and must be ordered separately.

013645 Replacement Dongle USB instead Parallel

NEW



Needed, when e. g. through replacement of the computer no more parallel interface is available.

Extension licences

013609 WINMAG plus control centre software later extension



This ordering number is an auxiliary number for a later option extension (e.g. additional client or later enable of video technology) for an existing WINMAG installation from V6.0. The appropriate licences must be ordered additionally.

Information regarding the licences in question:
Only one licence each is required for connecting any desired number of detection control panels to a PC. These licences can be ordered separately (at a later stage) only in connection with this auxiliary number. The update number of the standard licence must be given.

013601 Intrusion detection technology licence



Option for the WINMAG plus standard licence. It is required when intrusion detection technology units are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell intrusion detection systems MB/HB and 5008.

013643 Licence Galaxy Dimension

NEW



Option for the WINMAG plus standard licence. It is required when intrusion detection technology units of the type Honeywell Galaxy Dimension are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell intrusion detection systems Galaxy Dimension.

013626 Fire detection technology licence



Option for the WINMAG plus standard licence. It is required when fire detection technology units from Esser by Honeywell are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell fire detection systems 1024, 1016, 8000 and IQ8Control.

013642 Licence Notifier Fire panels

NEW



Option for the WINMAG plus standard licence. It is required when fire detection technology units of type ID3000 from Notifier by Honeywell are to be connected to WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell Notifier fire detection systems of the type ID3000 and derivatives. This license cannot be operated together with 013601/013602.

013603 Access control licence



Option for the WINMAG plus standard licence. It is required when access control technology units (e.g. ACS-2 and ACS-8) are to be connected to WINMAG plus.

This requires the MultiAccess for Windows or IQ MultiAccess software.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell access control systems ACS and (IQ) MultiAccess.

013638 Licence Honeywell video

NEW



Option for the WINMAG plus standard licence. It is required when Honeywell video technology units are to be operated on WINMAG plus. The devices are capable of executing commands such as pivoting, zoom, tilting, monitor selection, etc., depending on the model.

The following Honeywell video devices have previously been supported:
Honeywell MaxPro 32; Honeywell Fusion; VisiOprime; further brands upon request.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013620 Licence MaxPRO VMS

NEW



Option for the WINMAG plus standard licence. It is required when video technology from Honeywell with MaxPRO VMS is to be integrated with WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013604 Licence Video technology



Option for the WINMAG plus standard licence. It is required when Honeywell video technology units are to be operated on WINMAG plus. The devices are capable of executing commands such as pivoting, zoom, tilting, monitor selection, etc., depending on the model.

The following Honeywell video devices have previously been supported:
Dallmeier; Bosch IP cams; Ernitec M 500 and M 1000; Philips LTC 8x00; Geutebrück Vicrosoft; Geutebrück Multiscope; Video X; Pelco; further brands upon request.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013629 Licence Geutebrück video connection

NEW



Option for the WINMAG plus standard licence. It is required when video technology units of the type Geviscope from the manufacturer Geutebrück are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013619 Licence HeiTel video connection

NEW



Option for the WINMAG plus standard licence. It is required when video technology units of the manufacturer HeiTel are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013632 Licence Dallmeier video connection

NEW



Option for the WINMAG plus standard licence. It is required when video technology units of the manufacturer Dallmeier are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013658 Licence SeeTec video connection

NEW



Option for the WINMAG plus standard licence. It is required when video technology units of the manufacturer SeeTec are to be operated on WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013605 Escape route technology/escape door control licence



Option for the WINMAG plus standard licence. It is required when WINMAG plus is to be used to operate escape route technology/escape door control units (e.g. Dorma) are to be operated. The status of escape doors is shown graphically.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell escape route technology/escape door control.

013623 DEZ 9000 interface licence



Option for connecting the remote operating control panel DEZ 9000 to the WINMAG plus system.

The connection also allows applications to be connected to the WINMAG plus system that work with the VdS-2465 transmission protocol.

013646 Licence DS 6750/7700

NEW



Option for the WINMAG plus standard licence. It is required when alarm transmission units DS 6750 or DS 7700 are to be connected to WINMAG plus.

Allows stand-alone operation of the DS6750 and the DS 7700 directly without intruder panel. Up to 88 inputs or 82 outputs available. System information like phone line status, PSU status and status of steady connection to ARC and video systems are also available.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The licence is for connecting the Honeywell alarm transmission systems DS 6750 and DS 7700.

013608 WINMAG plus including RDT licence



Option for the WINMAG plus standard licence. Allows WINMAG plus to be operated via modem lines using DS 7600 / 7700 / 9500 / 9600 and DS 6600 / 6750 on Honeywell intruder panels and stand alone operation of DS 6750 and DS 7700.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

WINMAG plus SDK

013606 Licence WINMAG plus SDK



Option for the WINMAG plus standard licence. The SDK is a software module that allows an external system to be connected to WINMAG plus. It offers a comfortable interface that allows data and controls to be exchanged bidirectionally in the I/O device format with WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013607 Developer Kit WINMAG plus SDK



This Developer Kit allows you to program WINMAG plus connections to third providers yourself. This package contains the SDK including the complete documentation plus one day of support on location in Albstadt.

OPC and BACnet

013590 Universal Gateway for PC



Software gateway excluding graphic interface as stand-alone solution for providing data points to master control centre systems via OPC, ESPA, BACnet.

The article 013590 can only be ordered in connection with the data point package article 013618 (500 data points). For any system connection, the corresponding licence (013601/03/04/05/23/26) must also be ordered. For a BACnet connection, the article 013627 must be ordered in addition.

013618 Data point package



Package of 500 data points for project-related provision of OPC tags, BACnet objects, ESPA data points, etc.

The data point package option can only be ordered in connection with the OPC Server licence 013590 for PC, or the OPC Server licence 013611, or the BACnet Server licence 013627.

013611 OPC Server licence



Option for the WINMAG plus standard licence. It is required if WINMAG plus is to function as OPC server.

The OPC server licence can only be ordered in connection with the data point package option (013618).
This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013612 OPC Client licence



Option for the WINMAG plus standard licence. It is required when WINMAG plus is to represent data from units equipped with OPC interfaces.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013627 BACnet Server licence



Option for the WINMAG plus standard licence. It is required when WINMAG plus data are to be transmitted via BACnet. For MB-Systems and FACP of series 800x, IQ8 and FlexES. Other systems on request. For commissioning, support by Honeywell is required.

The OPC server licence can only be ordered in connection with the data point package option (013618).

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

For commissioning, support by Honeywell is required.

BACnet Server licence:

To connect the Honeywell Security products to building automation systems by means of the standardised BACnet protocol (ISO 16484-5), please contact our ISS team.

013628 Licence BACnet-Client

NEW



Option for the WINMAG plus standard licence. It is required when WINMAG plus shall receive data via BACnet. Please ask Honeywell which sytems are connectable. For commissioning, support by Honeywell is required.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
For commissioning, support by Honeywell is required.

BACnet-Client licence:

To connect the Honeywell Security products to building automation systems by means of the standardised BACnet protocol (ISO 16484-5), please contact our ISS team.

Options

013613 Notification licence



Option for the WINMAG plus standard licence. It is required when SMS, fax or e-mail is to be sent from WINMAG plus.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The notification function requires an ISDN connection (S0) and an ISDN card.

013650 Escalation licence



Option for the WINMAG plus standard licence. It is required when SMS sent from WINMAG plus are to be acknowledged. If they remain unacknowledged, a pre-programmed escalation plan will start.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.
The escalation licence requires the notification licence 013613. The function requires a sound card in the PC.

013651 DTMF control option licence



Option for the WINMAG plus standard licence. It allows control sequences to be carried out by DTMF. In this case, it is, for example, possible to control outputs of the system connected to WINMAG plus by mobile phone.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013652 Client processing ability licence



Option for the WINMAG plus standard licence that allows you to assign individual interfaces and rights to several users.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013653 Multi-Monitor licence



Option for the WINMAG plus standard licence. This allows WINMAG plus to be displayed on up to 4 monitors showing different WINMAG plus displays from 8 possible monitors per PC. This licence is PC-based. For unconnected PCs a standard licence is required.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013660 WEBX licence



Option for the WINMAG plus standard licence. Allows a display of all system statuses via the Internet or Intranet using standard browsers (max. 5 browsers).

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013655 Auto-CAD® connection licence



Option for the WINMAG plus standard licence. It is required when WINMAG plus data are to be imported directly by AutoCAD® and detection points are to be set in AutoCAD®.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013656 WINMAG plus licence nurse

NEW



Option for the WINMAG plus standard licence. Is required to connect devices of the nurse call systems (e. g. clino System 99) to WINMAG plus.

The licence is used to connect Ackermann clino systems.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013624 Redundancy licence



Option for the redundant connection of the essernet® and IGIS-Loop security networks to a WINMAG plus server. The redundant network connection works in the master/backup mode and protects the WINMAG plus premises from data loss when the network connection is interrupted due to cable defects or when a COM port failure occurs.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

013625 WINMAG plus Client licence



Option for the WINMAG plus standard licence. Allows a client to be operated in a computer network at a server workstation. The licence must be installed at the server workstation. For each client, only the WINMAG plus software is required. For each client, one WINMAG plus Client licence is required.

This licence can be ordered separately (as later option extension) only in connection with the auxiliary number 013609. The update number of the standard licence must be given.

Service

784830 Entering a detection point



Premises-related according to written customer specification.

784832.10 Text page input



Object-related according to written customer specifications.

784833 Entering a graphics page



Premises-related according to written customer specification.

784839 Conversion of a graphics page

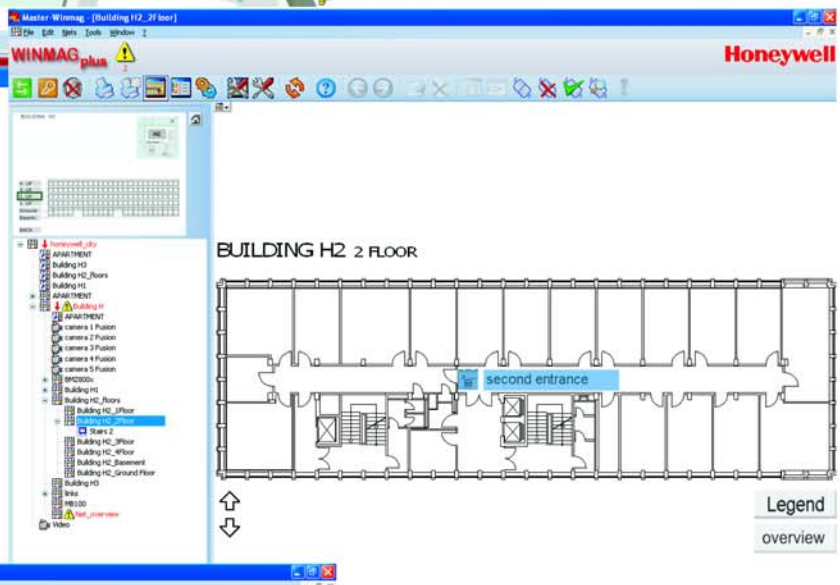


Conversion of different graphics formats to a common WINMAG plus format.

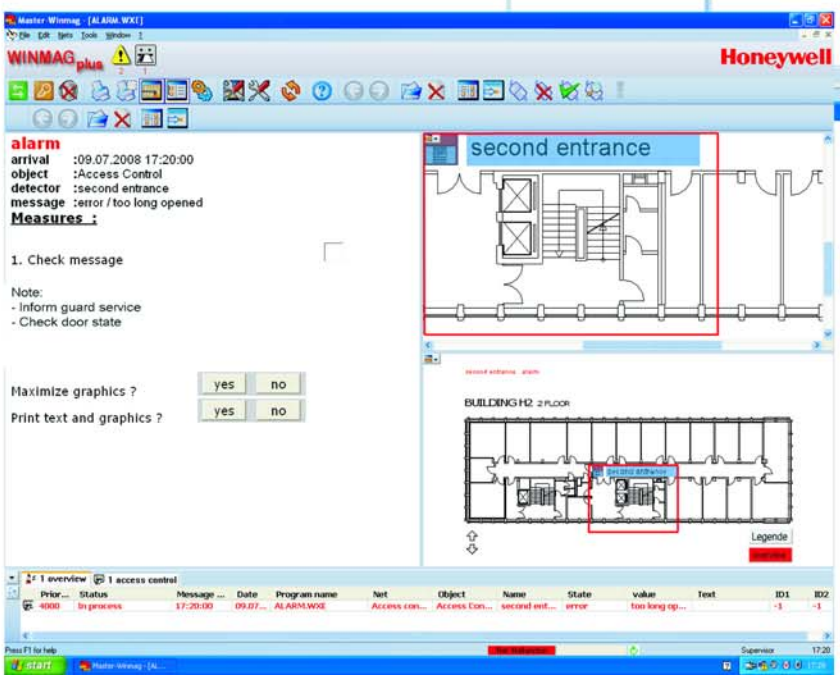
Examples of the WINMAG plus user interface



The WINMAG plus graphic view shows a graphical and tabular overview of the applied and monitored objects.



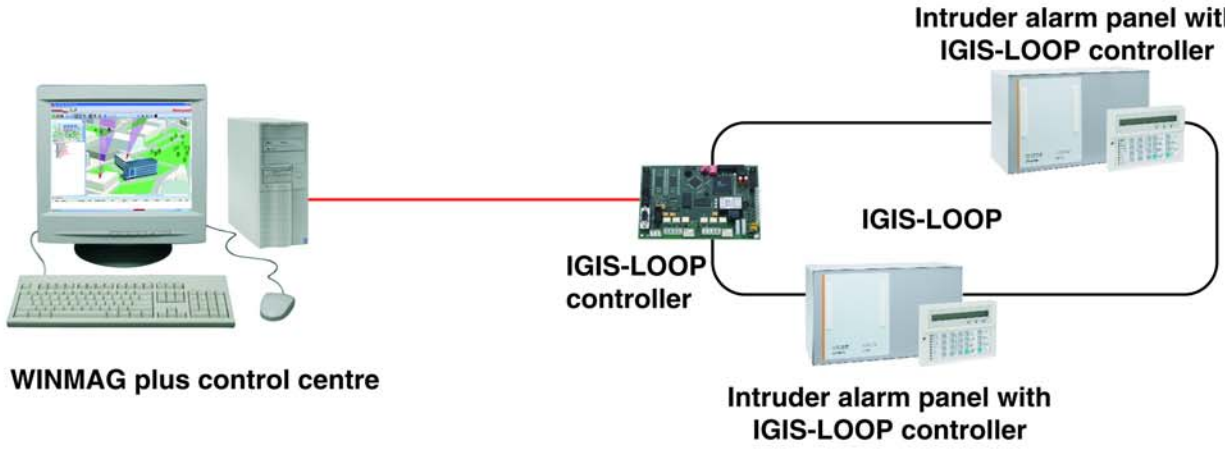
Graphic view in detail of a defined building, part of the building or a certain floor.
The ground plans or side views can be manually created or imported as file (e.g. tif, cad or other file types).



Display of an access alarm in building H2 (door too long opened) with individual created instructions for actions to be carried out.

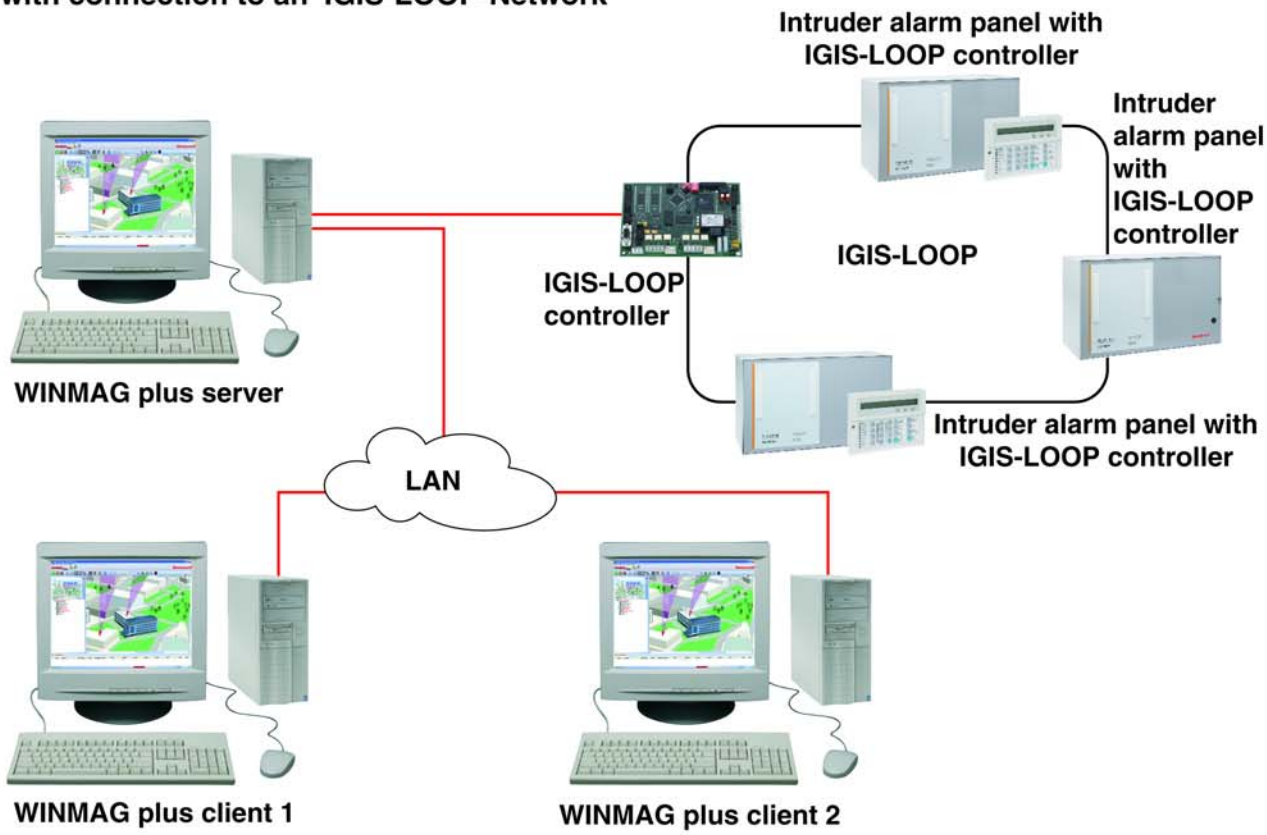
Application of the WINMAG plus system configuration

1. WINMAG plus single station with connection to an IGIS-LOOP-Network



WINMAG plus required software:	
1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601

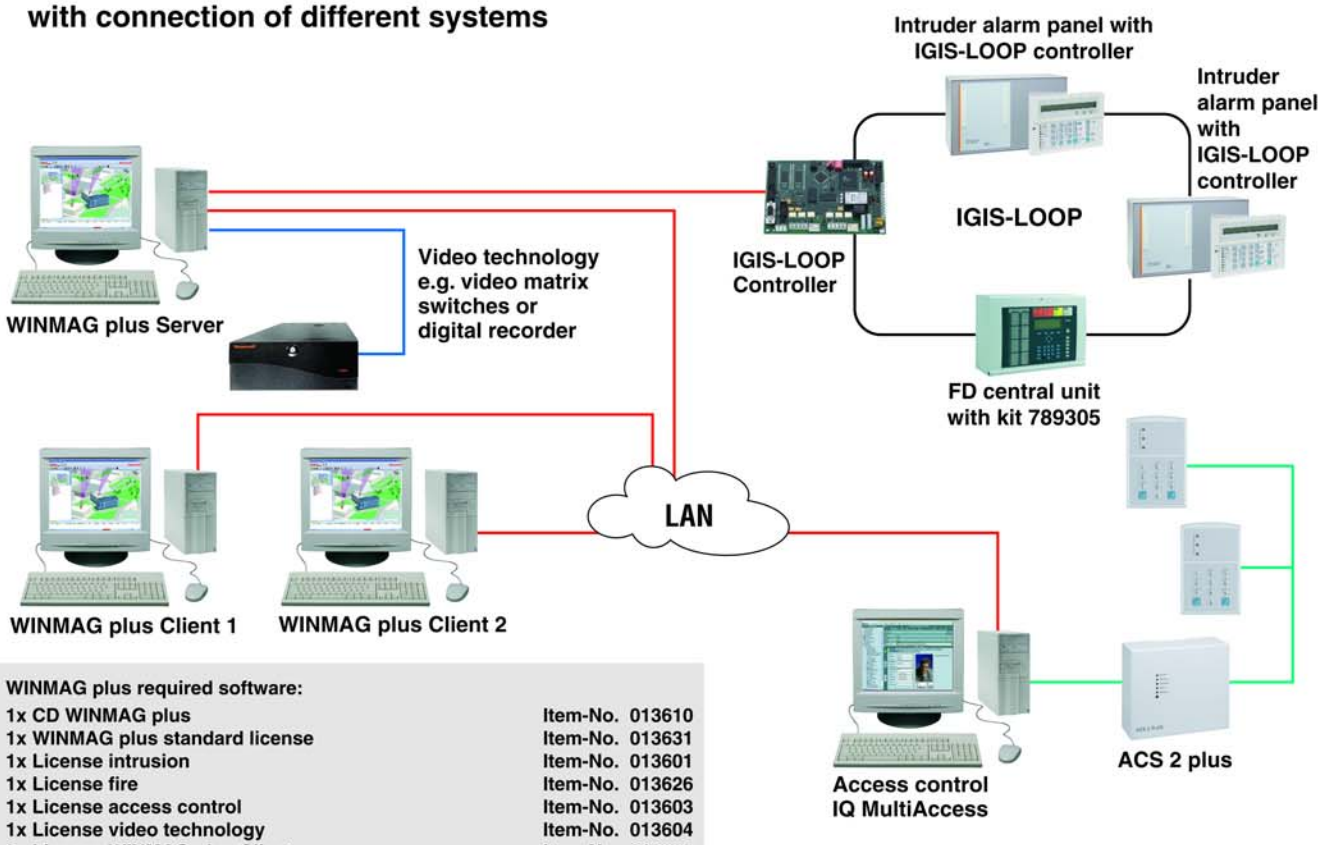
2. WINMAG plus multi station with 1 server, 2 clients and with connection to an IGIS-LOOP-Network



WINMAG plus required software:	
1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601
2x License WINMAG plus Client	Item-No. 013625

Application of the WINMAG plus system configuration

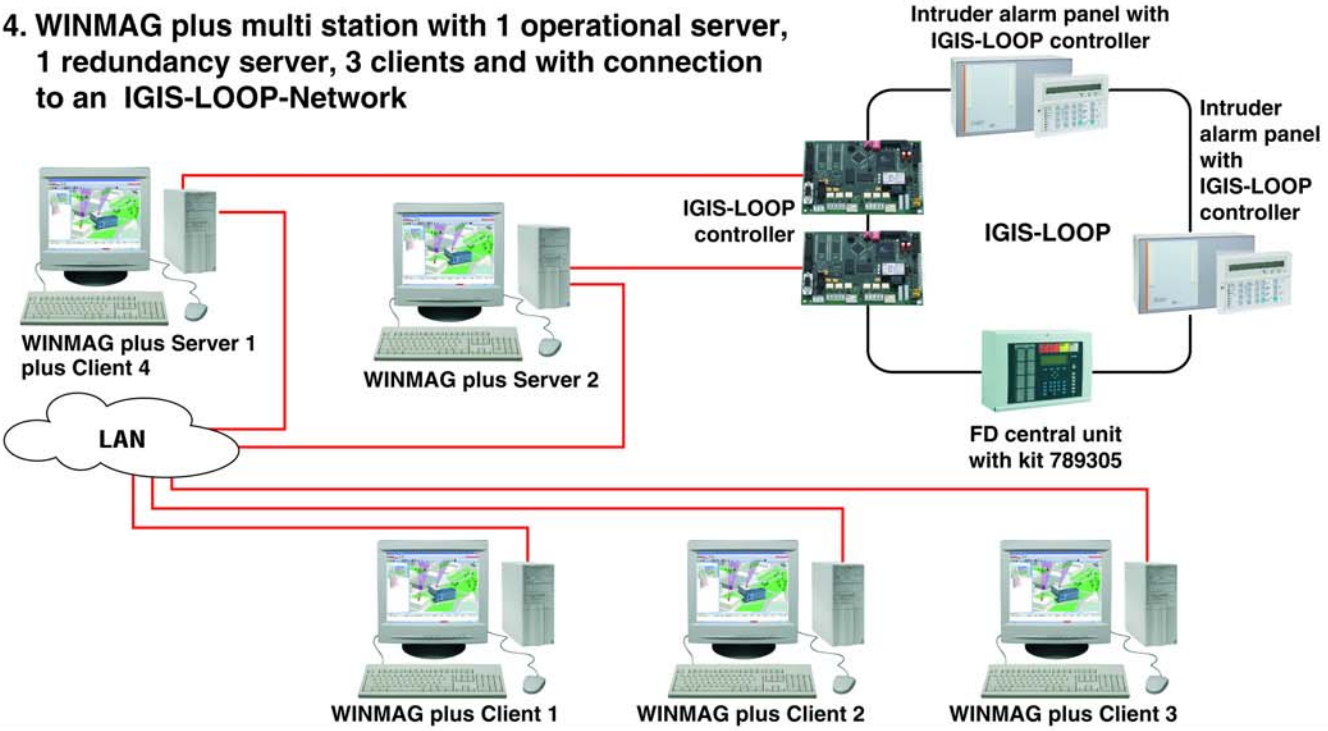
3. WINMAG plus multi station with 1 server, 2 clients and with connection of different systems



WINMAG plus required software:

1x CD WINMAG plus	Item-No. 013610
1x WINMAG plus standard license	Item-No. 013631
1x License intrusion	Item-No. 013601
1x License fire	Item-No. 013626
1x License access control	Item-No. 013603
1x License video technology	Item-No. 013604
2x License WINMAG plus Client	Item-No. 013625

4. WINMAG plus multi station with 1 operational server, 1 redundancy server, 3 clients and with connection to an IGIS-LOOP-Network



WINMAG plus required software:

Server 1		Server 2	
1x CD WINMAG plus	Item-No. 013610	1x WINMAG plus standard license	Item-No. 013631
1x WINMAG plus standard license	Item-No. 013631	1x License intrusion	Item-No. 013601
1x License intrusion	Item-No. 013601	1x License fire	Item-No. 013626
1x License fire	Item-No. 013626		
4x License WINMAG plus Client	Item-No. 013625		
1x License redundancy	Item-No. 013624		

013635 WINMAG Lite including USB copy-protection plug

Honeywell Software

Performance Features

- Low-cost management software for hazard detection systems
- Visualisation and control of video management systems
- VisiOprime or Fusion and additionally Visualisation and control of only one hazard detection central unit (FDCP, IDS, rescue route technology, AC)
- a maximum of three users possible
- Management of up to 500 detection points per premises
- Processing of up to 100 messages per second
- Processing of up to 100 macro sequences
- Connection of log and alarm printers
- Information output via monitor and/or printer (Windows standard printer)
- Adjustable program background
- Flexible, window-oriented graphics
- Displaying and finding detectors in graphics
- Displaying the current situation
- Predefined alarm message
- Simulation function
- Extensive logging of events and operation
- Connection via RS-232, modem, ISDN, TCP/IP

WINMAG Lite is the low-cost entry into the management of hazard detection systems. Easy handling, as well as predefined practice-related types of control units and detection points facilitates the startup and operation of WINMAG Lite.

WINMAG Lite is highly suitable for small systems for which in the near future no large extensions or no link-up of further hazard detection control panels are planned. Thus, the Lite version offers a wide range of applications even to WINMAG plus professionals.

The combination of a hazard detection system with the Honeywell Fusion and VisiOprime video management systems allows especially small premises to be secured in a professional manner. WINMAG Lite provides the user with almost all WINMAG plus standard functions. **In contrast to the full version, only one hazard detection control panel can be connected.** Support for WINMAG Lite must be purchased.

The user makes use of predefined programs, which can be adapted to the situation at hand on-site by means of a text editor.

The alarm stack known from previous WINMAG versions is replaced by the message display in the head bar in the form of icons. This new performance feature improves clarity for the user and thus allows faster reaction times in case of alarm.

In contrast to the full version, only one hazard detection control panel can be connected.

Hardware and software requirements:
Intel Dual Core or higher, min. 2 GB RAM (4 GB recommended), min. 80 GB available hard disk storage, XGA graphic card of min. 4 MB video memory, monitor of min. 1024x768 pixels, sound card with external loudspeakers, compatible with Windows XP Professional (SP3) 32-bit version, Windows Server 2003 32-/64-bit version, Windows Vista 32-/64-bit version, Windows Server 2008 32-/64-bit version (Foundation version not possible), Windows 7 32-/64-bit version, Internet Explorer from version 7.0.

CD control centre software WINMAG Lite



Application example

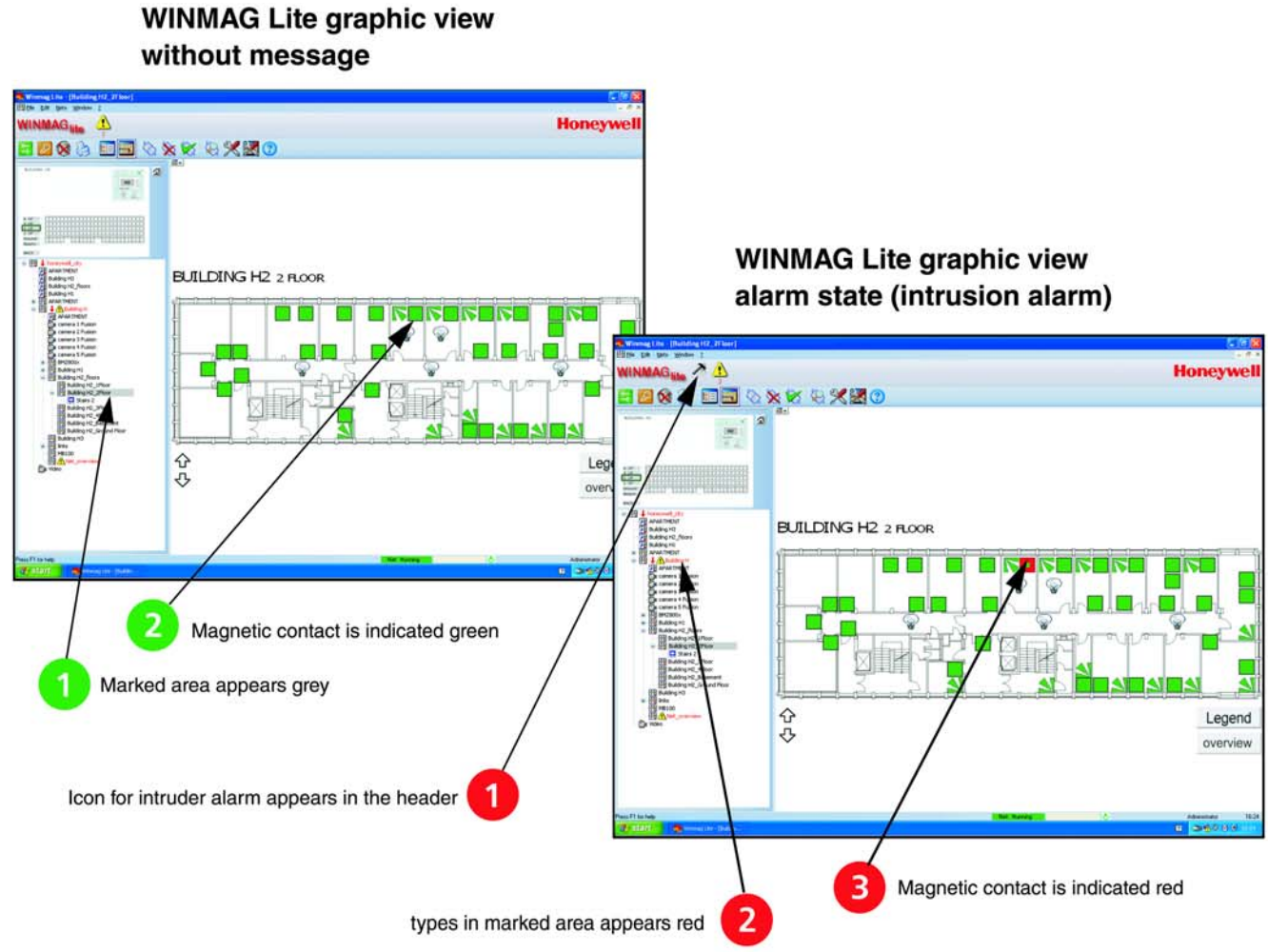
013636 WINMAG Lite upgrade to WINMAG plus full version

Honeywell UPGRADE Software

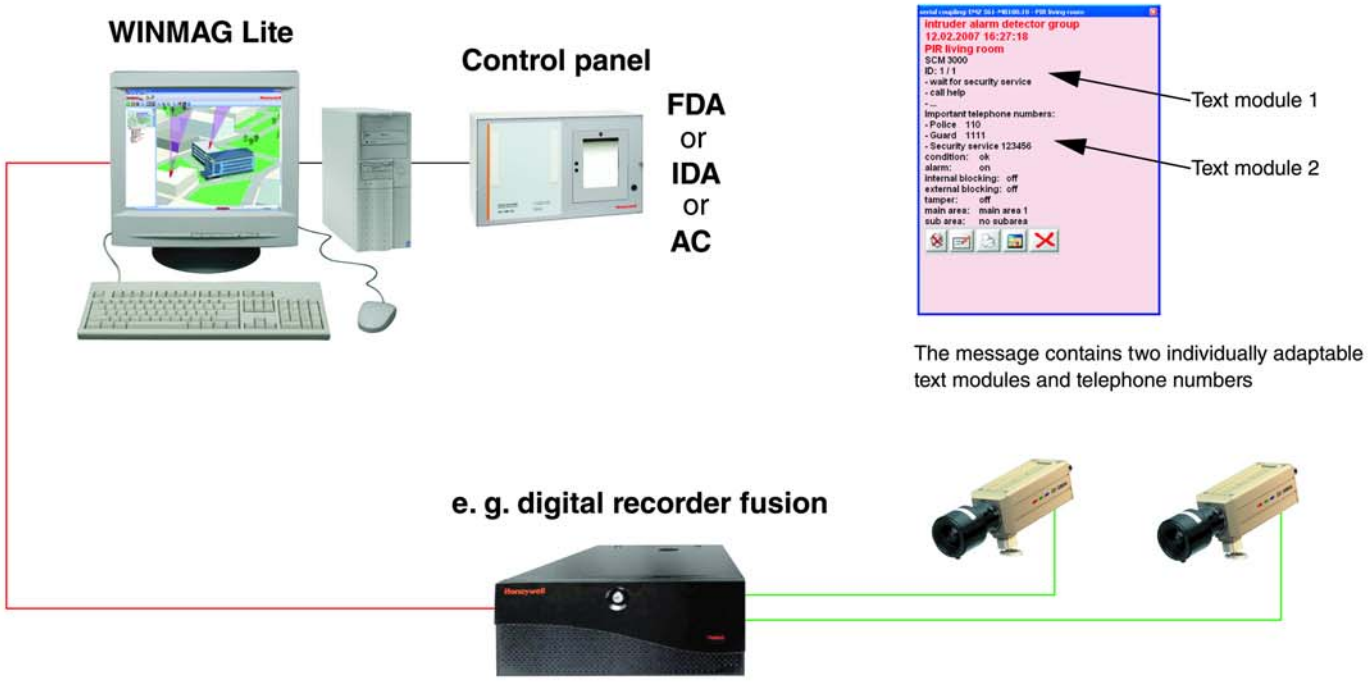
Once the system limits of WINMAG Lite have been reached, an upgrade to the full version is possible without problems, since both systems access a common database.

WINMAG plus options are not part of the upgrade and must be ordered separately.

Graphic display and WINMAG Lite application example



Example of WINMAG Lite System structure



012590 PanelPC with WINMAG touch

NEW



The PanelPC is a PC based display and operation terminal for WINMAG plus. It consists of a fully-featured PC with Touchscreen with an easy and comfortable user interface. The installed WINMAG Touch is able to process and display data from different networks, e.g. the Honeywell-IGIS-network, the Honeywell-IGIS-LOOP-network, the essernet® and IP-networks.

All system information of the connected fire and/or intruder panels are displayed on the PanelPC. Areas can be armed/disarmed and detector groups can be blocked/unblocked.

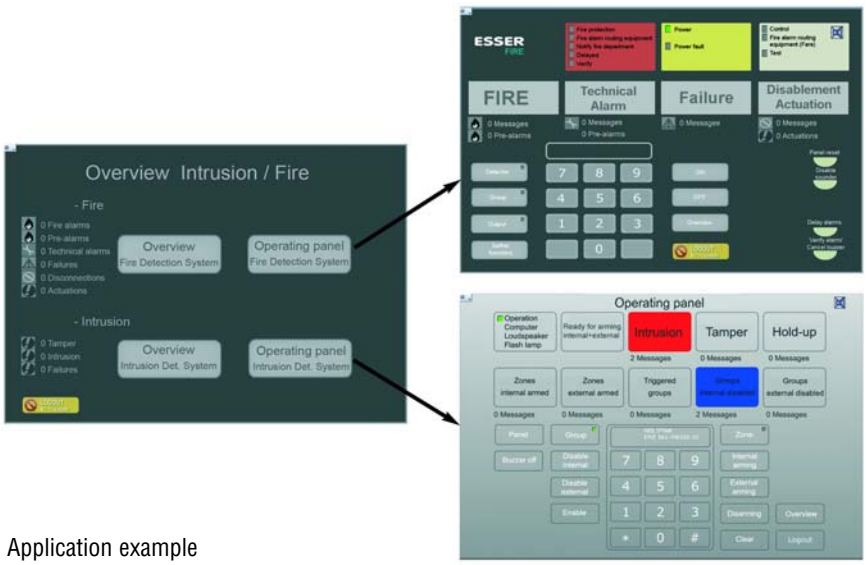
The WINMAG PanelPC can be operated in a WINMAG multi-user configuration as client, where it receives all data (data base, graphics, layers, SIAS-programs etc.) from the WINMAG plus server, which also distributes all status data and commands. In small premises the PanelPC can also be operated as stand-alone display and operating unit.

Performance Features

- Touch Panel Computer with 12,1" TFT monitor
- LCD display SVGA TFT 12,1"
- Resolution 800 x 600 pixel
- Compact housing with aluminium front cover
- Front cover protected as for IP 65
- Silent operation without fan
- Modern, user-friendly interface
- Operation through non-glare touchscreen
- Operation and connection **of up to four panels** over TCP/IP or serial
- Display of system informations of connected fire and intrusion panels
- User access rights to be individually set
- Connection of PC peripherals over PC interfaces and PC networking possible
- Item no. 012591 (WINMAG options Intrusion and Fire) included

Technical Data

Installation	Console- or wall mounting
Cooling	noiseless without fan
Dimensions (W x H x D)	345 x 265 x 60 mm
Weight	approx. 4,0 kg
Current consumption	27 W (typical)
Power supply	12 V DC - 5 A (60 W)
Class of protection	IP65 (Monitor-Front site)
Operating temperature range	0 to 45 °C
Storage temperature range	-20 to +70 °C
System hardware	
CPU	Celeron®M Processor 1,5 GHz
Internal memory	SO-DDR slot up to 1 GB
Memory	1 x Industry CompactFlash® with 8 GB
Audio inputs/outputs	1 x Mic in, 1x Line out
Ethernet	LAN Onboard dual 10/100 based Controller
Serial connections	2 x RS232 (COM1,2)
Connections	2 x USB 2.0
Keyboard	PS/2 6-pin Mini DIN
Connection video output	1 x VGA
LCD Monitor/Touchscreen	
Type	SVGA TFT LCD
Size	12,1 "
Resolution	800 x 600 pixel
Colours	262.144
Luminance	400 cd/m²
Contrast	500 : 1
Surface	non-reflecting coated



Application example

012591 WINMAG Touch inclusive option EMA and BMA

NEW

Honeywell Software

Software for use of PanelPC item no. 012590.
This option is included in item no. 012590.

Differences between the individual WINMAG versions

WINMAG Lite is a special economically priced variant of WINMAG plus with limited functions. It is desinged for visualize and control one single alarm panel.

The following table shows a detailed function difference comparation between those program variants.

Please follow the comparation to decide whether WINMAG Lite is suffcient for your requirements.
WINMAG Lite can be simply updated to WINMAG plus every time.

WINMAG touch is a special adapted version of WINMAG plus to easily be used on a touch Panel PC.
Attention: WINMAG touch cannot be upgraded to WINMAG plus full version, and it is only available in German now.

	WINMAG plus	**WINMAG Lite**	**WINMAG Touch**
Item no.	**013630 / 013631 + option**	**013635**	**012590 / 012591**
Interfaces	open, depending on the options	1 single alarm panel(any type) Fusion/Visioprime video recording panels	4 alarm panel(any type) + optional
Number of IO device per Object	32000	500	32000
I/O device settings	user defined	user defined	user defined
User definied I/O device type	yes	yes	yes
Event list	yes	yes	yes
Meta data	yes	yes	yes
Alarm stack	yes	no	not available
User account	unlimited, free to define	3 predefined, cannot be changed	unlimited
Toolbar	editable	predefined	editable
SIAS Program	configurierable, extendable	predefined, no user Program allowed	configurierable, extendable
SIAS-Langauge scope	complete	no user defined programming possible	complete
Alarm display	same as WINMAG Lite, with additional alarm programm, with alarm stack	counter und popups with user defined Texts	same as WINMAG Lite
Alarm condition	configurable	predefined	configurable
Graphic	severial formats - bmp, jpg, png, emf, wmf - AutoCAD-Integration (optional)	same as WINMAG plus, without - Multi-Monitor - Auto CAD	same as WINMAG plus, without - Multi-Monitor - Auto CAD
supported Monitor No.	4 from totally 8 (optional)	2	1
Max. no. of graphic	no limit	no limit	no limit
Max. no. of graphics to be displayed at the same time	48	13	12
Symbol actionen	configurable, user defined functions	predefined list	configurable, user defined functions
Create user defined symbole	yes	no	yes
Multiple station	yes	no	no
Clientele	yes	no	no
Time programm	yes	no	yes
State monitoring	yes	no	yes
Printer assignment	15	1	15
licensing	dongle with options for trades/functions	dongle without option	dongle with intrusion and fire, dptional video

IGIS-LOOP

Performance Features

- VdS approval
- Integrated hazard detection and information system
- Loop-type network structure with opposite galvanically separated RS-422 lines for maximum fail-safe
- Up to 16 loops of up to 64 users each can be linked
- Connection of several loops via routing paths serial/V.24 or via Ethernet (TCP/IP)
- Optionally BSI-compliant encryption on routing paths possible (RS-232/V.24 or Ethernet)
- Connection to IDP via I-BUS (IDCP MB48/100/256plus)
- Connection to FDCP via K-BUS (1024-F) or per connection kit (800X)
- Connection to WINMAG plus / WINFEM-PC via RS-232/V.24 or Ethernet TCP/IP
- Optionally LED control panel function for IDP via plug-in module, up to 2048 LEDs and 8 IDCP
- Networking of up to 3 remote control panels IDP MB48/100, with remote operation and remote control of detector groups
- Up to 1200 m between adjacent users possible, each user is simultaneously repeater
- LOOP circuits with telephone cable J-Y-(St)Y possible
- Parameterisation via WINFEM Advanced
- FLASH firmware update possible

Decentralised system structures allow an optimum adaptation to different circumstances of the premises. What is required in practice, is not only an exactly adapted technology, but also new standards in security and installation options.

This is why the IGIS-LOOP network is set up via a single hardware component. The IGIS-LOOP Controller is the central module for data exchange, communication and at the same time also the interface for all integratable Honeywell hazard detection systems.

The loop-type network structure of the security network allows an increased fail-safe and interference immunity of the system through complete monitoring of all segments in the loop. Simple faults (e.g. short circuit or interruption) have no effect on the network function. By providing detailed information, errors and faults in the loop can be detected and eliminated immediately. The dynamic user management allows users to be logged in and out during network operation without impairing the overall function of the network. Upon complete failure of a user, he/she will be disconnected from the system, while all other users within the IGIS-LOOP will remain fully functional.

IGIS-LOOP triple function: The network structure can be used to set up an actively communicating main and secondary control centre system in fire detection systems. This allows large premises-specific applications of decentralised structure to be achieved even without connection to a PC.

Moreover, IGIS-LOOP allows complex hazard detection systems to be set up and the organisation to be managed visually in a professional and convenient manner via a PC using WINMAG and remote parameterised via WINFEM.

The connection of hazard detection systems of a wide range of types (fire, intrusion, access control) is coordinated via the completely monitored and redundantly designed IGIS-LOOP network.Individual loop systems can be routed with one another via the IGIS-LOOP Controller. Thus, individual loops can be connected in a large mixed IGIS-LOOP security network and managed centrally from a WINMAG control centre.

The standardised RS-422 interface allows a simple change of the transmission medium (e.g. telephone cable (JYSTY), optical wave guide, online modem) between the individual IGIS-LOOP Controllers.

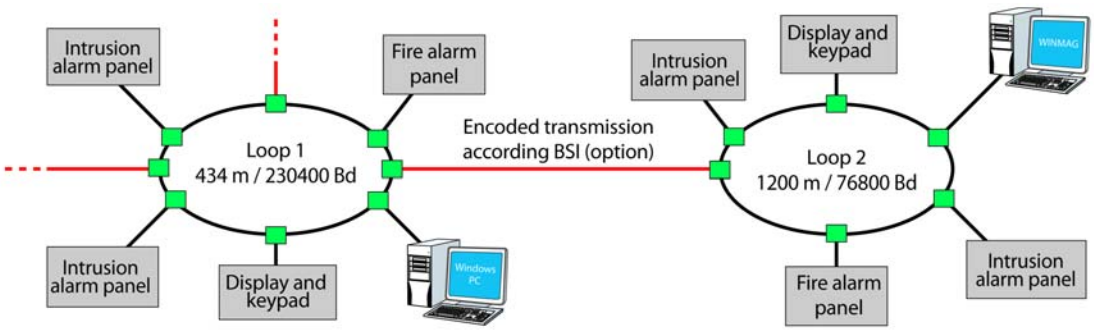
For secure transmission, encryption listed in TL 03400 according to BSI (Federal Agency for Security) TL 03418, is available for the routing path between routed loops.

List of control panels and software versions that can be used:

System 8000	from version 2.41 R 003
BMC 1024-F	V 5.00
IDS central unit 561-MB16	V 8.02
IDS central unit 561-MB100	V 8.02
ABIGA	V 1.03

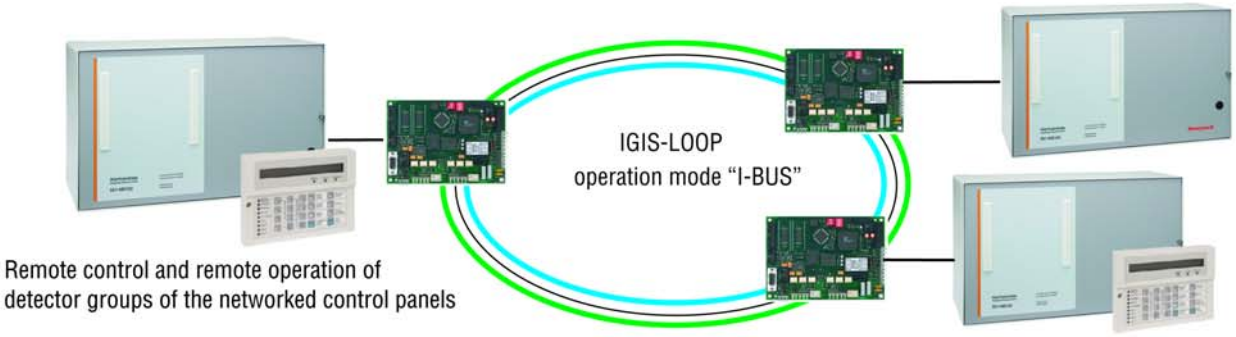
Technical Data

Data transmission speed	19200-307200 baud (adjustable)
Interface	RS-422 (IGIS-LOOP)
Interface	RS-232 (WINMAG/WINFEM-PC, routing path, 800X)
Interface	K-BUS (FDP 1024-F)
Interface	I-BUS (IDP 561-MB16/48/100/256)
Rated voltage	12 V DC
Operating voltage	10.5 V to 15 V DC
Current consumption	200 mA
Ambient temperature	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Housing ZG0 dimensions (W x H x D)	230 x 155 x 90 mm
Housing ZG2 dimensions (W x H x D)	350 x 300 x 152 mm

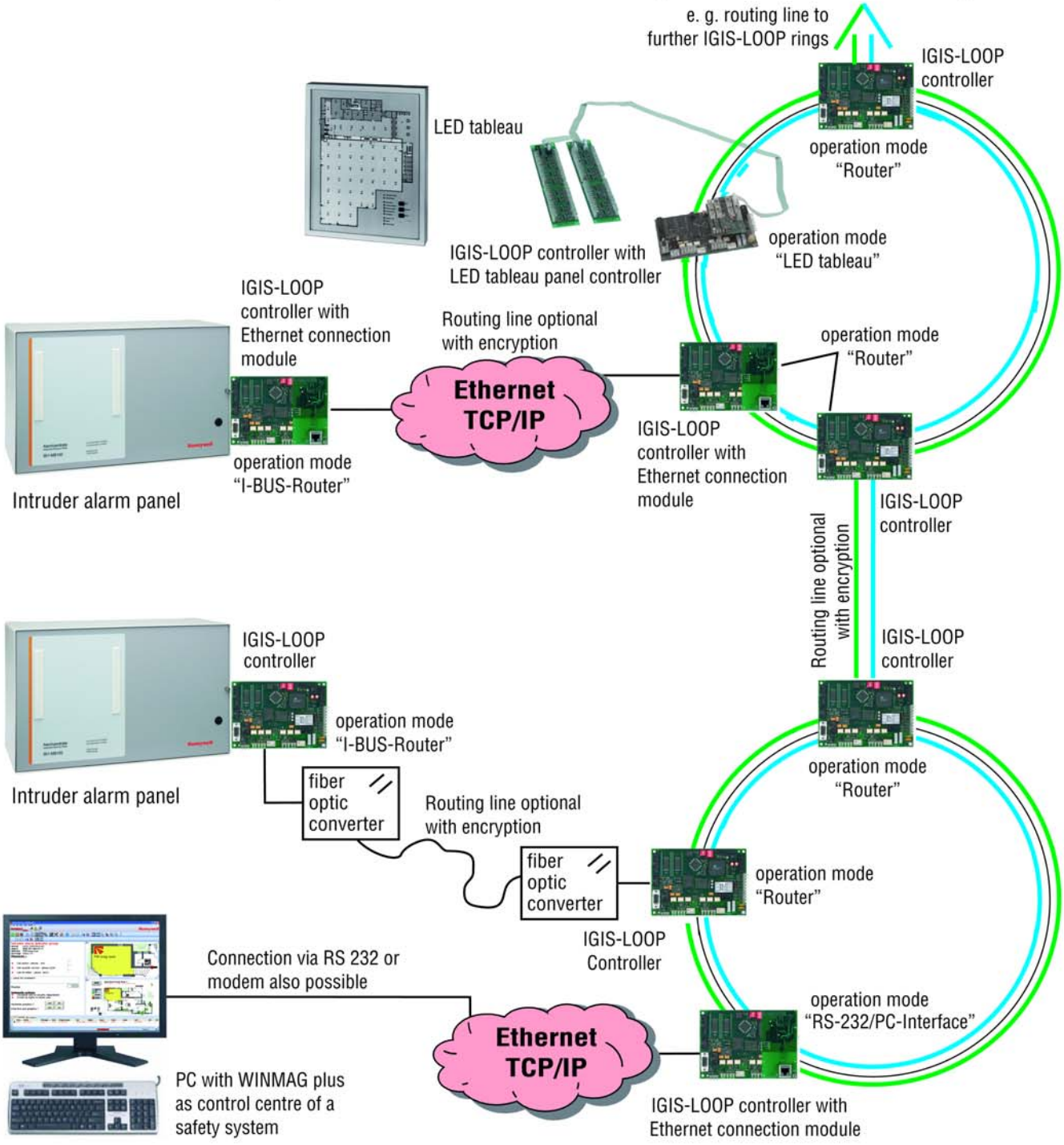


Application example

Networking of remote control panels IACP MB48/100

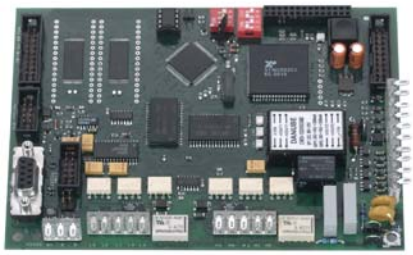


Connection of control panels to IGIS-LOOP and routing between IGIS-LOOP rings



IGIS-LOOP Controller

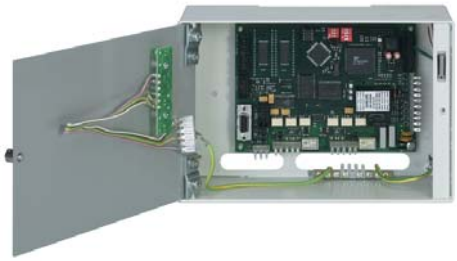
013330.10 IGIS-LOOP Controller



For EMT/BMT/ZK/PC.

Interface controller of universal use for integrating intrusion detection and fire detection control panels in the IGIS-LOOP. The controller allows WINMAG control centre PCs to be connected to the IGIS-LOOP via the integrated RS-232, thus setting up an extensive security system.

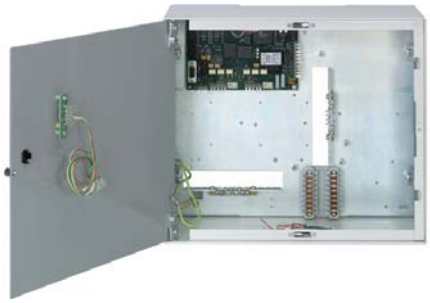
013331.10 IGIS-LOOP Controller (in housing ZG 0)



In housing ZG0. Housing with swivel door. Closure via seal.

No room for emergency power supply.

013332.10 IGIS-LOOP Controller (in housing ZG2)



In housing ZG 2. Housing with swivel door. Closure via seal.

Room for emergency power supply Art. No. 010686.01 or 010690.02 and 1 accumulator 018007.10.

Accessories

013336 Ethernet connection module



Ethernet connection module for IGIS-LOOP Controller 013330.10

The Ethernet connection module is an adapter pcb for the IGIS-LOOP Controller to include another Ethernet interface (TCP/IP). An IGIS-LOOP Controller extended by the Ethernet connection module allows a routing path to be set up via the Ethernet.

Moreover, an IGIS-LOOP can be connected to a WINMAG control centre of a security system via the Ethernet. Intrusion detection control panels can also be connected to an IGIS-LOOP directly via the Ethernet by means of the Ethernet connection module and the IGIS-LOOP Controller (I-BUS router operating mode).

Technical Data

Current consumption	70 mA

013337 Secure transmission according to BSI



System extension for secure data transmission according to BSI.

The encrypted transmission only takes place between 2 IGIS-LOOPS on the routing path or by means of an I-BUS router. This article is required once per each path encrypted according to BSI. A secure transmission according to BSI is not possible in combination with the IDCP 5008/5008C (no encryption for system 5008).
BSI = German Federal Office for Information Security.

Includes 2 EEPROMs and software

013069 V.24 connection adapter set



Required for programming or for I-BUS router via V.24.

Operator software

013596 IQ SystemControl

Honeywell Software

Performance Features

- Integration of several intruder alarm panels MB24, MB48, MB100
- Connection via analogue modem, ISDN, IGIS-LOOP and TCP/IP
- Arming / disarming and service tools via virtual operating unit
- Integrated, IACP independent access control function for doors operated by locking cylinders/electronic strike plates.
- IP transmission with or without encryption (AES, Chiasmus)
- Modern client/server system
- Server and client can run on different computers
- max. 512 data carriers
- Flexible room/time zone concept
- Rights for arming/disarming/control units/access/exit can be assigned separately
- Direct door control by simple mouse click
- Reasons for arming prevention can be displayed by simple mouse click
- Large event memory for up to 10 million entries
- containing detailed information (door, area, switching device, detector group, ID number, macro)
- Export possible as xls-, txt-, html- and xml-files
- Collection and administration of mifare DESFire data carriers
- Print options

Accessories:

029643 Upgrade to IQ MultiAccess 500 persons, incl. option connection to intrusion detection systems

013598 IQ User ControlCenter**
**One virtual operating unit is included in 013596. Only needed when additional operating units need to be operated simultaneously (e.g. on seperate computers)

IQ SystemControl replaces WINFEM User for intruder alarm control panels 561-MB24 / 561-MB48 / 561-MB100 from version 9.

For MB256 plus and MB control panels up to version 8, WINFEM User must still be used.

IQ SystemControl is based on the high-end software suite IQ MultiAccess and can therefore be easily upgraded to IQ MultiAccess. IQ SystemControl is a software that is very easy to use and therefore contains no programming options.

The integrated „virtual operating unit“ option (1x integrated, further optional) enables:

- arming / disarming
- switching on/off detector groups
- viewing alarm and event memory
- activating walking test
- starting macros
- maintenace functions

of all intruder alarm control panels connected to IQ SystemControl.

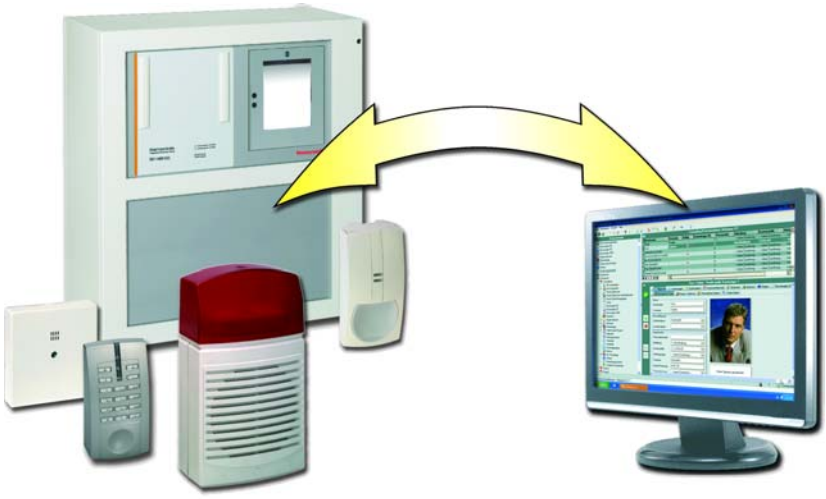
When connected to one or several IACP 561-MB24, 561-MB48 or 561-MB100, IQ SystemControl controls the data management for authorisations at IACP switching devices. They include data carriers, room/time zones and their authorisations for access functions, arming/disarming and control functions.

User entitlements are automatically adapted to VdS regulations via a “VdS switch”.

The connected IACP hardware will be detected and automatically configured. Existing master data of the intruder alarm control panel are transferred to IQ SystemControl where they can now be managed centrally.

Entries into the event memory can be evaluated in IQ SystemControl using all individual list adaptations. The technical integration of the unit is assisted by IQ SystemControl by supporting all existing remote access versions of the the intruder alarm control panel. The two systems can be coupled either by Ethernet (via TCP/IP), RDT (ISDN or analogue modem) or via IGIS-LOOP. In this way, the existing infrastructure can be used and extended without problems. IQ SystemControl is required for collection and administration of mifare DESFire EV1 data carriers (not possible with WINFEM). Independent of the intruder alarm control panel, IQ SystemControl can control doors operated by locking cylinders/electronic strike plates online or offline. For further details refer to chapter “wireless door systems”.

For ordering the end user data sheet is required.



013598 Option IACP User ControlCenter for PC for IQSC or IQMA

Honeywell Software

Option IACP-connection to IQ MultiAccess (029626) and IQ SystemControl (013596) contain one virtual operating unit each.
Further virtual IACP operating units (013598) are only required when additional operating units need to be operated simultaneously (e.g. on seperate computers).

For ordering the end user data sheet is required.

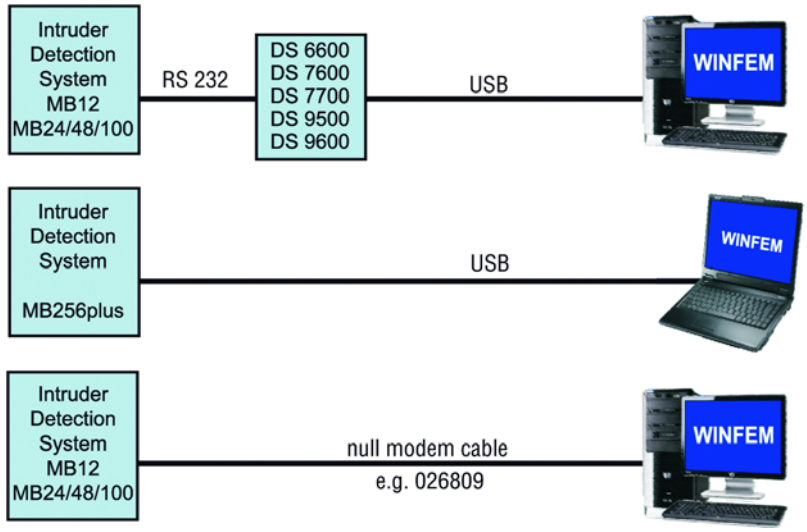
WINFEM software

Programming and diagnostic software WINFEM and WINFEM Advanced

Programming is the decisive factor of the economical installation of a hazard detection system. This requirement is met by the PC parameterisation software WINFEM or WINFEM Advanced in any respect. Clearly organised on-screen displays immediately show the current settings or guide logically through the entire programming. To archive the system programmings, they can be stored and can thus be retrieved whenever required. Likewise, remote maintenance, remote parameterisation and remote control can also be carried out via WINFEM or WINFEM Advanced.

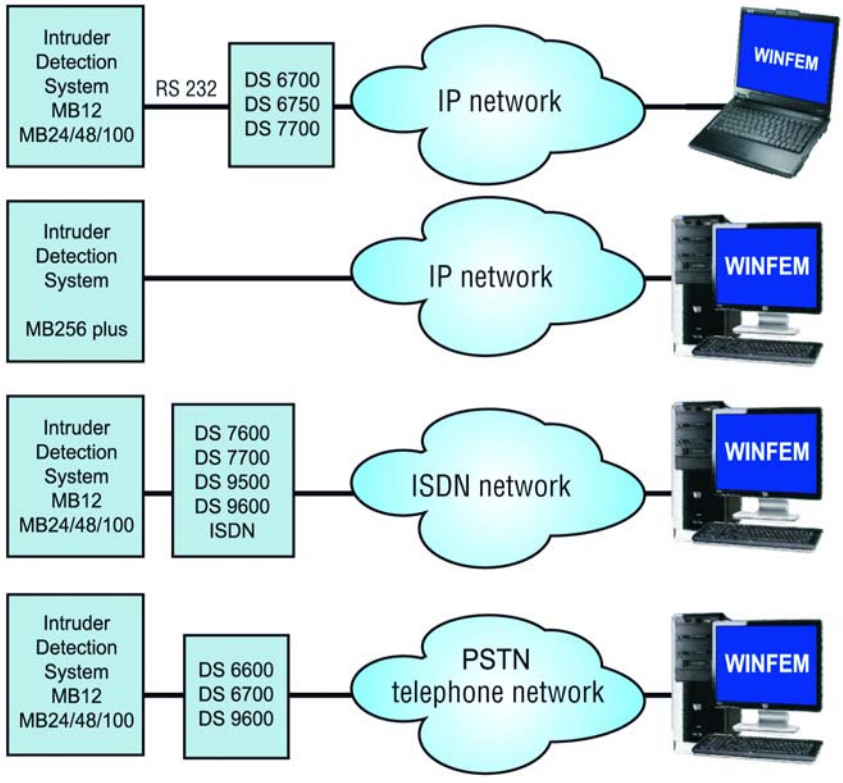
System configuration for direct control panel programming on-site: Hazard detection system including communication interface, for example USB, serial/V.24, frame BUS or BUS-2; PC adapter cable; PC/laptop containing the corresponding WINFEM or WINFEM Advanced software.

For the latest software, updates, firmware, etc., please go to the customer page of our website.



System configuration for remote maintenance, remote parameterisation and remote diagnosis: Hazard detection system including communication interface, for example frame BUS or BUS-2; ISDN dialler or DGA 2400 on the frame BUS or BUS-2; standard modem of 2400 baud* or ISDN controller on PC/laptop; PC/laptop containing the corresponding WINFEM or WINFEM Advanced software.

* We recommend the modems tested and approved by us.



013498 WINFEM Advanced parameterisation software



Programming software for intrusion detection control panels MB 12, HB24, MB24, HB48.10, MB48, MB100.10, MB256 plus and MB256 (from firmware V03) and for the IK3 conventional evaluating unit and the ISDN diallers DS 7600, DS 7700, DS 9500, DS 9600, DS 6600, DS 6700 and DS 6750.

Accessories:

026809	Zero modem cable
013467.10	USB adapter box (USB 1.1 compatible)

Performance Features

- Windows XP, Windows Vista 32-/64-bit version, Windows 7 32-/64-bit version
- Database for customers, premises and systems
- Operating unit emulation in different functionalities, depending on the type of connection

013552 WINFEM-AB 8 parameterisation software



Windows software for controlling and parameterising control panel series 100-AB8 via PC/laptop, locally and remote. Runs under Windows 95, Windows 98 and Windows Me.

Accessories:

013466	PC adapter cable V.24 / BUS-2 including 3-pin plug connector
013467.10	USB adapter box (USB 1.1 compatible)

Performance Features

- Existing programmings can be read out, modified and restored via WINFEM-AB
- Database with access protection
- Program printout possible
- PC/laptop can be docked on to the system as operating unit
- Comprehensive maintenance and troubleshooting possible

013595 WINFEM - User



WINFEM User is an efficient help for operating the intrusion detection control panels HB24/MB24, HB48/MB48, MB100 (up to V8) and MB256 plus on the user level.

The software uses the graphic options of a PC for display and operation.

It can be coupled either by modem, ISDN, serial interface, IGIS-LOOP or TCP/IP.

059000 EPROM update, German for IACP 561-MB8



059001 EPROM update, German for IACP 561-MB16



059002 **EPROM update, German for IACP 561-MB100**



059003 **EPROM update, German for IACP 561-MB256**



059004 **EPROM update, German for IACP 561-HB48**



059200 **Software update, German for DEZ 9000**



059201 **Software update, German for DEZ ISDN receiver module**



059202 **Software update, German for DEZ TELIM receiver module**



059203 **Software update, German for Datex-P receiver module**



059205 **EPROM update, German for DS 7500**



Accessories

013466 PC adapter cable V.24 / BUS-2



With 3-pin plug connector.

For use under Windows 98SE only.

013467.10 USB adapter box



This device is a converter from the USB interface (universal serial bus) of a PC to the BUS-2 or frame BUS and V.24 for PC without available serial COM interface. The adapter box meets the USB specification 1.1 for full-speed devices. If a PC has an available serial COM interface, the serial programming cable 026809 gives a quicker communication for control panel programming.

Mandatory required for BUS-2 or frame bus connection under Windows 2000, Windows XP, Windows Vista 32-/64-bit version, Windows 7 32-/64-bit version.

Notizen



MB control panel series / Compact control panels

- MB 12
- 561-MB24
- 561-MB48
- 561-MB100
- 561-MB256 plus
- 50-M5
- 100-A5
- 561-H8

List of main functions of central units

The intruder alarm control panels 561-MB have been designed for use in the private and small to large scale industry sectors and are suitable, depending on the type of control panel, for creating medium- to large-sized security systems. The control panels comply with the latest guidelines of the VdS risk class C for intrusion detection systems and with the VDE regulations 0833, Part 1 and Part 3 of Class 1, configuration type B.

Control panels 561-MB24, 561-MB48 and 561-MB100 are also certified for VdS risk class C for access control systems.
The programming of the control panels is done conveniently via a PC / laptop using the corresponding WINFEM software. Remote programming or remote control is also possible via WINFEM. Alternatively, can be done programming via operating unit.

Control panels					
	MB12	**561-MB24**	**561-MB48**	**561-MB100**	**561-MB256 plus**
Item no.	012820 (LCD); 012821 (LED) 012822 (Compact) 012823 (TouchCenter)	012830; 012831 (LCD); 012832 (LED); 012833 (LCD, DS, IK3); 012834 (TouchCenter, IK3)	012911	013201.10, 013202.10 013203.10, 013204.10 013208.10, 013209.10	013222.10, 013223.10 013224.10, 013225.10 013228.10, 013229.10
VdS class intrusion detection system	Kl. A	Class C	Class C	Class C [1]	Class C [1]
VdS approval no.	G111701	G103013	G105094	G193040	G106037
VdS class access control system	–	Class C	Class C	Class C [1]	–
VdS approval no.	–	Z105003	Z105011	Z105002	–
Detector groups	12	24	48	512	2048
Main zones / Sub zones	1/1	2/7	4/15	16/63	total 250
				64/15 [2]	
Arming devices	2	8	16	64	250
Programmable analog inputs	8	8	8, max. 24	8, max. 56	4, max. 1028
User codes	16	16	32	128	750
ID codes	32	32	128	512	1000
BUS-1 users	32	63	63, max. 315	63, max. 567	63, max. 2583
BUS-2 users	32	64	64, max. 128	64, max. 512	64, max. 704
RF devices	32	64	128	256	–
RF Panic Button	10	10	16	32	–
Extensions					
BUS-1 modules	–	–	1	2	10
BUS-2 modules	–	–	1	7	10
IGIS-LOOP	–	–	1	1	32
Transmission devices	1	2	2	2	32
BUS-2 operating units	16	16	24	64	50
BUS-2 graphic operating units	12	12	12	12	16
5-output modules	10	10	64	512	704
Operation features					
Texts for detector groups	12 x 40 characters	24 x 40 characters	48 x 40 characters	512 x 40 characters	2048 x 40 characters
Texts for zones	2 x 40 characters	8 x 40 characters	19 x 40 characters	79 x 40 characters	250 x 40 characters
Texts for inputs	255 x 40 characters	255 x 40 characters	255 x 40 characters	1000 x 40 characters	5000 x 40 characters
Texts for ID-cards	32 x 40 characters	32 x 40 characters	128 x 40 characters	512 x 40 characters	1000 x 40 characters
Room timezones	64	64	64	64	250
Links	10	10	10	50	4000
Link components	99	99	99	500	4000
Macros	20	20	20	100	600
Event memory	22000	22000	22000	22000	4000
Call numbers	8	8	8	8	8 per transmission device
Dialling sequences	4	4	4	4	4 per transmission device
Routine call	1	1	1	1	1 per transmission device
Terminals					
Conventional block lock	1	1	1, max. 3	1, max. 3	max. 250
RS-485 reader/operating unit	2	–	–	–	–
Acoustic alarm signalling device	2	2	2	2	2, max. 66
Optical alarm signalling device	1	1	1	1	1, max. 33
Printer connection	with WINFEM	with WINFEM	1	1	2
Programm. outputs +12 V DC	10	10	8, max. 24	8, max. 56	8, max. 1032
Programm. outputs 0 V	6	6	6, max. 12	6, max. 12	max. 1024
Relay 250 V AC/5 A	1	1	1	1	max. 128
Relay 24 V DC/1 A	1	1	1	1	4, max. 132

The specifications given refer to complete extensions and can differ, if several options are combined.
Note the current drain of the internal power supply unit! Operatation of additional peripherals requires external power supplies.
Legend: [1] = not for 19" version [2] = programmable from V13 via WINFEM

Intruder alarm control panel MB12

NEW

Performance Features

- 32 BUS-1 users and 32 BUS-2 users can be connected
- up to 1 main zone with 1 secondary zone can be defined
- 2 texts for zones of 40 characters each
- 1 to 12 detector groups (freely programmable)
- Sensitivity of the detector groups is programmable
- automatic adjustment of the detector groups
- 8 conventional detector groups inputs, 4 of which include an clearing/reset function
- 1 RS-485 Interface for connection of up to 2 readers Accentic, Classic, Insertic
- 1 block lock/external operating unit connection
- 2 BUS-1 connections
- 2 BUS-2 connections
- 1 additional BUS-2 connection for dialler/modem
- 10 active semiconductor outputs 12 V DC
- 6 active semiconductor outputs 0V
- 1 relay 230 V AC / 5 A
- 1 relay 24 V DC / 1 A
- Connections for 2 audible alarm devices and 1 optic alarm device
- 2 texts of 40 characters each for areas
- 12 detector group texts of 40 characters each
- freely programmable inputs and outputs
- 255 input texts of 40 characters each
- Up to 2 external switching devices
- 1 to 16 intelligent operating units on BUS-2
- simple operating units on BUS-1
- 16 operating codes
- 32 data carriers possible
- 32 texts for IDENT-KEY of 40 characters each
- Event memory for 22,000 entries
- selective standard programming possible
- integrated electronics for siren actuation
- 10 connections programmable
- 20 macros for special functions
- 64 room/time zones programmable
- Expandable by BUS-2 radio components (max. 32)
- Reason for arming prevention is displayed in the event memory (max. 5 reasons)
- max. 10 RF Panic Buttons usable
- Use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700
- Mounting of RFW 4000 in the central housing possible

The MB12 intrusion detection control panel has been designed for use in the private sector and corresponds to VdS class A intrusion detection and VDE-0833.

Many functions of the control panel are freely programmable via the plain text operating unit. Programming can be done comprehensively and conveniently via a PC in connection with the software package WINFEM Advanced which also supports the printing of the event meory log.

The control panel has an event memory for 22,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced

The control panel contains 8 conventional detector groups inputs. By incorporating the BUS-1 and BUS-2 users, a total of 12 detector groups can be obtained. The groups can be distributed over a maximum of 2 zones, allowing 1 main zone with max 1 secondary zone. Also the direct connection of up to 2 readers of the Accentic, Classic or Insertic range on the panel is possible.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% bis +10%
Mains frequency	50 Hz
Rated operating voltage	12 V DC
Rated operating voltage range	10,5 V bis 15V DC
Battery charging voltage	13,8 V DC
Current consumption at rated voltage	100 mA unscharf Gruppenanschlüsse offen, 1 mA pro Gruppenanschluss (mit 12,1 kOhm abgeschlossen), 18 mA Relais klein, 45 mA Relais groß
Battery charge current	max. 800 mA
Max. battery space	2 x 7,5 Ah oder 1 x 17 Ah
Continuous current drain	1,2 A max. (ohne ext. Signalgeber)
Current drain	2,0 A max. 3 Minuten (inkl. ext. Signalgeber)
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 30
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Dimensions (W x H x D)	415 x 279 x 96 mm
Weight	5,2 kg
Colour	light grey, similar to RAL 7035

Accessories:

013498	PC parameterization software WINFEM Advanced
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)
018007.10	Accumulator 12 V / min. 17 Ah, 4.8 mm plug
018004.10	12 V accumulator / capacity 6.5 Ah
012540 /.17	2 x 40-digit LCD operating unit, surface-mounted, including flap
012541 /.17	2 x 40-digit LCD operating unit, surface-mounted, excluding flap
012532 /.17	8-detector group compact operating unit with disabling unit, surface-mounted
012542 /.17	16-detector group disable and display module, surface-mounted
012544 /.17	16-detector group operating unit (10 detector groups can be disabled), surface-mounted
012548 /.17	16-detector group display module, surface-mounted
012575.10	Comfort Touch Colour operating unit
012577.10	TouchCenter BUS-2 graphic operating unit
010935	Compact operating unit for HB/MB24 control panels
057872.10 /.20	DS 9600 ISDN transmission device
057860	DS 6600 Analog transmission device
057650.10 /.20	DS 7600 ISDN transmission device
057651.10 /.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP auto dialler
057865	DS 6750 PSTN/IP-auto dialler
012835	Mechanical kit for MB24/MB12 for installing diallers

012820 IACP MB12 Bundle with LCD 012540

NEW



VdS **Approval G111701 (IDT), Class A**

With LCD operating unit 012540 resp. 012540.17.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and LCD operating unit, 2 x 40 digits (012540 /.17).

012821 IACP MB12 Bundle with LED 012544

NEW



VdS **Approval G111701 (IDT), Class A**

With LED operating unit 012544 resp. 012544.17.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and 10-detector group operating unit (012544 /.17).

012822 IACP MB12 Bundle with LED 010935

NEW



VdS **Approval G111701 (IDT), Class A**

With LED compact operating unit 010935.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and compact operating unit (010935).

012823 IACP MB12 Bundle with TouchCenter 012577.10

NEW



VdS **Approval G111701 (IDT), Class A**

With TouchCenter BUS-2 operating unit 012577.10.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

MB12 panel and TouchCenter BUS-2 operating unit (012577.10).

561-MB24

Performance Features

- 63 BUS-1 users and 64 BUS-2 users can be connected
- up to 2 main zones are possible
- up to 7 secondary zones can be defined
- 8 texts for zones of 40 characters each
- 1 to 24 detector groups (freely programmable)
- sensitivity of the detector groups is programmable
- automatic adjustment of the detector groups
- 8 conventional detector groups, 4 of which include an clearing function
- 1 block lock/external operating unit connection
- 2 BUS-1 connections
- 2 BUS-2 connections
- 1 additional BUS-2 connection for dialler/modem
- 10 semiconductor outputs active 12 V DC
- 6 semiconductor outputs active 0V
- 1 relay 230 V AC / 5 A
- 1 relay 24 V DC / 1 A
- connections for 2 acoustic signalling devices and 1 optical signalling device
- 8 zone texts of 40 characters each
- 24 detector group texts of 40 characters each
- freely programmable inputs and outputs
- 255 input texts of 40 characters each
- 1 to 8 external switching devices
- 1 to 16 intelligent operating units on BUS-2
- simple operating units on BUS-1
- 16 operating codes
- 32 data carriers possible
- 32 texts for IDENT-KEY of 40 characters each
- event memory for 22,000 entries
- selective standard programming possible
- integrated electronics for siren actuation
- 10 links programmable
- 20 macros for special functions
- approval for Austria (VSÖ class WS)
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 64)
- extensive access control functionality (multiple person AC, etc.)
- reason for arming prevention is displayed in the event memory (max. 5 reasons)
- max. 10 RF Panic Buttos usable
- Use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700
- Mounting of RFW 4000 in the central housing possible

The 561-MB24 intruder alarm control panel is designed for use in the private and small scale industry sectors and corresponds to VdS class C intrusion detection and access control systems, VDE 0833 and in Austria to VSÖ class WS.

Many functions of the control panel are freely programmable via the plain text operating unit. Programming can be done comprehensively and conveniently via a PC in connection with the software package WINFEM Advanced. For the management of the data carrier authorisations, IQ MultiAccess and IQ SystemControl are available.

The control panel has an event memory for 22,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced or IQ MultiAccess / IQ SystemControl. A connected printer allows the event memory to be printed out continuously or when required.

The control panel contains 8 conventional detector groups. By incorporating the BUS-1 and BUS-2 users, a total of 24 detector groups can be obtained. The groups can be distributed over a maximum of 8 zones, allowing the following main/secondary zone structures:

- 1 main zone containing a maximum of 7 secondary zones;
- 2 main zones containing a total of no more than 6 secondary zones

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC/ -15% to +10%
Mains frequency	50 Hz
Rated operating voltage	12 V DC
Rated operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed open detector group connections, 1 mA per detector group connection (terminated with 12.1 kOhm), 18 mA small relay, 45 mA large relay
Battery charge current	max. 800 mA
Max. battery space	2 x 7.5 Ah or 1 x 17 Ah
Continuous current drain	1.2 A max. (w/o external signalling devices)
Current consumption	2.0 A max. 3 minutes (external signalling devices included)
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	415 x 279 x 96 mm
Weight	5.2 kg
Colour	light grey, similar to RAL 7035

Accessories:

013498	PC parameterization software WINFEM Advanced
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)
018007.10	Accumulator 12 V / at least 17 Ah, connection 4.8 mm plug
018004.10	12 V accumulator / capacity 6.5 Ah
012540 /.17	2 x 40-digit LCD operating unit, surface-mounted, including flap
012541 /.17	2 x 40-digit LCD operating unit, surface-mounted, excluding flap
012532 /.17	8-detector group compact operating unit with disabling unit, surface-mounted
012542 /.17	16-detector group disable and display module, surface-mounted
012544 /.17	16-detector group operating unit (10 detector groups can be disabled), surface-mounted
012548 /.17	16-detector group display module, surface-mounted
012575.10	Comfort Touch Colour operating unit
012577.10	TouchCenter BUS-2 graphic operating unit
010935	Compact operating unit for HB/MB24 control panels
013596	User software IQ SystemControl
057872.10 /.20	DS 9600 ISDN transmission device
057860	DS 6600 Analog transmission device
057650.10 /.20	DS 7600 ISDN transmission device
057651.10 /.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
012835	Mechanical kit for MB24 for installing diallers

012830 IACP 561-MB24



VdS **Approval** **G103013 (IDT), Class C; Z105003 (AC), Class C; VSÖ W 031210/86 E**

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

Computer/connection pcb 011890.01 with integrated power supply/charging unit, metal housing.

012831 IACP 561-MB24 “bundle LCD”



VdS **Approval** **G103013 (IDT), Class C; Z105003 (AC) Class C; VSÖ W 031210/86 E**

With LCD operating unit.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

561-MB24 panel (012830) and LCD operating unit, 2 x 40 digits (012540.17).

012832 IACP 561-MB24 “bundle LED”



VdS **Approval** **G103013 (EMT), Class C; Z105003 (Access Control) Class C; VSÖ W 031210/86 E**

With LED operating unit.

Max. accumulator space 2 x 6.5 Ah or 1 x 17 Ah.

561-MB24 panel (012830) and 10-detector group operating unit (012544.17).

012833 IACP 561-MB24 “bundle LCD/DS/IK3”

NEW



VdS **Approval** **G103013 (IDT), Class C; Z105003 (AC) Class C; VSÖ W 031210/86 E**

With LCD operating unit, DS 9600 ISDN transmission device with AWAG function and IK3 evaluation unit BUS-2.

Max. battery space for 2 x 6,5 Ah or 1 x 17 Ah.

561-MB24 panel (012830); DS 9600 ISDN transmission device (057872.10 /.20); IK3 evaluation unit BUS-2 (023312.17); LCD operating unit, 2 x 40 digits (012540 /.17).

012834 IACP 561-MB24 “bundle Touch/IK3”

NEW



VdS **Approval** **G103013 (IDT), Class C; Z105003 (AC) Class C; VSÖ W 031210/86 E**

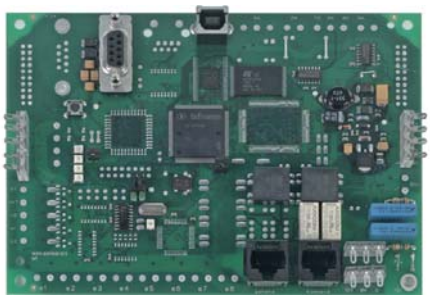
With TouchCenter BUS-2 operating unit and IK3 evaluation unit BUS-2.

Max. battery space for 2 x 6,5 Ah or 1 x 17 Ah.

561-MB24 panel (012830); TouchCenter BUS-2 operating unit (012577.10); IK3 evaluation unit BUS-2 (023312.17).

Digital transmission

057872.10 DS 9600 ISDN transmission device with dialler function for MB24



VdS **Approval G107802 (IDT), transmission device**

The DS 9600 is operated in the ISDN network. It is used for digital transmission of technical faults, hazard messages and emergency calls and for remote parameterisation, remote maintenance and remote diagnosis of the connected intrusion detection system 561-MB24.

The performance features for the remote control functions and the remote parameterisation require an ISDN multipoint interface. A point-to-point connection having the desired remote maintenance functionality requires, for example, the use of the transmission device DS 7600.

It is connected to ISDN-capable alarm receivers, for example DEZ 9000 or to TELIM-compatible alarm receivers. It can be used for connecting IQ MultiAccess and IQ SystemControl.

It is equipped with an integrated dialler and paging device and allows remote control functions and remote inquiries to be executed from any phone or mobile phone. It uses language-controlled user guidance as known from operating a mailbox.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 9600. Speech memories containing previously prepared standard texts for 9 transmission channels are available.

When the dialler is connected to the MB control panel via a serial interface, its 100 output criteria can be assigned to the 9 transmission channels as desired.

Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

For the use of the DS 9600 as integration module in the intrusion detection control panel 561-MB24, the IDCP RS-232 interface with an extended range of functions is available. This makes it possible to operate several connections in parallel via ISDN. The USB interface of the transmission device can be used in this connection for programming the control panel.

The transmission device DS 9600 also has a BUS-2 interface. This enables its integration into older control panel systems of the HB24 series via a compatibility mode (with a reduced range of functions).

The application-specific data are conveniently programmed via WINFEM Advanced.

Performance Features

- ISDN B-channel VdS 2465
- ISDN B-channel Telim
- ISDN B-channel plain text transmission (dialler function)
- SMS via ISDN
- e* cityruf (alphanumeric or tone only)
- Voice transmission via standard texts and DTMF detection without additional extensions
- Up to 4 individual texts of 3 sec. each can be voice recorded by ISDN telephone
- VdS approval

Additional performance features of ISDN multipoint configuration:

- Remote control options in conjunction with voice and telephone keypad (DTMF detection)
- Modem function for remote access to the connected hazard detection control panel
- Extensive remote service and remote diagnosis options
- Can be used for connecting IQ MultiAccess and IQ SystemControl

Technical Data

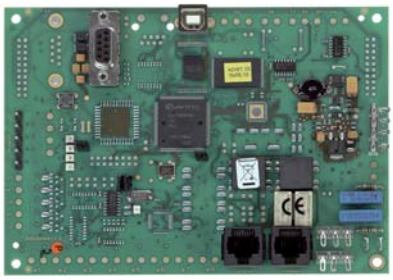
Rated operating voltage	12 V DC
Operating voltage range	10,5 V DC bis 15 V DC
Current consumption	100 mA
Environmental class as per VdS	II
Operating temperature range	-10 °C bis +50 °C
Storage temperature range	-25 °C bis +70 °C
Dimensions PCB (L x W)	158 x 112 mm

ISDN connecting cable.
Serial connecting cable to intrusion detection control panel.
Mechanical kit for installing diallers (012835).

Phase-out date 30.04.2012.

057872.20 DS 9600 ISDN transmission device with dialler function for MB24

NEW



VdS **Approval G107802 (IDT), transmission device**

561-MB48

Performance Features

- in its standard configuration, 63 BUS-1 users and 64 BUS-2 users can be connected
- modular extension possible
- up to 4 main zones are possible
- up to 15 secondary zones can be defined
- 1 to 48 detector groups (freely programmable)
- automatic adjustment of the detector groups
- sensitivity of the detector groups programmable
- freely programmable inputs and outputs
- 48 detector group texts
- 255 input texts
- 1 to 16 external switching devices
- 1 to 24 intelligent operating units on BUS-2
- 32 operating codes
- 128 data carriers possible
- 22,000 events in the event memory
- 4 x 10 events in the alarm memory
- standard programming for certain program parts possible
- integrated electronics for siren actuation
- 8 conventional detector group inputs / 4 of which include a clearing device
- max. 24 conventional detector group inputs
- 1 block lock/external operating unit connection
- 2 non-reactive BUS-1 connections for a total of 63 bus addresses
- 2 non-reactive BUS-2 connections for a total of 64 bus addresses
- 1 BUS-2 connection for internal transmission device/modem
- 10 semiconductor outputs active 12 V DC
- 6 semiconductor outputs active 0 V
- 1 relay 230 V AC / 5 A
- 1 relay 24 V AC / 1 A
- 1 connecting plug for extension modules
- parallel printer connection
- connections for 2 acoustic signalling devices and 1 optical signalling device
- IGIS can be integrated
- max. 16 RF Panic Button usable
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 128)
- extensive access control functionality (multiple person AC, etc.)
- reason for arming prevention is displayed in the event memory (max. 5 reasons)
- max. 16 RF Panic Buttons usable
- Use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700

The intruder alarm control panel 561-MB48 complies with the latest guidelines of the VdS risk class C for intrusion detection and access control systems as well as with the VDE regulations 0833.

Many functions of the control panel are freely programmable via the plain text operating unit. Programming can be done comprehensively and conveniently via a PC in connection with the software package WINFEM Advanced. For the management of the data carrier authorisations, IQ MultiAccess and IQ SystemControl are available.

The control panel has an event memory for 22,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced or IQ MultiAccess. A connected printer allows the event memory to be printed out continuously or when required.

By incorporating conventional detectors and the BUS-1 and BUS-2 users, a total of 48 detector groups can be obtained. The detector groups can be distributed over a maximum of 16 zones, allowing the following main/secondary zone structures: 1 main zone with max. 15 secondary zones; 2 main zones with a total of max. 14 secondary zones; 3 main zones with a total of max.13 secondary zones; 4 main zones with a total of max. 12 secondary zones.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Mains frequency	50 Hz
Power consumption	36 VA
Rated operating voltage	12 V DC
Operating voltage range	10,5 V to 15 V DC
Battery charging voltage	13,8 V DC
Current consumption at rated voltage	100 mA disarmed, detector group connections open, 1 mA detector group connections terminated with 12,1 kOhm terminating resistor, 18 mA relay small, 45 mA relay large
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection DIN 40 050	IP 30
Dimensions (W x H x D)	500 x 300 x 210 mm
Colour of housing	greywhite, similar to RAL 9002
Colour of front plate	signal grey, similar to RAL 7004

Accessories:

013100.04	16-detector group input module type A	057871.20	DS 9500 ISDN transmission device
013320.03	16-detector group input module type B	057650.10/.20	DS 7600 ISDN transmission device
013100.05	2-block lock connection / 10-detector group input module	057651.10/.20	DS 7700 ISDN/IP transmission device
		057864	DS 6700 PSTN/IP transmission device
013220.11	BUS-1 module	057865	DS 6750 PSTN/IP transmission device
013220.07	BUS-2 module	012540 /.17	2 x 40-digit LCD operating unit, surface-mounted including flap
013220.07.10	BUS-2 loop module		
013330.10	IGIS-LOOP Controller	012541 /.17	2 x 40-digit LCD operating unit, surface-mounted excluding flap
013100.08	Relay extension module		
070478	Group relay card	012532 /.17	8-DG compact operating unit with disabling unit, surface-mounted
013220.14	Connection PCB for table-top printers		
013100.10	Connecting cable set 40 mm/250 mm	012542 /.17	16-DG disable and display module, surface-mounted
013100.11	Connecting cable 400 mm		
013100.12	Connecting cable 250 mm	012544 /.17	10-DG operating unit with disabling unit, surface-mounted
010686.01	Power supply/charger unit 12 V DC / 17 Ah	012548 /.17	16-DG display module, surface-mounted
		012575.10	Comfort Touch Colour operating unit
010690.01	Power supply/charger unit 12 V DC / 32 Ah	012577.10	TouchCenter BUS-2 graphic operating unit
		010935	Compact operating unit for control panel HB48/MB48
010690.02	Power supply/charger unit 12 V DC / 40 Ah		
		013498	PC parameterization software WINFEM Advanced
012170	Power supply/charger unit 12 V DC / 130 Ah		
		013596	User software IQ SystemControl
050019	Distributor block	026809	Serial programming cable
028050	VdS housing lock	013467.10	USB adapter box (USB 1.1 compatible)
057860	DS 6600 Analog transmission device		

012911 **IACP 561-MB48 in ZG3.1**



VdS **Approval** **G105094 (IDT), Class C**
Z105011 (AC), Class C
VSÖ W 070427/17 E

Technical Data

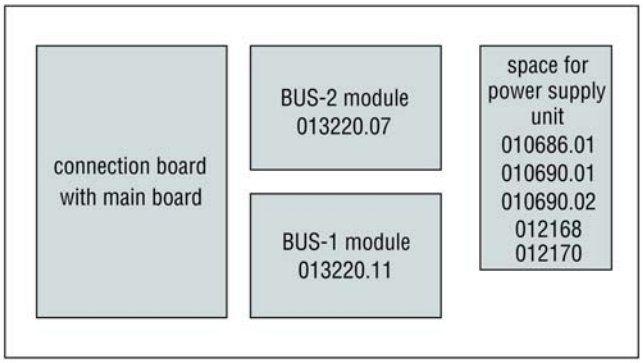
Dimensions (W x H x D)	500 x 300 x 210 mm

Max. accumulator space 2 x 17 Ah or 1 x 24 Ah; space for 2 options; space for power supply unit.

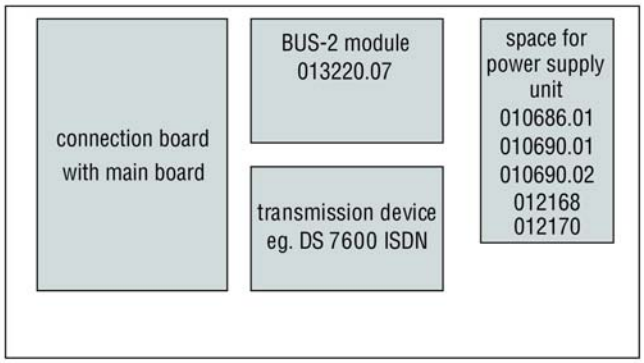
Housing ZG 3.1; front plate 6 HU; computer PCB 011910.10.01; connection PCB 011910.02.

Extension examples intruder alarm control panel 561-MB48

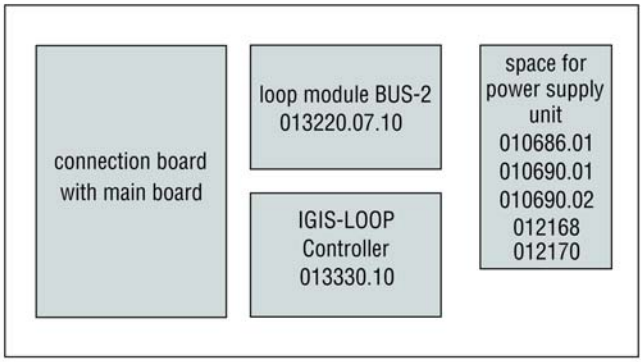
315 BUS-1 devices
128 BUS-2 devices



63 BUS-1 devices
128 BUS-2 devices
communication modules



63 BUS-1 devices
128 BUS-2 devices (max. 64 of them via loop)
Access to the IGIS-LOOP network



561-MB100

Performance Features

- in its basic configuration, 63 BUS-1 users and 64 BUS-2 users can be connected
- modular extension possible
- up to 16 main zones are possible
- up to 63 secondary zones can be defined
- 512 detector groups can be programmed
- 8 conventional detector group inputs
- 1 block lock connection
- up to 567 BUS-1 users can be connected
- IGIS can be integrated
- 64 arming devices can be programmed
- up to 512 BUS-2 users can be connected
- suitable for police emergency calls
- available with integrated printer
- operator guidance through plain text display
- 5 user levels of authorisation
- 128 Access codes
- up to a maximum of 56 detector groups in conventional connection technology or a maximum of 512 detector groups with BUS-1 and BUS-2 users
- automatic adjustment of the detector groups
- freely programmable inputs and outputs
- allocation of several group inputs to one detector group
- standard programming for certain program parts possible
- sensitivity of the detector groups is programmable
- automatic maintenance interval display
- event memory for 22,000 entries
- 512 data carriers possible
- transmission devices can be integrated
- 64 room/time zones programmable
- expandable by BUS-2 radio components (max. 256)
- extensive access control functionality (Multiple person AC, etc.)
- reason for arming prevention is displayed in the event memory (max. 5 reasons)
- max. 32 RF Panic Buttons usable
- Use of the smartphone-app in conjunction with the transimission device DS 6700, DS 6750 or DS 7700

The intruder alarm control panel 561-MB100 complies with the latest guidelines of the VdS risk class C for intrusion detection and access control systems and with the VDE regulations 0833.

The corresponding modules allow a total of 512 detector groups to be realised, allowing up to 56 conventional detector group inputs. Of these, several detector group inputs and/or BUS users can be allocated to one detector group. This makes it possible to establish logical relationships of the individual detector groups to the object-specific requirements. A later extension to a maximum of 16 main zones is possible by means of the modular system. The detector groups can be distributed among a maximum of 64 zones.

The programming of the control panel can be done conveniently via a Windows PC using the software WINFEM Advanced. Remote programming and remote diagnostics are also possible. Alternatively, many functions can be programmed via an operating unit. For the management of the data carrier authorisations, IQ MultiAccess and IQ SystemControl are available.

The control panel has an event memory for 22,000 events. The event memory can be displayed via LCD and graphic operating units and via WINFEM Advanced or IQ MultiAccess / IQ SystemControl. A connected printer allows the event memory to be printed out continuously or when required.

The system is prepared for connecting additional devices, such as printers, IGIS components, transmission devices, more powerful power supplies and relay additional boards.

Since the 561-MB100 is equipped with the option of changing the language for operating and display texts, it can also be widely used internationally. Many language versions have already been developed and implemented in the control panel.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Mains frequency	50 Hz
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption at rated voltage	100 mA disarmed, detector group connections open, 1 mA detector group connection with 12.1 kOhm terminal resistor, 5 mA per LED diplay, 18 mA relay small, 45 mA relay large
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection DIN 40 050	IP 30
Housing ZG 3.1 dimensions (W x H x D)	500 x 300 x 210 mm
Housing ZG 4 dimensions (W x H x D)	580 x 640 x 300 mm
Colour of housing	greywhite, similar to RAL 9002
Colour of front plate	signal grey, similar to RAL 7004

Accessories

	Conventional configuration
013100.05	2-Block lock /10-detector group input module
013100.04	16-detector group input module type A
013320.03	16-detector group input module type B
	Housing
050055	19" housing ZG 4
050057	19" housing ZG 6
013106	Mounting plate for connection PCB and options in 19" housings
013118	19" dummy plate 6 HE, signal-grey
013119	19" dummy plate 3 HE, signal-grey
	Relay extension
013100.08	Relay extension for IACP 561-MB100, 4 relays 250 V/5A and 2 slots
070478	Group relay card, 4 relays 24V/1A
	Printer accessories
013220.14	Connection PCB for table-top printers
013900	40-digit alphanumeric heat transfer printer, motor-driven coiling
	BUS-1 extension to 567 users
013220.11	BUS-1 module for a max. of 252 users
	BUS-2 extension to 512 users
013220.07	BUS-2 module for 64 users
	BUS-2 loop extension
013220.07.10	BUS-2 loop module for 64 users
	IGIS configuration
013330.10	IGIS-LOOP Controller
	LED panel activation module
013335	for IGIS-LOOP Controller
	Ethernet connection module
013336	Adapter card for IGIS-LOOP Controller to include another Ethernet interface
	Connecting cable
013100.10	Connecting cable set 40 mm / 250 mm
013100.12	Connecting cable 250 mm
013100.11	Connecting cable 400 mm
013100.14	Connecting cable 650 mm
013100.13	Connecting cable 1000 mm

	Power supply/charger units
010686.01	Power supply/charger unit 12 V DC / 17 Ah
010690.01	Power supply/charger unit 12 V DC / 32 Ah
010690.02	Power supply/charger unit 12 V DC / 40 Ah
012168	Power supply/charger unit 12 V DC / 80 Ah
012170	Power supply/charger unit 12 V DC / 130 Ah
050019	Distributor block
	VdS kit for commercial use
028050	VdS housing lock
	RDT/transmission devices
057860	DS 6600 Analog transmission device
057871.20	DS 9500 ISDN transmission device
057650.10/.20	DS 7600 ISDN transmission device
057651.10/.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
	BUS-2 operating units
012540 /.17	2 x 40-digit LCD operating unit, including flap
012541 /.17	2 x 40-digit LCD operating unit, excluding flap
012532 /.17	8-DG compact operating unit with disabling unit
012542 /.17	16-DG disable and display module
012544 /.17	10-DG operating unit with disabling unit
012548 /.17	16-DG display module
012546 /.17	Flush-mounted mounting kit for: 012540 / .17, 012541 / .17, 012532 / .17, 012542 / .17, 012544 / .17, 012548 / .17
012575.10	Comfort Touch Colour operating unit
012577.10	TouchCenter BUS-2 graphic operating unit
	WINFEM control panel programming
013498	PC parameterization software WINFEM Advanced
026809	Serial programming cable
013467.10	USB adapter box (USB 1.1 compatible)
013596	User software IQ SystemControl

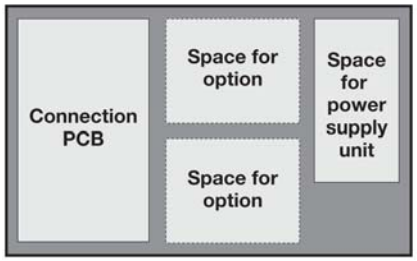
013201.10 IACP 561-MB100 in ZG3.1



VdS **Approval** **G193040 (IDT), Class C, Z105002 (AC), Class C; VSÖ W 031210/05 E**

Space for 2 options; space for power supply unit; max. accumulator space 2 x 17 Ah or 1 x 24 Ah.

Housing ZG 3.1; front plate 6 HU; computer PCB 013200.10.01; connection PCB 011910.02.



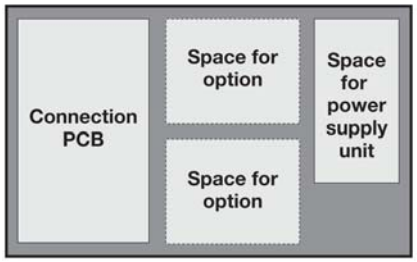
013202.10 IACP 561-MB100 in ZG3.1, incl. printer



VdS **Approval** **G193040 (IDT), Class C; Z105002 (AC), Class C; VSÖ W 031210/05 E**

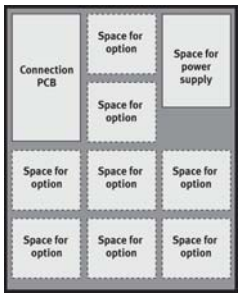
Space for 2 options; space for power supply unit; max. accumulator space 2 x 10 Ah or 1 x 24 Ah.

Housing ZG 3.1 front plate 6 HU with integreated heat transfer printer; computer PCB 013200.10.01; connection PCB 011910.02.



013203.10 IACP 561-MB100 in ZG4





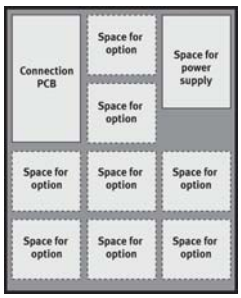
VdS **Approval** **G193040 (IDT), Class C; Z105002 (AC), Class C; VSÖ W 031210/05 E**

Space for 8 options; space for power supply unit; max. accumulator space 2 x 65 Ah.

Housing ZG 4 front plate 6 HU; lower dummy plate, 6 HE; computer PCB 013200.10.01; connection PCB 011910.02.

013204.10 IACP 561-MB100 in ZG4, incl. printer





VdS **Approval** **G193040 (IDT), Class C; Z105002 (AC), Class C: VSÖ W031210/05 E**

Space for 8 options; space for power supply unit; max. accumulator space 2 x 65 Ah.

Housing ZG 4 front plate 6 HU with integrated heat transfer printer; lower dummy plate, 6 HE; computer PCB 013200.10.01; connection PCB 011910.02.

013208.10 IACP 561-MB100, 19", incl. LCD operating unit



Front plate 6 HU with integrated operating unit; computer PCB 013200.10.01; connection PCB 011910.02.

013209.10 IACP 561-MB100, 19", incl. LCD operating unit and printer



Front plate 6 HU with integrated operating unit and heat transfer printer; computer PCB 013200.10.01; connection PCB 011910.02.

013106 Rear wall mounting plate for 19" rear wall mounting

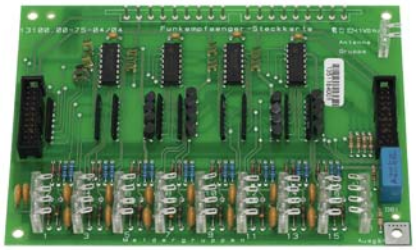


12 HU

Modules for 561-MB48 and MB100

A modular extension has the advantage that the security system can be optimally adapted to the building conditions. This also facilitates a later system extension. Different modules of identical dimensions are available. The rear walls of the individual housing types are designed for plug-in of these modules. The arrangement of the modules within the housing can be done individually.

013100.04 16-detector group input module type A



The module contains 16 group inputs with a protective circuit, 12 of which are provided with clearing transistors.

The reference voltage is adjustable. Each group is adjusted automatically to the terminating resistor. The response sensitivity of the groups is adjustable.

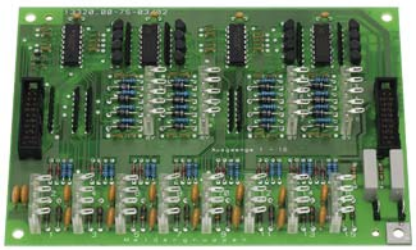
The groups can be assigned to any functions and can also be used as connection option for door code devices or of any contacts for control purposes.

Also available are 4 programmable semiconductor outputs active 12 V DC / 50 mA.

Technical Data

Current consumption	approx. 1 mA per terminated detector group

013320.03 16-detector group input module type B



The module has 16 group inputs with a protection circuit. The reference voltage is adjustable. Each group can be adjusted to the terminating resistor. The response sensitivity of the groups is adjustable.

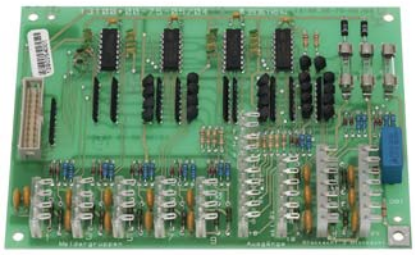
The groups can be assigned to any functions and can also be used for connecting any contacts for control purposes.

Also available are 16 programmable semiconductor outputs active 12 V DC / 50 mA.

Technical Data

Current consumption	approx. 1 mA per terminated detector group

013100.05 2-block lock /10-detector group input module



The module has 10 detector group inputs and 2 connections for monitored block locks or external operating units. For each lock, a connection for housing monitoring is available. The locks can be programmed as main block lock or door lock. Within a main zone, different dependencies of the door locks can be programmed.

Also available are 10 programmable semiconductor outputs:

4 active 12 V DC/50 mA semiconductor outputs

6 active 0 V / active 12 V DC / 50 mA semiconductor outputs

Technical Data

Current consumption per connected block lock	3 mA
Current consumption per terminated input	1 mA

013220.11 BUS-1 module



Module for connecting BUS-1 users. 4 independent individually fuse-protected connections are available for BUS-1 users. For each connection, 63 users are possible.

Technical Data

Current consumption	30 mA

013220.07 BUS-2 module



Module for connecting BUS-2 users. 4 connections decoupled from one another are available for a total of 64 BUS-2 users.

Technical Data

Current consumption	30 mA

013220.07.10 BUS-2 loop module



The BUS-2 loop module can be used to set up, in connection with the BUS-2 isolation module (item no. 013128), a BUS-2 loop system, which is distinguished by a particularly high operating reliability. When an error occurs in the BUS-2 loop, only the defective portion between two isolation modules is disconnected, all other users remain fully functional. For each module, either 2 loops, 1 loop and 2 stub lines or 4 stub lines can be realized. The module is connected via the I-BUS in the housing of the control panel.

The BUS-2 loop module contains electronic fuses.

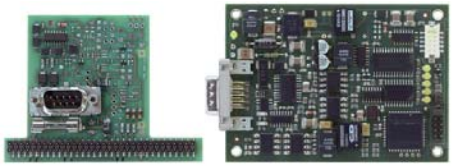
Technical Data

Operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at U_b=12 V DC	65 mA in stand by mode (without BUS-2 users)
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Ambient temperature range	-25 °C to +70 °C
Dimensions PCB (W x H x D)	158 x 112 mm

When a loop module is used, the power supply units 012168 or 012170 must be used.

EIB / KNX Interface

NEW



The EIB (European Installation Bus) is a standardized system for the European region for control signals and communication between equipment in industrial and residential buildings.

Have been used various functional networks in a building for the control of lighting and shutter - via cabling in the past, now both, the signals for switching and dimming lights and the signals for lifting and lowering the blinds on one and the same 2-wire bus transfer, is possible.

The EIB-Interface is used for bidirectional conversion of log data from the panel interface to EIB.

Thus, the intrusion system states are transmitted (e.g., inputs, outputs, and system status) to the EIB and used there to control e.g. air conditioning and lighting control scenarios, etc.

Similarly, the control of the intrusion panel by EIB commands is possible.

Performance Features

- Use in conjunction with the panel range 561-MB24/48/100
- Transfer from intrusion panel to EIB
  - For each area: internal armed, external armed, disarmed / ready for arming / alarm / fault
  - State of the signaling points (including bus users)
  - System Status
- Transfer from EIB to intrusion panel
  - For each area: internal armed / external armed / disarmed
  - Reset of the security areas
  - Disable / enable reporting areas
- Easy installation into the panel housing

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	typ. 70 mA
Environmental class as per VdS	II
Operating temperature range	0 °C to +50 °C
Dimensions (W x H x D)	121 x 76 x 24 mm

013350 **EIB-Interface 4HB 128MG**

NEW

Performance Features

- Supports 4 main areas, 128 detector zones

013355 **EIB-Interface 32HB 256MG**

NEW

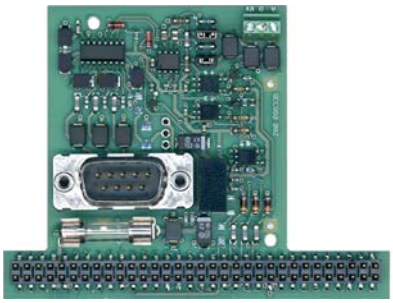
Performance Features

- Supports 32 main areas, 256 detector zones

Modules for 561-MB24 / MB48 / MB100

013211.10 RS-232/RS-485 interface for 561-MB24/48/100

NEW



The RS-232/RS-485 interface is used to connect external systems to the intruder alarm control panels 561-MB24, 561-MB48 and 561-MB100. It allows a bidirectional communication (RS-232 Full-Duplex / RS-485 Half-Duplex) to output alarms and states of an alarm panel to external systems and control of the intruder alarm panel by external systems.

Possible applications are smart links with building management systems, heating, air conditioning, lighting as well as display and control functions via building management systems.

The basis of message transmission and control is the WINMAG plus I/O device format. The data exchange from and to the panel is done in ASCII format.

Performance Features

- Display of panel conditions on external devices (embedded devices or PC applications), e. g. conditions of detector groups or zones, ident data carriers etc.
- Control of panel conditions, e. g. conditions of detector groups, arming/disarming, start of macros etc.
- Recognition of panel conditions on customer specific management systems
- To create customer specific displays, e. g. central monitoring of panels of different locations

Technical Data

Rated operating voltage	12 V DC
Current consumption at rated voltage	
- quiescent	60 mA
- maximum	80 mA
Environmental class as per VdS	II
Operating temperature range	-5° C to +45° C
Storage temperature range	-25° C to +70°C

The interface board is to be plugged onto the motherboard.
Running the 561-MB24 panel with a transmission device (as an add on pcb) the trandsmission device must be mounted in a separate housing, e g. ZG 0, item no. 057631 or ZG 1 (space for PSU and battery), item no. 057632.

List of mounting components for 561-MB100

Item no.	Designation	561-MB100 in ZG3.1 013201.10 013202.10	561-MB100 in ZG4 013203.10 013204.10	561-MB100 19" 013208.10 013209.10
010686.01	Power supply unit 12 V DC / 17 Ah	*	*	*
010690.01	Power supply unit 12 V DC / 32 Ah	*	*	*
010690.02	Power supply unit 12 V DC / 40 Ah	*	*	*
012168	Power supply unit 12 V DC / 80 Ah	*	*	*
012170	Power supply unit 12 V DC / 130 Ah	–	*	*
011910.02	Connection board 8 detector group inputs	S	S	S/R
013100.04	Group extension 16-DGE module type A	*	*	*/R
013320.03	Group extension 16-DGE module type B	*	*	*/R
013100.05	Zone extension 2-BLC/10-DGE module	*	*	*/R
013220.07	BUS-2 module	*	*	*/R
013220.07.10	BUS-2 loop module	*	*	*/R
013220.11	BUS-1 module	*	*	*/R
013330.10	IGIS-LOOP Controller	*	*	*/R
013100.08	Relay extension module	*	*	*/R
013106	Rear wall mounting plate for 19"	–	–	*
013900	Thermo printer, 40-digit	S with 013202.10	S with 013204.10	S with 013209.10
013220.14	Connection board for desktop printer	*	*	*/R
057860	Motherboard DS 6600 analog	*	*	*/R
057864	Motherboard DS 6700 PSTN/IP	*	*	*/R
057865	Motherboard DS 6750 PSTN/IP WINMAG	*	*	*/R
057650.10 /.20	Motherboard DS 7600 ISDN	*	*	*/R
057651.10 /.20	Motherboard DS 7700 ISDN / IP	*	*	*/R
057871.20	Motherboard DS 9500 ISDN	*	*	*/R
050019	16-pin distributor block	*	*	*/R
013118	19" dummy plate 6 HE, signal-grey	–	S	*
013119	19" dummy plate 3 HE, signal-grey	–	*	*
013100.10	Connecting cable set 40 mm / 250 mm	*	*	*
013100.11	Connecting cable 400 mm	*	*	*
013100.12	Connecting cable 250 mm	*	*	*
013100.13	Connecting cable 1000 mm	*	*	*
013100.14	Connecting cable 650 mm	*	*	*

Legend:
* = possible component
S = integrated standard feature
R = in combination with rear wall mounting plate 013106
– = not available

561-MB256 plus

Performance Features

- up to 2,048 detector groups can be defined, of which up to 1,028 conventional detector groups
- up to 250 main zones can be defined
- up to 2,583 BUS-1 users can be connected
- up to 704 BUS-2 users can be connected, of which a maximum of 50 operating units
- up to 16 graphic operating units can be connected
- suitable for police emergency calls
- also available as 19" flush version
- depending on design, available with LCD operating unit and printer
- programming via USB or TCP/IP in connection with PC/laptop and software package WINFEM Advanced
- simple firmware update by flash EPROM
- operator guidance by plain text display
- modular extension possible up to a maximum of 32 modules
- automatic maintenance interval display
- IGIS-LOOP and transmission devices can be integrated (also several of them)
- event memory for 4,000 entries
- alarm memory - 20 events per main zone
- technical alarm and fire alarm memory available
- 1,000 IDENT-KEY data carriers manageable
- up to 600 macros can be defined
- operator authorisation with or without code, up to 750 operating codes. Each operating function can be enabled or disabled individually

The intrusion alarm control panel 562-MB256 plus has been designed for use in large-sized and complex solutions, owing to its wide range of extension options. It meets the latest guidelines of the VdS risk class C and the regulations according to VDE 0833 Parts 1 and 3.

In its basic configuration, the 561-MB256 plus exhibits the following performance features:

- 4 conventional detector group inputs
- 63 BUS-1 users can be connected
- 64 BUS-2 users can be connected
- 8 freely programmable semiconductor outputs and 4 freely programmable relays
- integrated, monitored signalling device connections
- serial and parallel printer interface

With the corresponding extension modules a total of 2,048 detector groups to be realized. A full extension using 32 I/O modules give 1,028 conventional inputs (terminating resistance 12.1 kOhm), which can be used as inputs for detectors and switching devices.

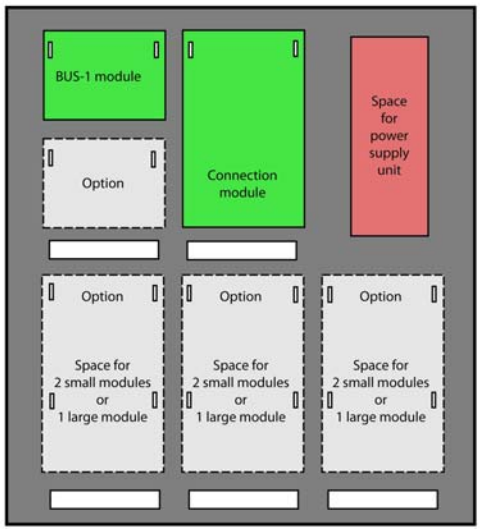
A maximum extension using BUS-1 and BUS-2 modules allows up to 2,583 BUS-1 users and 704 BUS-2 users to be connected. Of these, several detector group inputs and/or BUS users can be allocated to one detector group. This makes it possible to establish logical relationships of the individual detector groups to the premises-specific circumstances without any problems.

The mechanical assembly of the control panels is done in the standard housing ZG4, where the extension modules are mounted to the rear wall of the housing and connected to one another via flat-band cables. Apart from control panels in the ZG4 housing, control panels in 19" design are available, each with or without integrated printer. Depending on the size of the system, the power supply (option) is effected via one or more of the 17 Ah to 130 Ah power supply/charger units.

The programming of the control panel is done conveniently via a PC/laptop using the parameterisation software WINFEM Advanced. In connection with a transmission device and WINFEM Advanced, remote programming, remote maintenance and remote control are possible.

Technical Data

Rated connection voltage	230 V AC / 50 Hz
Rated operating voltage U_b	12 V DC
Current consumption at U_b	disarmed, without extension, max. 140 mA
Environmental class	II
Type of protection according to DIN 40 050	IP 30
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions of housing (W x H x D)	580 x 640 x 300 mm, type ZG 4
19" version	488 x 272 x 110 mm (incl. printer)
Housing colour	greywhite (similar to RAL 9002)
Colour of front plate	signal-grey (similar to RAL 7004)



561-MB256 plus in ZG 4

Accessories

	Housings
050055	19" housing ZG 4
050056	19" housing ZG 5
050057	19" housing ZG 6
013118	19" dummy plate 6 HE, signal-grey
013119	19" dummy plate 3 HE, signal-grey
	Relay extension
013100.08	Relay extension module
070478	Group relay card
	Printer/Printer Accessories
013900	Alphanumeric heat transfer printer, 40-digit
013901	Paper roll (5 per package)
	Power supply/charger units
010686.01	Power supply/charger unit 12 V DC / 17 Ah
010690.01	Power supply/charger unit 12 V DC / 32 Ah
010690.02	Power supply/charger unit 12 V DC / 40 Ah
012168	Power supply/charger unit 12 V DC / 80 Ah
012170	Power supply/charger unit 12 V DC / 130 Ah
050019	Distributor block
	RDT/transmission devices
057860	DS 6600 Analog transmission device
057871.20	DS 9500 ISDN transmission device
057650.10 /.20	DS 7600 ISDN transmission device
057651.10 /.20	DS 7700 ISDN/IP transmission device
057864	DS 6700 PSTN/IP transmission device
057865	DS 6750 PSTN/IP transmission device
	WINFEM control panel programming
013467.10	USB adapter box (USB 1.1 compatible)
013498	Parameterisation software WINFEM Advanced
013595	WINFEM-User
	Connecting cable
013100.10	Connecting cable set 40 mm / 250 mm
013100.12	Connecting cable 250 mm
013100.11	Connecting cable 400 mm
013100.14	Connecting cable 650 mm
013100.13	Connecting cable 1000 mm

	BUS-1 user
010109.10/.17	1-detector group module
010110.10 /.17	2-detector group module
010118	2-detector group module; flush-mounted model
010111	Universal connection module; surface-mounted model
010112	Universal connection module; flush-mounted model
010116	Active distributor module
010125	BUS-1 operating unit key switch
015128	Radio receiver module
022310.10 /.17	Door module 1
031540	Hold-up pushbutton module
032211.10 /.17	IDENTLOC evaluating unit
032420 /.17	DETEKT 1000
033370/71/72	PIR detector SCM 2000
033401/04/07	PIR detector SCM 3000
041150.10 /.17	Switching module 24 V DC / 1 A
041151.10 /.17	Switching module 250 V AC / 5 A
042235	Indoor blinking light
043050	Indoor siren module
043060 /.17	Piezo indoor siren
062085	Fire detector base module
	BUS-2 user
013130.10 /.17	5-input module
013131.10 /.17	5-output module
022160.20	IDENT-KEY IK2 evaluating unit
023312.10 /.17	IDENT-KEY IK3 evaluating unit
033442.20	Viewguard DUAL AM BUS-2
033443.20	Viewguard DUAL BUS-2
033332.20	Viewguard PIR BUS-2
033432.20	Viewguard PIR AM BUS-2
010120 /.17	DUO I/O-Modul BUS-2/BUS-1, fm
010121 /.17	DUO Relaismodul 230V AC/8A, fm
062090	BUS-2/BUS-1 smoke detector base
	BUS-2, operating units
012540 /.17	2 x 40-digit LCD operating unit
012541 /.17	2 x 40-digit LCD operating unit
012544 /.17	10-detector group operating unit with disabling unit
012542 /.17	16-detector group disable and display module
012548 /.17	16-detector group display module
012577.10	TouchCenter BUS-2 graphic operating unit

013222.10 IACP 561-MB256 plus in ZG4 housing



VdS **Approval G106037 (IDT), Class C; VSÖ W 070627/09 E**

Space for 8 options; space for power supply/charger unit; max. accumulator space 2 x 65 Ah

Housing ZG4; front plate 6 HU; dummy plate 6 HU; computer/connection PCB.

013223.10 IACP 561-MB256 plus in ZG4, incl. printer



VdS **Approval G106037 (IDT), Class C; VSÖ W 070627/09 E**

Space for 8 options; space for power supply/charger unit; max. accumulator space 2 x 65 Ah

Housing ZG4; front plate 6 HU with integrated heat transfer printer; dummy plate 6 HU; computer/connection PCB.

013224.10 IACP 561-MB256 plus 19” version



Front plate 6 HU; computer/connection PCB.

013225.10 IACP 561-MB256 plus 19” model, incl. printer



Front plate 6 HU with integrated heat transfer printer; computer/connection PCB.

013228.10 IACP 561-MB256 plus 19” model, incl. LCD operating unit



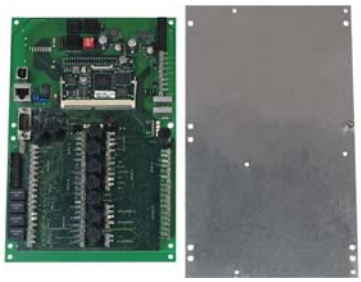
Front plate 6 HU with integrated operating unit; computer/connection PCB.

013229.10 IACP 561-MB256 plus 19" model, incl. operating unit and printer



Front plate 6 HU with integrated operating unit and heat transfer printer; computer/connection PCB.

013230 Retrofit kit IDC 561-MB256 to IACP 561-MB256 plus



This retrofit kit enables a central control unit 561-MB256 to be retrofitted to a intruder alarm control panel 561-MB256 plus.

Computer/connection PCB, adapter PCB for serial printer, mounting adapter plate, mounting and installation material, programming software WINFEM Advanced

Modules

A modular extension has the advantage that the security system can be optimally adapted to the building conditions. This also facilitates a later system extension. Different modules of identical dimensions are available. The rear walls of the individual housing types are designed for plug-in of these modules. The arrangement of the modules within the housing can be done individually.

013220.04 Connection module for MB256 / MB256 plus



Large-sized module provided with slot for siren plug-in card and radio card.

Fitted with 4 relays 250 V AC / 5 A and 4 relays 24 V DC / 1 A. 10 programmable outputs and one main alarm and one continuous alarm output can be used for relay activation or as semiconductor outputs.

Technical Data

Current consumption (without plug-in cards)	15 mA

013220.05 I/O basic module for MB256 / MB256 plus

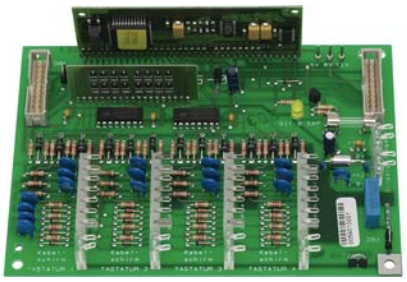


Large-sized module provided with 32 inputs for connecting one or more conventional detectors or switching devices, such as block locks or operating units. Also available are 48 programmable outputs, 32 of which can be used for the clearing of detector groups via programming plugs.

Technical Data

Current consumption (without plug-in cards)	50 mA
Current consumption per terminated input	1 mA
Semiconductor outputs	12 V DC / 50 mA

013220.06 Keypad module



Allows the connection of 4 code keypad units with matrix connection.

Technical Data

Current consumption	15 mA

013220.07 BUS-2 module



Module for connecting BUS-2 users. 4 connections decoupled from one another are available for a total of 64 BUS-2 users.

Technical Data

Current consumption	30 mA

013220.11 BUS-1 module

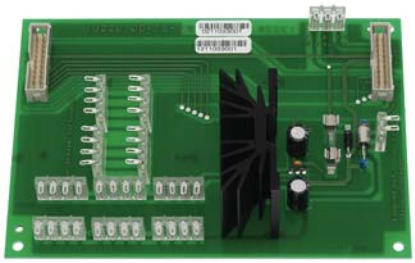


Module for connecting BUS-1 users. 4 independent individually fuse-protected connections are available for BUS-1 users. For each connection, 63 users are possible.

Technical Data

Current consumption	30 mA

013220.13 Adapter for additional power supply



The card is required when several power supply/charger units or more than 5 BUS modules (BUS-1, BUS-2, IGIS) are being used. It guarantees the required 5 V DC supply of the modules on the I-BUS and allows a star-shaped cabeling of the 12 V DC operating voltage to the modules.

Also available are 8 pin pairs for free wiring.

Technical Data

Current consumption	10 mA

012690.03 Siren plug-in card for 2 pressure chamber loudspeakers



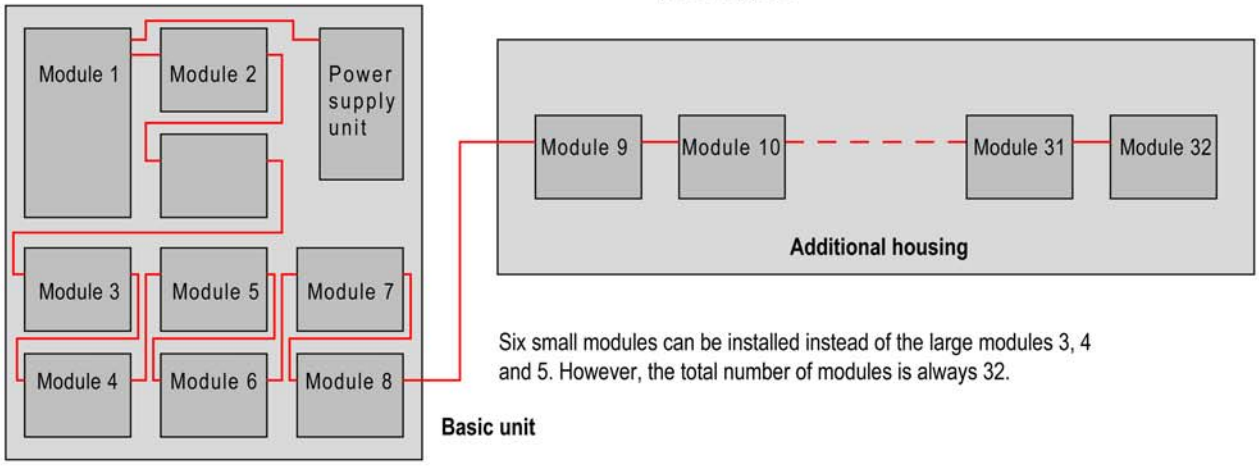
Plug-in card for operating a maximum of 2 additional acoustic alarm devices by means of the connection module 013220.04 on an MB256 or MB256 plus.

Phase-out date 31.12.2012.

Extension examples 561-MB256 plus

The examples shown here can only provide a small sample of the possible configurations. Their real intention is to point out the general possibilities from which specific solutions can be derived.

The diagram below shows in schematic form how a system can be expanded using the modules. Depending on the complexity of the system and the resulting current consumption, several power supply/charger units and adapters may be needed for auxiliary power supplies.



Six small modules can be installed instead of the large modules 3, 4 and 5. However, the total number of modules is always 32.

In this example, the basic unit is the IDC 561-M256 in CH 4. It consists of the main board, a connection module (Module 2), a BUS-2 module (Module 1) and a 580 x 640 x 300mm housing. Module positions 3 to 32 can be filled as required.

The modules can be installed in special additional housings or in commercially available 19" racks.
The following tables provide an overview of how many BUS devices can be connected with different numbers of modules.

BUS-1 configuration

In this example, apart from the connection module (Module 2) and the BUS-2 module (Module 1) only BUS-1 modules (Modules 3 to 12) are used.

The number of BUS-1 devices which can be connected depends on how many modules are used and what energy supply/ies are mounted. The max. number of BUS -1 power modules is limited to 10.

Number of BUS-1 modules	1	2	3	4	5	6	7	8	9	10
Max. number of BUS-1 devices	315	567	819	1071	1323	1575	1827	2079	2331	2583
Number of BUS-2 devices*	64									

BUS-2 configuration

In this example, apart from the connection module (Module 2) only BUS-2 modules (Modules 1 and 3 to 11) are used. The number of BUS-2 devices which can be connected depends on how many modules are used and what power supply/ies are employed. The max. number of BUS-2 modules is limited to 10.

Number of BUS-2 modules	1	2	3	4	5	6	7	8	9	10
Max. number of BUS-2 devices*	128	192	256	320	384	448	512	576	640	704

* A maximum of 50 BUS-2 keypads can be used.

Extension examples 561-MB256 plus

Conventional configuration

In this example, apart from the main connection board only basic I/O modules (RIO) (Modules 1 to 32) are used.

The number of conv. devices which can be connected depends on how many modules are used and what power supply/ies are installed.

One or more detectors can be connected per input. Switching elements such as conventional block locks or dead bolt locks with monitoring contacts are also connected at these inputs.

Number of basic I/O modules	1	2	3	4	5	.....	30	31	32
Max. number of conventional inputs	36	68	100	132	164	.....	964	996	1028
Number of BUS-1 devices	63								
Number of BUS-2 devices*	64								

* A maximum of 50 BUS-2 keypads can be used.

The number and type of detector groups is set during programming. In this case, a detector group can have one or more inputs assigned to it.

Combined configuration

In this example, apart from the connection module (Module 2) and the BUS-2 module (Module 1) various modules are used.
The number of conventional components or BUS-1 or BUS-2 devices which can be connected depends on how many and which modules are used and what power supply/ies are installed.

Example:

Type of module	Connection module	Basic I/O module	BUS-1	BUS-2	Keypad module	Connection pcb
Number of modules	1	3	2	3	1	1
Number of devices or inputs/outputs that can be connected	2 sounders 1 flasher	96	504	192*	4	2 sounders 1 flasher 4 Inputs 63 BUS-1 users 64* BUS-2 unsers
Programmable outputs	8 + 2	144	-	-	-	8
Other	8 relays	-	-	-	-	4 relays

10 modules were used in this example. If several zones are to be operated each with their own external alarm signalling device, then the number of the connection modules can be increased accordingly. There is also the option of programming freely programmable outputs to main or continuous alarm.

List of mounting components for 561-MB256 plus

		561-MB256 plus in ZG4	561-MB256 plus 19"
Item no.	Designation	013222.10 013223.10	013224.10/225.10 013228.10/229.10
010686.01	Power supply unit 12 V DC / 17 Ah	*	*/R
010690.01	Power supply unit 12 V DC / 32 Ah	*	*/R
010690.02	Power supply unit 12 V DC / 40 Ah	*	*/R
012168	Power supply unit 12 V DC / 80 Ah	*	*/R
012170	Power supply unit 12 V DC / 130 Ah	*	*/R
013220.13	Adapter for auxiliary power supply	*	*/R
013220.04	Connection module	*	*/R
013220.05	I/O basic module	*	*/R
013220.06	Keyboard module	*	*/R
013220.11	BUS-1 module	*	*/R
013220.07	BUS-2 module	*	*/R
013330.10	IGIS-LOOP Controller	*	*
013100.08	Relay extension module	*	*/R
070478	Group relay card	*	T
013900	Thermo printer, 40-digit	S with 013223.10	S with 013225.10 S with 013229.10
013220.14	Connection PCB for desktop printer	*	*/R
012690.03	Siren plug-in card	*	*/E
057860	Motherboard DS 6600	*	*/R
057864	Motherboard DS 6700 PSTN/IP	*	*/R
057865	Motherboard DS 6750 PSTN/IP WINMAG	*	*/R
057650.10 /.20	Motherboard DS 7600 ISDN	*/K	*/R/K
057651.10 /.20	Motherboard DS 7700 ISDN / IP	*/K	*/R/K
057871.20	Motherboard DS 9500 ISDN	*	*/R
050019	16-pin distributor block	*	*
013106	19" rear wall mounting plate	–	*
013118	19" dummy plate 6 HE, signal-grey	S	*
013119	19" dummy plate 3 HE, signal-grey	*	*
013100.10	Connecting cable set 40 mm / 250 mm	*	*
013100.11	Connecting cable 400 mm	*	*
013100.12	Connecting cable 250 mm	*	*
013100.13	Connecting cable 1000 mm	*	*
013100.14	Connecting cable 650 mm	*	*

Legend: * = possible component; S = integrated standard feature; R = in combination with 013106; T = in combination with 013100.08; K = compatibility mode 057500 ISDN; E = in combination with 013220.04

Accessories

013900 Alphanumeric heat transfer printer



40-digit heat transfer printer for plain text printout of operating procedures and messages. The printed texts allow a complete documentation. Through the use of heat-sensitive paper, the printer is always ready-for-use, as no ink ribbon has to be replaced. For the control panel 561-MB100, the printer is connected via the parallel interface, while for the 561-MB256/MB256 plus, it is connected via a serial or parallel interface.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	60 mA
Current consumption	600 mA average when printing
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-20 °C to +70 °C
Weight	ca. 2.1 kg
Dimensions (W x H x D)	190 x 235 x 100 mm
Colour	signal-grey, similar to RAL 7004

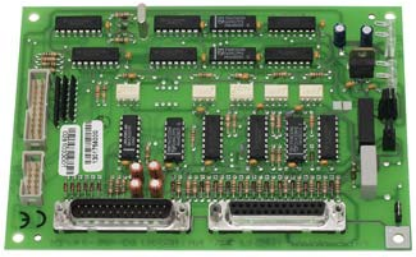
19" front plate, 6 HU with integrated printer ; mounting material; connecting cable.

013901 Paper roll for 40-digit heat transfer printer



5 pieces

013220.14 Connection PCB for table-top printers



Technical Data

Current consumption	160 mA (serial + parallel) 110 mA (parallel) 80 mA (serial) 10 mA (standby)

Phase-out date 31.12.2012

013100.10 Connecting cable set 40 mm / 250 mm



Not suitable for connecting a serial printer to the 561-MB256 plus.

013100.11 Connecting cable 400 mm



013100.12 Connecting cable 250 mm

013100.13 Connecting cable 1000 mm

013100.14 Connecting cable 650 mm

50-M5

010145.10 **IACP 50-M5**



Compact control panel containing 5 detector groups. Option to program 2 tamper alarm groups and 1 hold-up alarm group. The detector groups 1 and 2 can be disabled individually via the control panel key switch or remote operating units.

It allows alarm signalling types, such as acoustic and optic external alarm, and internal alarm, to be incorporated. Moreover, the control panel is equipped with first alarm indication, tamper individual identification and an option for one-man revision.

Performance Features

- programming via DIP switches and potentiometer
- 5 detector groups
- 1 block lock zone
- fully electronic voltage-stabilised and current-limiting power supply/charger unit
- redundancy standby operation
- accumulator monitoring
- designed for 7.5 Ah

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC/ -15% to +10%
Frequency	50 Hz
Power consumption	20 VA
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption disarmed	60 mA
Continuous current drain for ext. load	350 mA
Maximum battery capacity according to VdS	7.5 Ah
Operating temperature range	-5 °C to +45 C
Storage temperature range	-25 °C to +70 °C
Type of protection	IP 30
Environmental class according to VdS	II
Relay contact rating	30 V DC / 0.8 A
Max. battery space	1 x battery 6.5 Ah
Dimensions (W x H x D)	300 x 186 x 125 mm

Housing ZG1; computer/connection PCB 010145.01; display PCB 010145.02.

Accessories:

012600	Surface-mounted basic housing
012601	Flush-mounted basic housing
012415	Flush-mounted housing for 012601
028032	Profile half cylinder
048720 /.17	VdS compact alarm device

100-A5

010146 **IACP 100-A5 in ZG 1**



VdS **Approval** **G193721 (IDT), Class A**

Compact control panel designed for 5 detector groups. The control panel allows 2 tamper alarm groups to be programmed. In addition, the detector groups 1 and 2 can be disabled individually.

In connection with optionally connected devices, optic and acoustic external alarm, silent alarm via AWAG or dialler and internal alarm are available.

Moreover, the control panel is equipped with first alarm indication, tamper individual identification and an option for one-man revision.

Performance Features

- programming via DIP switches and potentiometer
- 5 detector groups
- 1 block lock zone
- transmission device can be connected
- fully electronic voltage-stabilised and current-limiting power supply/charger unit
- redundancy standby operation
- accumulator monitoring
- designed for 7.5 Ah

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC-15% to +10%
Frequency	50 Hz
Power consumption	20 VA
Rated operating voltage	12 V DC
Operating voltage range	10. 5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption disarmed	60 mA
Continuous current drain for ext. load	350 mA
Maximum battery capacity according to VdS	7.5 Ah
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection	IP 30
Environmental class as per VdS	II
Contact rating relay 2	250 V AC/ 5 A
Contact rating relay 3	30 V AC / 0.8 A
Max. battery space	1 x battery 7.5 Ah
Dimensions (W x H x D)	300 x 186 x 125 mm

Housing ZG 1; computer/connection PCB 010146.01; display PCB 010146.02.

Accessories:

012600	Surface-mounted basic housing
012601	Flush-mounted basic housing
012415	Flush-mounted housing for 012601
028032	Profile half cylinder
048720 /.20	VdS compact alarm device

System 561-H

011900 **IACP 561-H8 in ZG2**



VdS **Approval** **G195505 (IDT), Class B**

Control panel for up to 8 detector groups, depending on the type and number of arming device. Option to program 2 tamper alarm groups and 1 hold-up alarm group. The alarm groups 1 and 2 can be locked individually via the control panel key switch or operating units.

The available alarm signalling types are optic and acoustic external alarm, silent alarm via AWAG or dialler, internal alarm and illumination alarm.

Moreover, the control panel is equipped with first alarm indication, tamper individual identification and an option for one-man revision.

Performance Features

- Programming via DIP switches and potentiometer
- 8 detector groups
- 1 block lock area
- Transmission device can be integrated
- Fully electronic voltage-stabilised and current-limiting power supply/charger unit
- Redundancy standby operation
- Accumulator monitoring
- Designed for 15 Ah

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Frequency	50 Hz
Power consumption	20 VA
Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption disarmed	60 mA
Continuous current drain for ext. load	800 mA
Maximum battery capacity according to VdS	2 x 7.5 Ah
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection	IP 30
Environmental class according to VdS	II
Contact rating relay 2	250 V AC/ 5A
Contact rating relay 3	30 V DC / 0.8 A
Contact rating relay 4	30 V DC / 0.8 A
Max. battery space	2 x battery 7.5 Ah
Dimensions (W x H x D)	350 x 300 x 152 mm

Housing ZG2; computer/connection PCB 011900.01; display PCB 010142.02.

Accessories:

012600	Surface-mounted basic housing
012601	Flush-mounted basic housing
012415	Flush-mounted housing for 012601
028032	Half profile cylinder
057700	Motherboard DS 8800-AWUG
057650.10 /.20	DS 7600 ISDN transmission device with AWAG function
057651.10 /.20	DS 7700 ISDN/IP transmission device with AWAG function



Power Supplies

- Power supply/charger units
- Accumulators
- Batteries

Board versions

For every application, a matching power supply unit/charger is available. The individual power supply/charger units are distinguished in particular by their permanent accumulator monitoring, voltage stabilisation and current limitation.

The accumulators used with the energy supply must have been tested and approved by the VdS. For the parallel connection of accumulators, only accumulators of the same type and age and from the same production series may be used. Moreover, the regulations according to DIN VDE 0833-1 must be observed.

057530.10 Power supply/charger unit 230 V AC / 12 V DC / 7.2 Ah



VdS **Approval G 190702 (IDT), Class A; VSÖ P 070427/79**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 7.2 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	0.13 A
Maximum permanent current	0.5 A
Short-term current drain 5 min.	0.8 A
Battery capacity according to VdS	max. 7.2 Ah, max. 1 battery connectable
Power consumption	22 VA
Environmental class according to VdS	II
Dimensions (L x W)	140 x 60 mm

010686.01 Power supply/charger unit 230 V AC / 12 V DC / 17Ah



VdS **Approval G183012 (IDT), Class C**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 17 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	0.7 A
Maximum permanent current	1.4 A
Short-term current drain 5 min.	2.4 A
Battery capacity according to VdS	max. 17 Ah, max. 2 batteries connectable
Power consumption	36 VA
Environmental class according to VdS	II
Dimensions (L x W)	215 x 92.5 mm

010690.01 Power supply/charger unit 230 V AC / 12 V DC / 32 Ah



VdS **Approval** **G185054 (IDT), Class C; VSÖ W 070427/78**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 32 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	1.1 A
Maximum permanent current	2 A
Short-term current drain 5 min.	2.5 A
Battery capacity according to VdS	max. 32 Ah, max. 2 batteries connectable
Power consumption	75 VA
Environmental class according to VdS	II
Dimensions (L x W)	250 x 97.5 mm

Please note the max. continuous current output of 2 A.

010690.02 Power supply/charger unit 230 V AC / 12 V DC / 40 Ah



VdS **Approval** **G197099 (IDT), Class C, VSÖ W 070427/77**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of 40 Ah.

Equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for fault identification.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	1.5 A
Maximum permanent current	1.5 A
Short-term current drain 5 min.	2.2 A
Battery capacity according to VdS	max. 40 Ah, max. 2 batteries connectable
Power consumption	100 VA
Environmental class according to VdS	II
Dimensions (L x W)	250 x 97.5 mm

Please note the max. continuous current output of 1,5 A.

Accessories:

010693	NTC temperature sensor

012168 Power supply/charger unit 230 V AC / 12 V DC / 80 Ah



VdS **Approval G199022 (EMT), Class C; VSÖ W070427/80, W 070427/76**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 80 Ah. In addition to 12 V DC, the power supply/charger unit also supplies 24 V DC, up to a maximum load of 800 mA.

Equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for fault identification.

Technical Data

Rated mains voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	3.5 A
Max. continuous current 12 V DC output	3.5 A
Max. continuous current 24 V DC output	0.8 A
Short-term current drain 5 min.	5 A
Battery capacity according to VdS	80 Ah, max. 2 batteries connectable
Power consumption	170 VA
Environmental class according to VdS	II
Dimensions PCB (W x H x D)	102 x 252 x 80 mm

Accessories:

010693	NTC temperature sensor

012170 Power supply/charger unit 230 V AC / 12 V DC / 130 Ah



VdS **Approval G100030 (IDT), Class C**

Fully electronic, voltage-stabilised and current-limited power supply/charger unit for redundancy standby operation with accumulator monitoring, designed for an accumulator capacity of up to 130 Ah.

Equipped with deep-discharging protection, monitoring of charging circuit and battery defect detection. In addition, 8 LEDs are available for fault identification.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Maximum charging current	5.7 A
Maximum permanent current	5 A
Short-term current drain 5 min.	7 A
Battery capacity according to VdS	max. 130 Ah, max. 2 batteries connectable
Power consumption	170 VA
Environmental class according to VdS	II
Dimensions (W x H x D)	102 x 252 x 80 mm

Accessories:

012171	ZG4 housing for power supply
010693	NTC temperature sensor

012171 ZG4 housing for power supply 012170



Empty housing including lock insert for integrating the power supply/charger unit 012170.

Technical Data

Max. battery space	2 x 65 Ah batteries
Housing	2 mm sheet steel, powder-coated
Weight	approx. 25.8 kg (empty)
Dimensions (W x H x D)	580 x 640 x 300 mm
Colour	greywhite, similar to RAL 9002

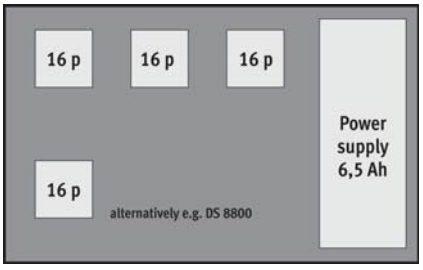
Accessories:

010693	NTC temperature sensor with connecting cable 50 cm
028050	VdS lock insert

Housing versions

012135 Power supply/charger unit 230 V AC / 12 V DC / 7.2 Ah





VdS **Approval** **G190702 (IDT), Class A; VSÖ P 070427/79**

Same as power supply/charger unit 12 V DC / 7.2 Ah (057530.10), but inside housing.

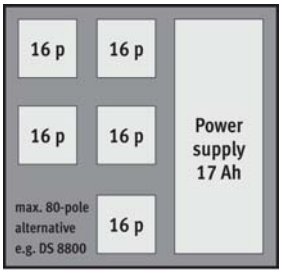
Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC; +10% -15%; 50 to 60 Hz
Mains frequency	50 to 60 Hz
Maximum charging current	0.13 A
Maximum permanent current	0.5 A
Short-term current drain 5 min.	0.8 A
Battery capacity according to VdS	max. 7.2 Ah, 1 battery connectable
Power consumption	22 VA
Max. battery space	1 x 7.2 Ah
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Housing	Type ZG1, 2 mm sheet steel
Dimensions (W x H x D)	300 x 186 x 125 mm
Sheet steel front door	powder-coated, printed
Colour	greywhite, similar to RAL 9002

Extension possible to include further distributor blocks, transmission device, modem, and the like.

012141 Power supply/charger unit 230 V AC / 12 V DC / 17 Ah





VdS **Approval** **G183012 (IDT), Class C**

Same as power supply unit/charger 12 V DC / 17 Ah (010686.01), but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, +10% -15%
Mains frequency	50 to 60 Hz
Maximum charging current	0.7 A
Maximum permanent current	1.4 A
Short-term current drain 5 min.	2.4 A
Battery capacity according to VdS	max. 17 Ah, max 2 batteries connectable
Power consumption	36 VA
Max. battery space	2 x 7.5 Ah
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Housing	Type ZG2, 2 mm sheet steel
Dimensions (W x H x D)	350 x 300 x 152 mm
Sheet steel front door	powder-coated, printed
Colour	greywhite, similar to RAL 9002

Extension possible to include further distributor blocks, transmission device, modem, and the like.

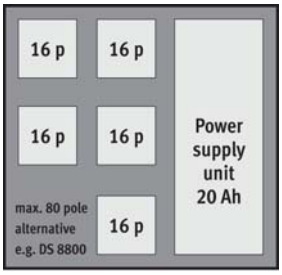
A 16-pin distributor has been built in by the factory.

Accessories:

028050 VdS lock insert

010691 Power supply/charger unit 230 V AC / 12 V DC / 20 Ah





VdS **Approval G185054 (IDT), Class C**

Same as power supply/charger unit 010690.01 (12 V DC / 32 Ah), but inside housing. Battery space for max. 20 Ah.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC; +10% -15%
Mains frequency	50 to 60 Hz
Maximum charging current	1.1 A
Maximum permanent current	2 A
Short-term current drain 5 min.	2.5 A
Battery capacity according to VdS	20 Ah, max. 2 batteries connectable
Power consumption	75 VA
Max. battery space	2 x 10 Ah or 1 x 16 Ah
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Housing	Type ZG2, 2 mm sheet steel
Dimensions (W x H x D)	350 x 300 x 152 mm
Sheet steel front door	powder-coated, printed
Colour	greywhite, similar to RAL 9002

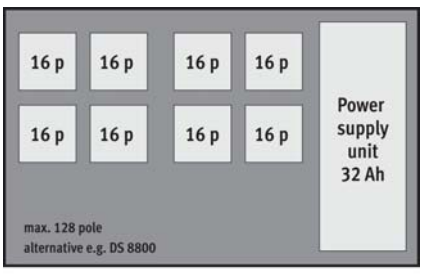
Extension possible to include further distributor blocks, transmission device, modem, and the like.

Accessories:

028050 VdS lock insert

010692 Power supply/charger unit 230 V AC / 12 V DC / 32 Ah





VdS **Approval G185054 (IDT), Class C**

Same as power supply/charger unit 12 V DC / 32 Ah, 010690.01, but inside housing.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC; +10% -15%
Mains frequency	50 to 60 Hz
Maximum charging current	1.1 A
Maximum permanent current	2 A
Short-term current drain 5 min.	2.5 A
Battery capacity according to VdS	32 Ah, max. 2 batteries connectable
Power consumption	75 VA
Max. battery space	2 x 10 Ah or 1 x 25 Ah or 2 x 16 Ah
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Housing	type ZG3.1, 2 mm sheet steel
Dimensions (W x H x D)	500 x 300 x 210mm
Colour	greywhite, similar to RAL 9002
Sheet steel front door	powder-coated, printed

Extension possible to include further distributor blocks, transmission device, modem, and the like.

Accessories:

028050 VdS lock insert

012169 Power supply/charger unit 230 V AC / 12 V DC / 24 V DC / 80 Ah



VdS **Approval G199022 (IDT), Class C**

Same as power supply/charger unit 12 V DC / 80 Ah, 012168, but inside housing.

Fully electronic 12 V DC power supply/charger unit with 24 DC output. Voltage-stabilised with current limitation and redundancy standby operation with accumulator monitoring and deep-discharging protection. Monitoring of charging circuit and battery defect detection.

The robust steel sheet housing, type ZG3.1, with LED display for “Mains available” and “Fault” has space for 2 x 40 Ah accumulators.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, -15% to +10%
Mains frequency	50 to 60 Hz
Max. continuous current 12 V DC output	3.5 A
Max. continuous current 24 V DC output	0.8 A
Short-term current drain 5 min.	5 A
Battery capacity	80 Ah, max. 2 batteries connectable
Power consumption	170 VA
Type of protection	IP 30
Environmental class as per VdS	II
Dimensions (W x H x D)	500 x 300 x 210 mm
Colour	greywhite, similar to RAL 9002

Accessories:

010693 NTC temperature sensor

Accessories

010693 NTC temperature sensor



For power supply/charger units 012168, 012170 and 010690.02, for optimising the temperature-controlled accumulator charging voltage. Required when accumulators are not mounted in the immediate proximity of the power supply unit/charger.

The NTC temperature sensor is mandatory for VdS systems.

Including connecting cable, 50 cm length.

028050 VdS lock insert



According to VdS for commercial use, for example for retrofitting housings.

The VdS lock insert is delivered with the Schulte 1k101 locking mechanism.
For alarm control panel, no single locking mechanism may be used.

2 keys.

Small power supply units

094051 Power supply unit 230 V AC / 12 V DC / 0.5 A



The power supply unit provides 2 x 12 V DC, 1 x stabilised, 1 x non-stabilised and non-smoothed.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC, +10% to -15%
Mains frequency	40 Hz to 60 Hz
Output voltage	12 V DC stabilised
Output voltage	12 V DC not stabilised, non-smoothed
Output current	500 mA max.
Type of protection DIN 40 050	IP 40
Environmental class according to VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	151.5 x 45 x 79 mm
Colour	greywhite, similar to RAL 9002

A total current (sum of both outputs) of max. 500 mA can be drained.
For example output 1 = 100 mA, output 2 = 400 mA.

Accumulators

The listed lead accumulators are maintenance-free, closed accumulators containing a solid electrolyte. They operate independent of position, are exhaustive discharge protected, cycle-resistant, durable (4 to 5 years) and designed for maximum load. The charging voltage for 12 V accumulators (6 x 2.3 V per cell) is 13.8 V at an ambient temperature of +20° C

The accumulators meet the VDE 0833 - 1 guidelines for hazard detection systems and are VdS-approved. According to the VdS guidelines, the accumulators should be replaced, if not stated otherwise in the approval certificate, at least every four years.

As we have accumulators from different manufacturers on stock, we can not guarantee that a shipment contains only accumulators from one manufacturer.

Please make sure that according to VdS guidlines, the accumulators to be used are from the same manufacturer, have the same date of manufacture and the same capacity.

018001.10 12 V accumulator / capacity 1.2 Ah

Technical Data

Dimensions (W x H x D)	98 x 59 x 49,5 mm

018002.10 12 V accumulator / capacity 2.0 Ah

Technical Data

Dimensions (W x H x D)	179 x 67 x 36 mm

018003.10 **12 V accumulator / capacity 3.5 Ah**

Technical Data	
Dimensions (W x H x D)	134,5 x 64,4 x 66,8 mm

018004.10 **12 V accumulator / capacity 6.5 Ah**

Technical Data	
Dimensions (W x H x D)	153 x 101 x 67 mm

018005.10 **12 V accumulator / capacity 10 Ah**

Technical Data	
Dimensions (W x H x D)	1521 x 101 x 98 mm

018011.10 **12 V accumulator / capacity 12 Ah**

Technical Data	
Dimensions (W x H x D)	153 x 102 x 100 mm

018012 **12V DC accumulator / capacity 16 Ah**

Technical Data	
Dimensions (W x H x D)	181 x 167 x 76 mm

Required as part of VdS certification when used on power supply units 010690.01 and 010692 at full capacity (2 x 16 Ah).

018007.10 **12 V accumulator / capacity 17 Ah**

Technical Data	
Dimensions (W x H x D)	182,5 x 168,5 x 78 mm

018006.10 **12 V accumulator / capacity 24 Ah**

Technical Data	
Dimensions (W x H x D)	167,5 x 127 x 178 mm

018008.10 **12 V accumulator / capacity 38 Ah**

Technical Data	
Dimensions (W x H x D)	210 x 175 x 175 mm

018010.10 **12 V DC accumulator / capacity 65 Ah**

Technical Data	
Dimensions (W x H x D)	350 x 190 x 167 mm

Batteries

018050 3 V lithium battery



Technical Data

Button cell	3 V / 950 mAh / type: CR2477N

018051 9 V alkali-manganese battery



Technical Data

Battery	9 V / 550 mAh

018053 6 V lithium battery for manual hold-up radio transmitter



Technical Data

Lithium battery	6 V / 150 mAh

Accessories

055280 Fixing band for accumulators, dual lock



The flexible press lock is suitable for fastening and fixing accumulators according to European Standard EN Part 2 and VdS guidelines 2540 (impact and vibration).

4 double strips each 15 cm long.



Remote data transmission

- Analog dialling devices
- IP data transmission
- Analog dialling devices
- ISDN dialling devices
- Redundant radio channel
- Alarm receiver

List of communication devices

Transmission device				
	DS 4200	AWAG 6200	DS 8800-AWUG	DS 6600
Item nr.	**057605**	**057623**	**057700**	**057860**
VdS approval nr.	**----**	**G188804**	**G193803**	**G107806**
PSTN	x	x	x	x
Stand alone mode supported	x	x	x	
Speech capability	35 sec.	2 x 22 sec.		
Inputs	1	2	8	BUS / 100
Outputs with panel				BUS / 40
Phone numbers	4	6	8	20
VdS 2465 protocol				x
TELIM protocol			x	x
Contact ID protocol				x
e*cityruf (e-message) tone only				x
SMS transmission via TAP and UCP protocol				x
SMS transmission via PSTN with 1TR140 protocol				x
SMS transmission via PSTN to a E-Mail client				x
SMS transmission via PSTN to a fax machine				x
Connection to panel	conventional (hardwired)	conventional (hardwired)	conventional (hardwired)	EMZ-RS 232 BUS-2[2] I-BUS2[2]
Compatibility to				DS 6500 / DGA 2400
Integration module for panels			x	x
Modem function				x
Remote parametrization / remote access			x[1]	x / x
Programming via PC /Notebook				x, USB
FLASH-Firmware Update per USB				x
Programming by mobile programming device 059998			x	
Event log / number of events	1	14	75	1000
Routine call functions / Number of dialling sequences	x / 1	x / 1	x / 1	4 / 8

Legend: 1 = Second device neede 2 = Only compatibility mode BUS = Functionality depends on panel x = yes

Undeliverable Undeliverable

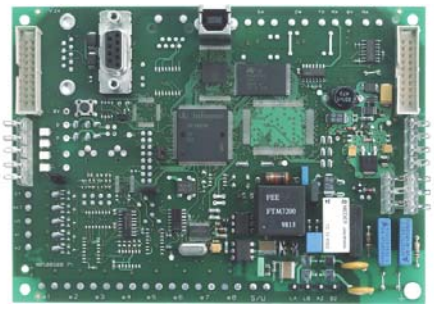
List of communication devices

Transmission device						
	DS 6700	**DS 6750**	**DS 9500**	**DS 9600**	**DS 7600**	**DS 7700**
Item no.	**057864**	**057865**	**057871.20**	**057872.10/.20**	**057650.10/.20**	**057651.10/.20**
VdS approval	**G111803**	**G111803**	**G107803**	**G107802**	**G106801**	**G106802**
Telecom network	PSTN	PSTN	ISDN	ISDN	ISDN	ISDN
Stand alone mode supported	x	x	–	–	x	x
Ethernet connection	x	x	–	–	–	x
Communication with Smartphone App	x	x	x	x	x	x
Speech capability (predefined messages in German)	x	x	x	x	x	x
Individually speech texts	1 (16sec)+4 (4sec each)	1 (16sec)+4 (4sec each)	4+1 (3sec each)	4+1 (3sec each)	4+1 (3sec each)	4+1 (3sec each)
Inputs	8 / 88 / 108 3)	8 / 88 / 108 3)	– / – / 100	– / – / 100	8 / 88 / 108 3)	8 / 88 / 108 3)
Outputs with panel	108	108	100	100	108	108
Phone numbers / Dialling sequences	20 / 8	20 / 8	20 / 8	20 / 8	20 / 8	20 / 8
Connection to control centre (TELIM protocol)	x	x	x	x	x	x
Connection to control centre (VdS 2465 protocol)	x	x	x	x	x	x
Connection to control centre (Contact ID)	–	x	–	–	–	–
SMS function / e*cityruf (e-message)	x	x	x	x	x	x
E-Mail via	Ethernet	Ethernet / ISDN / GPRS 5)	–	–	ISDN	Ethernet / ISDN / GPRS 2)
TCP/IP connection via	Ethernet	Ethernet / ISDN / GPRS 5)	–	–	–	Ethernet / ISDN / GPRS 2)
Encription algorithm (TCP/IP)	AES	AES / Chiasmus	–	–	–	AES / Chiasmus
X.31 connection	–	–	–	–	x	x
Simultaneus connections over TCP/IP	4 Alarm receiver 2 WINFEM	4 Alarm receiver 2 WINFEM 4 WINMAG 2 Video systems	– – – –	– – – –	– – – –	4 Alarm receiver 2 WINFEM 4 WINMAG 2 Video systems
Dedicated line connection over D channel	–	–	–	–	4	4
Demand-controlled connections over D channel	–	–	–	–	x	x
Redundant connection with	RFW-3000 / RFW-4000 (GSM / GPRS)	RFW-3000 / RFW-4000 (GSM / GPRS)	– –	– –	.10 only RFW-3000 .20 RFW-3000/RFW4000 GSM	.10 only RFW-3000 .20 RFW-3000/RFW4000 GSM / GPRS
GPRS connection to security service	RFW-3000 / RFW-4000	RFW-3000 / RFW-4000	–	–		only RFW-3000 GSM
Connection to panel	Conventional (hardwired) EMZ-RS 232 BUS-2 4) I-BUS 4)	Conventional (hardwired) EMZ-RS 232 BUS-2 4) I-BUS 4)	EMZ-RS 232 BUS-2 4) I-BUS 4)	(only 561-MB24) EMZ-RS 232 BUS-2 4)	Conventional (hardwired) EMZ-RS 232 BUS-2 4) I-BUS 4)	Conventional (hardwired) EMZ-RS 232 BUS-2 4) I-BUS 4)
Expanded BUS-2 interfacing for control panels without serial connection for alarm signaling via IP	–	x	–	–	–	–
Compatibility to	DGA 2400	DGA 2400	DS 8500-ISDN	DS 8600-ISDN	DS 7500-ISDN	DS 7500-ISDN
Number of remote outputs	2 / 82 / 42 3)	2 / 82 / 42 3)	40	40	2 / 82 / 42 3)	2 / 82 / 42 3)
Integration module for panels	x	x	x	x	x	x
Modem function	x	x	x	x	x	x
Remote parametrization / remote access	yes/yes	yes/yes	yes 1) / yes 1)	yes 1) / yes 1)	yes/yes	yes/yes
Active, galvanically and functionally decoupled ISDN-S0-BUS for downstream ISDN devices	–	–	–	–	yes	yes
Programming via PC /Notebook	x	x	x	x	x	x
Event log / number of events	1000	1000	1000	1000	1000	1000
Routine call functions / Number of dialling sequences	x / 4	x / 4	x / 4	x / 4	x / 4	x / 4

Legend: 1) = only with Point-to-Multipoint configuration 2) = Only with GSM module RFW-3000 GSM 3) = on Board / max. Expansion / Integration
4) = only compatibility mode 5) = GPRS with RFW-3000 GSM

Analog dialling devices with digital transmission

057860 **DS 6600 Analog transmission device with Contact ID and TELIM**



Performance Features

- Alarm transmission by VdS 2465 (V.22 at 1,200 bits/s) protocol in analog telecommunication network
- Telim protocol
- Contact ID
- SMS transmission via TAP and UCP protocol
- Landline transmission of SMS (1TR140 protocol)
- Landline transmission of SMS to an e-mail recipient
- Landline transmission of SMS to a fax recipient
- e* Cityruf (tone only)
- Modem function for remote access to the connected hazard detection control panels (14,400 baud)

Programmable performance features:

- 20 telephone numbers for demand-controlled connections
- Several individually configurable dialling sequences
- Non-volatile event memory for at least 1,000 max. 2,000 events.
- Remote control options in connection with compatible alarm receivers
- 100 outputs of the intrusion detection control panel can be transmitted alarm criterion
- 100 freely programmable functional group outputs can be transmitted as alarm criterion via Contact-ID Event Code
- Permanent monitoring of the availability of the telephone connection with sabotage security enabled and anti-block function enabled
- Extensive remote service and remote diagnosis options

VdS **Approval** **G107806 (IDT), transmission device**

The ISDN transmission device DS 6600 is used for digital transmission of technical faults and emergency calls over the public analog telecommunication network to a rescue service (digital alarm receiver of a security service). Moreover, in compatible hazard detection control panels, the modem function allows remote service and remote diagnosis.

Information transmission takes place to compatible alarm receivers (e.g. DEZ 9000), which are capable of interpreting the following protocols:

- VdS 2465 in analog telephone network
- Telim protocol
- Contact ID

In addition, the wide range of options of sending SMS provided by the transmission device DS 6600 may be mentioned in particular. Thus, it is not only possible to send SMS to mobile phones and landline phones, but SMS can also be sent over the landline network to e-mail and fax recipients.

For the use of the DS 6600 as integration module in compatible hazard detection systems, the IACP RS-232 interface with an extended range of functions is available. Thus, the USB interface of the transmission device can be used in this connection for programming the control panel.

The transmission device DS 6600 has an I-BUS interface and a BUS-2 interface. This enables its integration, via a compatibility mode (with a reduced range of functions), into control panel systems that do not provide an IACP RS-232 interface.

The application-specific data are conveniently programmed via WINFEM Advanced.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V to 15 V DC
Current consumption stand-by	80 mA
Current consumption active	110 mA
Environmental class according to VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dial process	IWV, MFV
Connection	to telephone jack, TAE-6 socket
Dimensions (L x W)	158 x 112 mm

Integration module for the intrusion detection control panels MB12, 561-MB24, 561-MB48, 561-MB100.

Telecom connecting cable.
Serial connecting cable for intruder alarm control panel.

Accessories:

For MB24

012835 Mechanical kit

PSTN auto diallers for the security technique

NEW

Performance Features

System features

- Connection to panel via serial interface, BUS-2 and I-BUS
- Integration module or “stand-alone” device.
- Automatic daylight saving time switching
- Clock module with 48 hour power reserve
- Selektive remote service authorization
- Battery and low voltage monitoring
- Flexible activation of signalling relay
- FDC connection with DIN14675 interface (extension pcb 057655)
- 8 individually parametrizable inputs on the motherboard
- 2 semiconductor outputs on the motherboard for remote control
- Up to 16 input / output modules on BUS-2:
  - Hence extendable to max. 80 inputs / outputs
- With serial IACP connection:
  - 100 panel alarm criteria
  - 40 control criteria to the panel
- Detaillied plain text transmission of message criterion to the alarm receiving center
- 4 individually parametrizable routine calls
- 20 event controlled call numbers
- 10 E-Mail addresses
- 10 call numbers per dialling sequence
- 8 dialling sequences
- AWAG functionality:
  - Record and play via headset
  - Saving of language in the PC
  - Two combinable AWAG operation modes
  - Standard vocabulary
  - Location text (16 sec.) and 4 free announcement texts (4 sec each)
- Non-volatile parameter memory and event memory with min. 1000 events
- Integrated protocol analysor of system conditions for service purposes
- remote maintenance via analogue telephone line (V.32bis) and Ethernet
- EN 54-21 approval pending
- VdS approval pending

Features on analogue telephone line

- Permanent monitoring of availability of the telephone connection
- Line monitoring with blockade release
- Tone, pulse and blind dialling
- Connectable to exchange and extension lines
- Parametrizable waiting time for calls
- Telim and VdS 2465 (V.22) transmission protocol
- AWAG speech alarming

Features Ethernet connection

- Line monitoring of Ethernet interface
- DHCP or manual input of IP parameter
- Remote maintenance via WINFEM
- Fix IP connections to alarm receiving centers (max. 4 at the same time)
- AES encryption of IP connections
- Recognition of DoS-attacks
- VdS 2465-S2 transmission protocol
- IQ SystemControl
- E-Mail
- Communication with Smartphone App possible

The transmission devices DS 6700 / DS 6750 are used to transmit messages from hazard detection systems using public and private communication networks as well as an interface to remote systems, such as management systems linked via public or private networks.

Moreover, when used in compatible hazard detection panels, the devices allow remote service and remote diagnosis.

The transmission device can be integrated in a panel housing in addition two housings for use as stand-alone device are available.

In the event of discontinuation or migration of classic transmission paths (e.g. ISDN), there are often not enough or no future solutions for a secure alarm transmission to alarm receiving centres available. The expanded BUS-2 connection feature of the DS 6750 presents the solution for central control units to send alarms via IP networks. Via BUS-2 adapted control panels using the DS 6750, demand-actuated or dedicated line IP connections to alarm receiving centers can be established in accordance with VdS guidelines.

Several dedicated line connections and demand-actuated connections can be established and maintained simultaneously to different alarm receiving centers. In addition, demand-actuated connections can be established for transmission of messages, without the need to interrupt already existing connections. Both the PSTN (public switched telephone network) and Ethernet are used as transmission networks. Use within private branch exchange systems is also possible. In combination with the RFW-3000 / RFW-4000, the transmission devices can connect to the internet via the GSM service GPRS (General Packet Radio Service) and establish online and demand-controlled IP connections to an alarm receiving center. These transmission paths also allow e-mails to be sent.

Both transmission devices are equipped with an integrated dialing device with voice transmission, because the operator requested frequent plain text information about the status of the property

The voice transmission is possible without the need for additional hardware and without additional investment. The set up of voice recording can be made by using the nine integrated standard texts or using a headset, this enables the recording of individual voice messages by the installer. Back up and recording of voice messages can be made via WINFEM Advanced.

The optional ATS adapter for fire panels provides an interface for fire alarm systems according to DIN 14675, appendix B and VdS 2463. Permits the transmission of fire and fault notifications from fire alarm panels.

Up to 2 video panels can be connected via TCP/IP (Ethernet) to the transmission device DS 6750. Communication takes place by means of the VdS-compliant protocol VdS 2465-S2 via TCP/IP connection. The configuration of the video panel and the DS 6750 is effected conform to VdS 2471 and 2465-S2.

By connecting the intrusion detection and the video panel, a functional and cross-system combination of the two systems is achieved, e.g.cross-system interactions, control of the video panel through operating states of the intrusion detection panel, display of names in the video picture when access and switching operations take place

Apart from the alarm transmission, integration into a hazard detection system allows extensive remote service functions of the two systems. Not only live monitoring of operating and switching processes are possible also future cross-border services like alarm pretest for informative assessment of the situation or automated guard patrols are feasible.

Features GSM / GPRS connection

- RFW-3000 or RFW-4000 adaptable
- Optional offset antenna for RFW-3000 or RFW-4000
- VdS 2465 transmission protocol
- AWAG speech alarming via GSM with RFW-4000
- Telim transmission protocol via GSM with RFW-4000
- SMS notification via GSM
- Fix connections via GPRS
- Demand controlled connections via GPRS
- AES encryption of IP connections

057864 DS 6700 PSTN/IP auto dialler

NEW



VdS **Approval** **Class C (IDT) G111803**

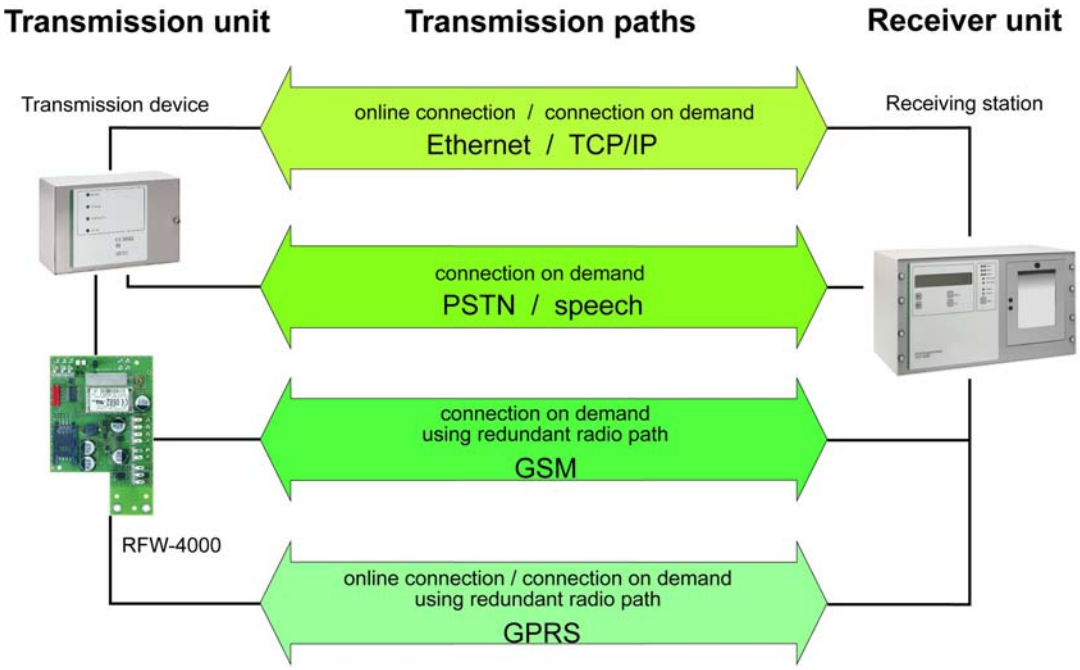
Transmission of information via the analogue telephone network (PSTN) and Ethernet (TCP/IP).

Interface for connection to GSM-networks (in connection with RFW-4000 / RFW-3000).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10,5 V DC to 15 V DC
Current consumption in no-load operation	135 mA / 150 mA (without Ethernet / with Ethernet)
Current consumption active	typ. 155 mA / typ. 170 mA (PSTN / PSTN+Ethernet)
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Dimensions PCB (L x W)	158 x 112 mm

Telecom connecting cable.
Serial connecting cable for intrusion detection control panel.



Application example

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057590	RFW-4000 GSM/GPRS plug in module
057575	RFW-3000 GSM/GPRS transmission system
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

057865 DS 6750 PSTN/IP-auto dialler

NEW



VdS **Approval** **Class C (IDT) G111803**

Transmission of information via the analogue telephone network (PSTN) and/or IP network. Suitable for connection to main exchange line or extension line of the public telephone network.

With AWAG-functionality, direct possibility of WINMAG connection, contact-ID transmission and Ethernet interface for connection to IP-networks. Interface for connection to GSM-networks (in conjunction with RFW-4000).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10,5 V DC to 15 V DC
Current consumption in no-load operation	135 mA / 150 mA without Ethernet / with Ethernet)
Current consumption active	typ. 155 mA / typ. 170 mA (PSTN / PSTN+Ethernet)
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Dimensions PCB (L x W)	158 x 112 mm

Telecom connecting cable.
Serial connecting cable for intrusion detection control panel.

Performance Features

System features

- Extended BUS-2 connection for panels without serial connection for alarm reporting via IP
- With serial IACP connection:
  - 100 function group outputs as alarm criterion (Contact-ID)

Features on analogue telephone line

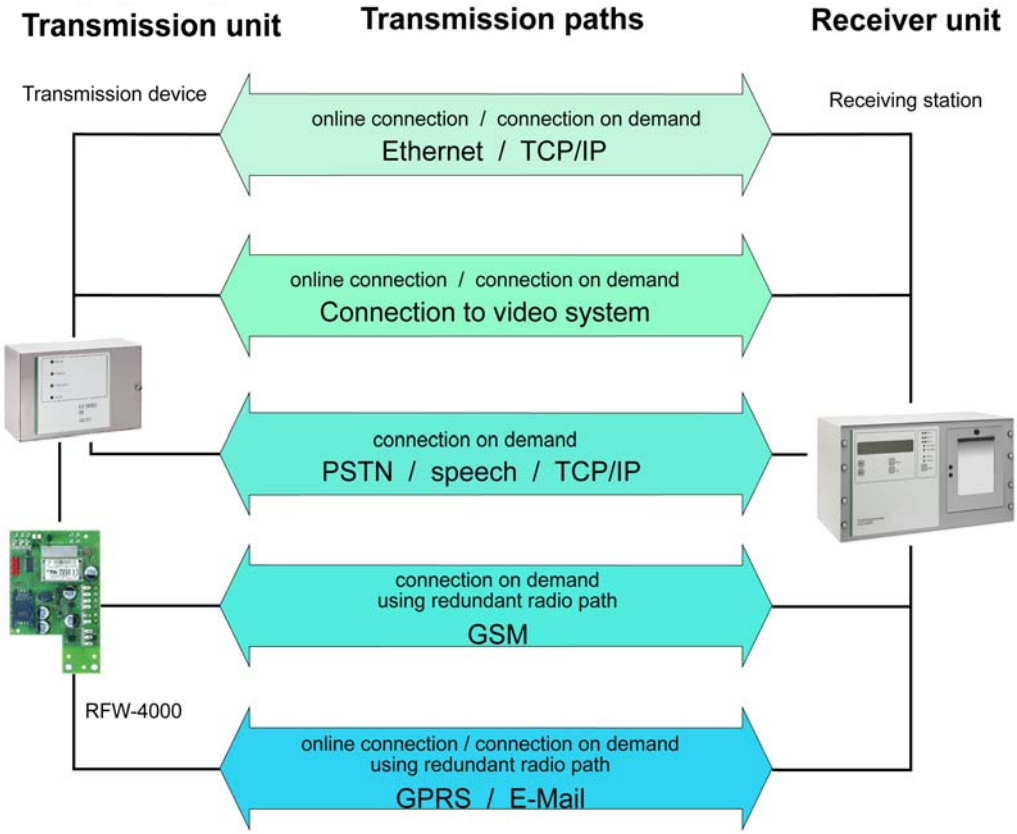
- Remote control and remote request via DTMF
- Contact ID transmission protocol
- SMS notification
- E-Mail via PPP (max. 10 E-Mail addresses)
- VdS 2465 IP-connections via PPP
- NTP via PPP (synchronisation with time server)
- WINMAG
- WINMAG “stand-alone” connection
- IQ MulitAccess

Features Ethernet connection

- CHIASMUS-encryption of IP-connections
- NTP (synchronisation with time server)
- WINMAG via IP (max. 4 at the same time)
- WINMAG via IP (max. 4 at the same time) “stand-alone” connection
- IQ MultiAccess
- Video center connection via IP (max. 2 at the same time)

Features GSM / GPRS connection

- Contact ID transmission protocol with RFW-4000
- E-Mail via GPRS
- CHIASMUS encryption of IP connections
- NTP via GPRS (synchronisation with time server)



Application example

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057590	RFW-4000 GSM/GPRS plug in module
057575	RFW-3000 GSM/GPRS transmission system
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

057605 AWAG 4200 dialler with annunciator



Automatic telephone dialler with annunciator including user-guidance input of telephone numbers and the announcement text.

The AWAG 4200 transmission device has been designed for use as automatic dialler with annunciator for signalling and notifying purposes. An individually recorded voice message is transmitted selectively to up to four memorised user numbers when an event occurs (e.g. releasing a relay contact, by key press).

In connection with an intrusion or fire detection system, AWAG 4200 has turned out to be the solution in different situations, such as, for example, as an alarm, fire, gas, cooling/freezing cabinet failure or power failure detector. This announcement can either be transmitted over a distance (via the public telephone network) or locally (within a private branch exchange system).

Performance Features

- 1 input
- Freely programmable
- Electronic voice memory
- Multi-frequency dialling method
- May be operated within private branch exchange systems (no fault switching operation), call exchange possible via code or flash
- Up to 4 telephone numbers programmable
- Max. announcement time: 35 seconds
- Built-in loudspeaker and microphone
- Alarm contact closed or open, programmable as release condition for dialling sequence
- Start of the dialling sequence possible by alarm contact or manually by key press
- Alarm delay and alarm blocking time programmable
- Emergency power supply (power supply unit including accumulator) can be integrated in the housing as an option

Technical Data

Rated voltage	12 V DC
Operating voltage	10 V DC to 14 V DC
Quiescent current	39 mA
Alarm current	max. 200 mA
Operating temperature range	-10 °C to +35 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Activation	NO switch without NC switch, potential-free
Transmission procedure	voice transmission
Dialling method	DTMF
Connection	TAE-6
Dimensions PCB (W x H x D)	130 x 160 x 40 mm
Dimensions housing (W x H x D)	250 x 210 x 100 mm

Room for power supply/charger unit 057530.10 and accumulator 018002.10.

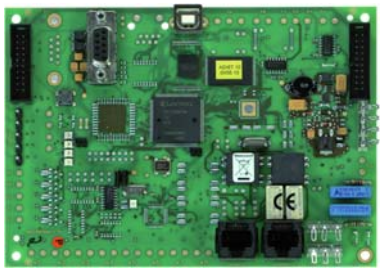
Accessories:

057530.10	Power supply/charger unit 12 V DC / 7.2 Ah
018002.10	12 V DC / 2.0 Ah accumulator
057550	ADO8/TAE/IAE covering case

ISDN transmission device for security technology

057871.20 **DS 9500 ISDN transmission device with AWAG function**

NEW



VdS **Approval** **G101803 (IDT), transmission device**

The DS 9500 is operated in the ISDN network. It is used for digital transmission of technical faults, hazard messages and emergency calls and for remote parameterisation, remote maintenance and remote diagnosis of the connected hazard detection system. The performance features for the remote control functions and the remote parameterisation require an ISDN multipoint interface. A point-to-point connection having the desired remote maintenance functionality requires, for example, the use of the transmission devices DS 7600 or DS 7700.

The connection is made to ISDN-capable alarm receivers, for example DEZ 9000. The connection to TELIM-compatible alarm receivers can also be effected by means of DS 9500.

It is equipped with an integrated dialler and paging device and allows remote control functions and remote inquiries to be executed from any phone or mobile phone. It uses intuitive, language-controlled user guidance as known from operating a mailbox.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 9500 as a standard function. Language memories containing previously prepared standard texts for 9 transmission channels are available. When the dialler is connected to an MB control panel via a serial interface, its 100 output criteria can be assigned to the 9 transmission channels as desired. Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

For the use of the DS 9500 as integration module in compatible hazard detection systems, the IDCP RS-232 interface with an extended range of functions is available. This makes it possible to operate several connections in parallel via ISDN. The USB interface of the transmission device can be used in this connection for programming the control panel.

The transmission device DS 9500 has an I-BUS interface and a BUS-2 interface. This enables its integration into older control panel systems of the HB48 or 561-MB100 (without the index .10 in the art. no.) series without IACP RS-232 interface via a compatibility mode (with a reduced range of functions).

The application-specific data are conveniently programmed via WINFEM Advanced.

Performance Features

- ISDN B channel VdS 2465
- ISDN B channel TELIM
- ISDN B channel Plain text transmission (dialler function)
- SMS via ISDN
- e* Cityruf (alphanumeric or tone only)
- Voice transmission via standard texts and DTMF detection without additional extensions
- Up to 4 individual texts of 3 sec each can be voice recorded by ISDN telephone
- VdS approval

Additional performance features of ISDN multipoint configuration:

- Remote control options in connection with voice and telephone keypad (DTMF detection)
- Modem function for remote access to the connected hazard detection control panel
- Extensive remote service and remote diagnosis options
- It can be used for connecting IQ MultiAccess and IQ SystemControl.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC bis 15 V DC
Current consumption	100 mA
Environmental class as per VdS	II
Operating temperature range	-10 °C bis +50 °C
Storage temperature range	-25 °C bis +70 °C
Dimensions (L x W)	158 x 112 mm

Integration module for intrusion detection control panels
561-MB8, MB12, 561-MB16, 561-MB100, 561-MB256, 561-HB48 and 561-MB48.

ISDN connecting cable.
Serial connecting cable for intrusion detection control panel.

Digital ISDN transmission device with AWAG function DS 7600

NEW

Performance Features

- Can be used on an ISDN multi-device connection and ISDN system connection (PTP, PTMP)
- Can be used as integration module or stand-alone device
- Interface for connection to compatible panels: I-BUS, BUS-2
- Active, galvanically and functionally decoupled ISDN S0 BUS for downstream ISDN devices
- Serial interface S1 according to VdS 2463 and VdS 2465
- Parallel interface S1 of 8 inputs according to VdS 2463 (freely programmable inputs)
- 2 potential-free outputs for positive drive, signalling
- 80 additional monitored and freely programmable inputs or outputs can be set up
- Non-volatile parameter and event memories (at least 1,000 entries)
- Failure-proof real-time clock, can be synchronised with compatible hazard detection system or ISDN
- Freely configurable dialling sequences for different event types
- TELIM Transmission via the ISDN B channel (VdS 2465, TELIM)
- Transmission via the ISDN D channel (X.31), 4 online or demand-controlled connections
- Sending of SMS, paging, voice messages and remote control function via ISDN B channel
- Integrated AWAG function, modifiable standard texts for voice messages available
- GSM data connections (V.110) with RFW-3000/RFW-4000 (optional extension)
- Sending of SMS and e-mail transmission via GSM with RFW-3000/RFW-4000 (optional extension)
- Sending e-mails via ISDN internet dial-up connection by means of the PPP protocol.
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 10 e-mail addresses programmable
- Permanent monitoring of the transmission paths and system states including recording
- Integrated protocol analyser for service purposes
- Intelligent anti-block function for ISDN with protection of emergency call connection
- Telephone number check and password prompt for remote access
- Remote control functions via voice or DTMF
- Language-supported user guidance for remote access and remote control over the telephone
- Parameterisation via WINFEM Advanced (USB or remote access) or via central unit operating unit
- Remote connection of the connected hazard detection control panel to WINMAG plus
- Direct connection of a GPS antenna and transmission of the site coordinated possible
- Transmission of IDENT-KEY personal data for documentation and reproducibility of operating procedures
- Transmission of detailed information of compatible hazard detection systems including texts for zones, groups and detectors

The DS 7600 is a transmission device that, owing to its comprehensive functionality on the ISDN connection and its optional redundancy via GSM leaves nothing to be desired for these transmission paths. Its range of functions is not limited to the transmission of hazard messages, but also offers remote parameterisation, remote control and remote maintenance.

Connections take place primarily to ISDN-capable or TELIM-compatible alarm receivers, such as the DEZ 9000. When GSM is used as the redundant transmission path, messages can be received from the alarm receiver via ISDN or a separate GSM module. Language or SMS is transmitted via ISDN (for SMS, optionally by GSM) to any telephone connections (SMS to selected networks). A transmission to e-mail recipients is also possible via the ISDN PPP protocol.

The transmission device can be installed in the control panel housing as integration module, for which two housing models for stand-alone operation or remote assembly are additionally available.

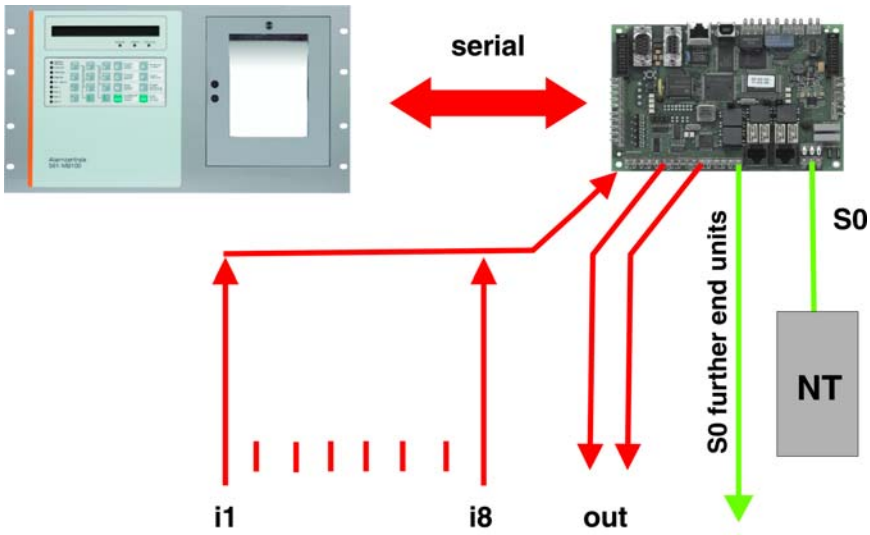
The DS 7600 has 8 detector group inputs whose activation and response characteristics can be adapted individually. Furthermore, two remote switching outputs are available.

The transmission of the alarm and control information via the ISDN takes place in accordance with the relevant VdS specifications, thus ensuring compatibility with the corresponding receiver units. The transmission of very detailed information made possible by the DS7600 allows a quick and selective reaction of reduced risk potential for the intervention personnel.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 7600 as a standard function. Language memories containing previously prepared standard texts for 9 transmission channels are available. When the dialler is connected to an MB control panel via a serial interface, the latter's 100 output criteria and the 8 conventional inputs of the DS 7600 can be assigned to the 9 transmission channels as desired. Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

The integrated DTMF detection allows remote control functions and remote inquiries to be carried out from any telephone connection that runs with the DTMF dialling method. An integrated language-supported user guidance allows an easy intuitive operation of remote control and remote inquiry.

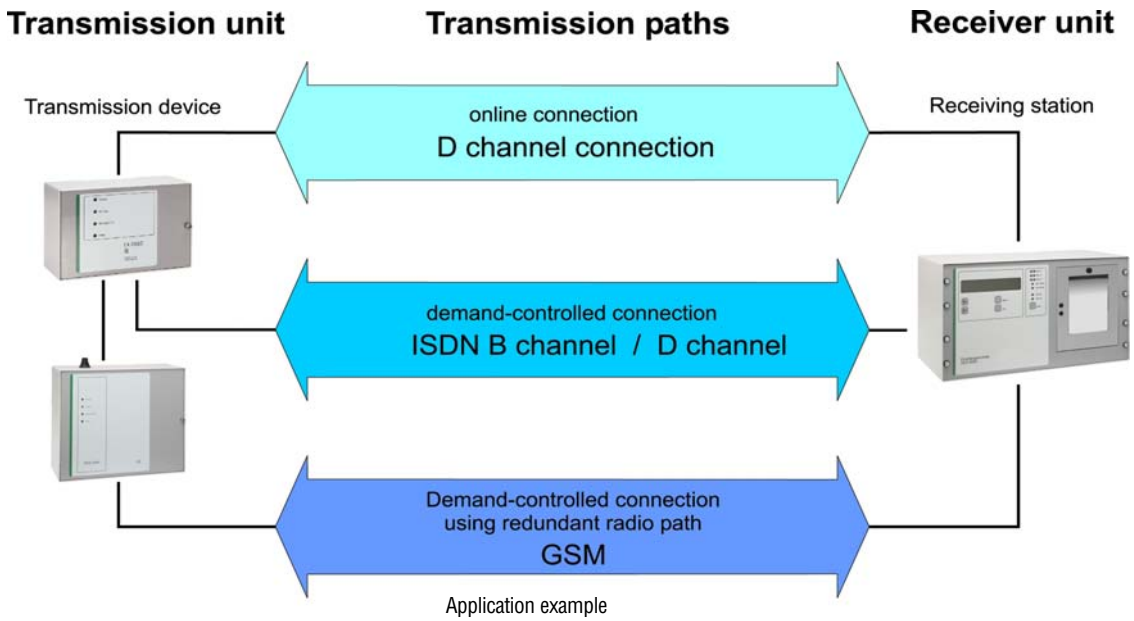
When used as a stand-alone device, the integrated BUS-2 interface allows a connection of BUS-2 5-input or 5-output modules. Moreover, 80 additional inputs or outputs can be set up, allowing very extensive monitoring and control tasks to be covered.



Functional diagram

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption stand-by	100 mA
Current consumption active	150 mA
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Activation	Quiescent current group, operating current group, differential detector group
Dimensions PCB (L x W)	158 x 112 mm



Application example

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057590	RFW-4000 GSM/GPRS plug in module (only 057650.20)
057575	RFW-3000 GSM/GPRS transmission system
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

057650.10 DS 7600 ISDN transmission device, incl. voice transmission



VdS **Approval G 106801 (IDT); VSÖ W 070427/39 E**

Information transmission via ISDN, suitable for connection to ISDN basic rate interfaces (multipoint or point-to-point connections).

Interface for connection to GSM networks (in connection with RFW-3000).
Includes ISDN connecting cable.

For GSM and GPRS conection RFW-3000 applicable.

Phase-out date 30.06.2012.

057650.20 DS 7600 ISDN transmission device, incl. voice transmission

NEW



VdS **Approval G 106801 (IDT); VSÖ W 070427/39 E**

Information transmission via ISDN, suitable for connection to ISDN basic rate interfaces (multipoint or point-to-point connections).

Interface for connection to GSM networks (in connection with RFW-3000 and RFW-4000).
Includes ISDN connecting cable.

For GSM and GPRS conection RFW-3000/RFW-4000 applicable.

Digital ISDN/IP transmission device with AWAG function DS 7700

NEW

Performance Features

- Full functionality on an ISDN multipoint connection and ISDN point-to-point connection (PTP, PTMP)
- Alarm transmission, remote control and remote parameterisation via IP networks
- Can be used as integration module or stand-alone device
- Interface for connection to compatible panels: I-BUS, BUS-2
- Active, galvanically and functionally decoupled ISDN S0 BUS for downstream ISDN devices
- Ethernet interface for connection to IP networks
- Serial interface S1 according to VdS 2463 and VdS 2465
- Parallel interface S1 of 8 inputs according to VdS 2463 (freely programmable inputs)
- 2 potential-free outputs for positive drive, signalling
- 80 additional monitored and freely programmable inputs or outputs can be set up
- Non-volatile parameter and event memories (at least 1,000 entries)
- Failure-proof real-time clock
- Freely configurable dialling sequences for different event types
- Transmission via the ISDN B channel (VdS 2465, TELIM)
- Transmission via the ISDN D channel (X.31), 4 online or demand-controlled connections
- Demand-controlled and 2 online, encrypted or non-encrypted IP connections to alarm receivers
- TCP/IP connection using the AES or Chiasmus encryption methods
- Sending of SMS, paging, voice messages and remote control function via ISDN B channel
- Integrated AWAG function, modifiable standard texts for voice messages available
- GSM data connections (V.110) with RFW-3000/RFW-4000 (optional extension)
- GPRS IP connections and sending e-mails via GPRS (for use with RFW-3000/RFW-4000)
- Sending of SMS and e-mail transmission via GSM with RFW-3000/RFW-4000 (optional extension)
- Sending e-mails via Ethernet or ISDN internet dial-up connection by means of the PPP protocol
- Simultaneous use of all transmission types and transmission channels possible
- 20 telephone numbers, 4 dial-up access numbers for X.31 and 10 e-mail addresses programmable
- Permanent monitoring of the transmission paths and system states including recording
- Integrated protocol analyser for service purposes
- Intelligent anti-block function for ISDN with protection of emergency call connection

The DS 7700 is a transmission system for use in public or private IP networks having an additional function as ISDN transmission device. Its range of functions is not limited to the transmission of hazard messages, but also offers remote parameterisation, remote control and remote maintenance.

A further redundancy via GSM/GPRS can be obtained with optional accessories (RFW 3000).

Connections take place via IP-networks, if desired, additionally via ISDN to VdS- and/or TELIM-compatible units, such as the DEZ 9000. When GSM is used as the redundant transmission path, messages can be received from the alarm receiver via ISDN or a separate GSM module. Voice or SMS transmission is effected via ISDN (for SMS, optionally by GSM) to any telephone connection.

An e-mail can be sent via Ethernet or ISDN internet dial-up connection by means of the ISDN PPP protocol.

In connection with the RFW 3000, the DS 7700 can connect to the internet via the GSM service GRPS (General Packet Radio) and establish online and demand-controlled IP connections to an alarm receiver. This configuration also allows an e-mail to be sent.

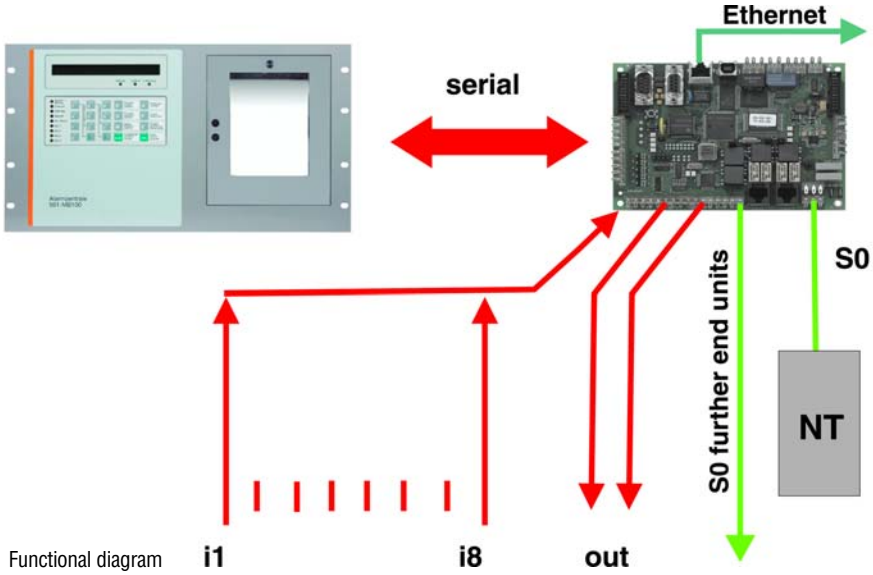
The transmission device can be installed in the control panel housing as integration module, for which two housing models for stand-alone operation or remote assembly are additionally available.

The DS 7700 has 8 detector group inputs whose activation and response characteristics can be adapted individually. Even when used as integration module, the 8 independent detector group inputs are additionally available for further transmission criteria. Furthermore, two remote switching outputs are available.

The transmission of the alarm and control information via IP and ISDN takes place in accordance with the relevant VdS specifications, thus ensuring compatibility with the corresponding receiver units. The transmission of very detailed information made possible by the DS 7700 allows a quick and selective reaction of reduced risk potential for the intervention personnel.

The AWAG function, that is, the transmission of voice messages via ISDN to any telephone connection, has been completely integrated into the DS 7700 as a standard function. Language memories containing previously prepared standard texts for 9 transmission channels are available. When the dialler is connected to an MB control panel via a serial interface, the latter's 100 output criteria and the 8 conventional inputs of the DS 7700 can be assigned to the 9 transmission channels as desired. Additional texts each about 3 sec. long can be freely supplemented in 4 of these 9 transmission channels. The supplementary text is dictated via a phone.

The integrated DTMF detection allows remote control functions and remote inquiries to be carried out from any telephone connection that runs with the DTMF dialling method. An integrated language-supported user guidance allows an easy intuitive operation of remote control and remote inquiry.



Functional diagram

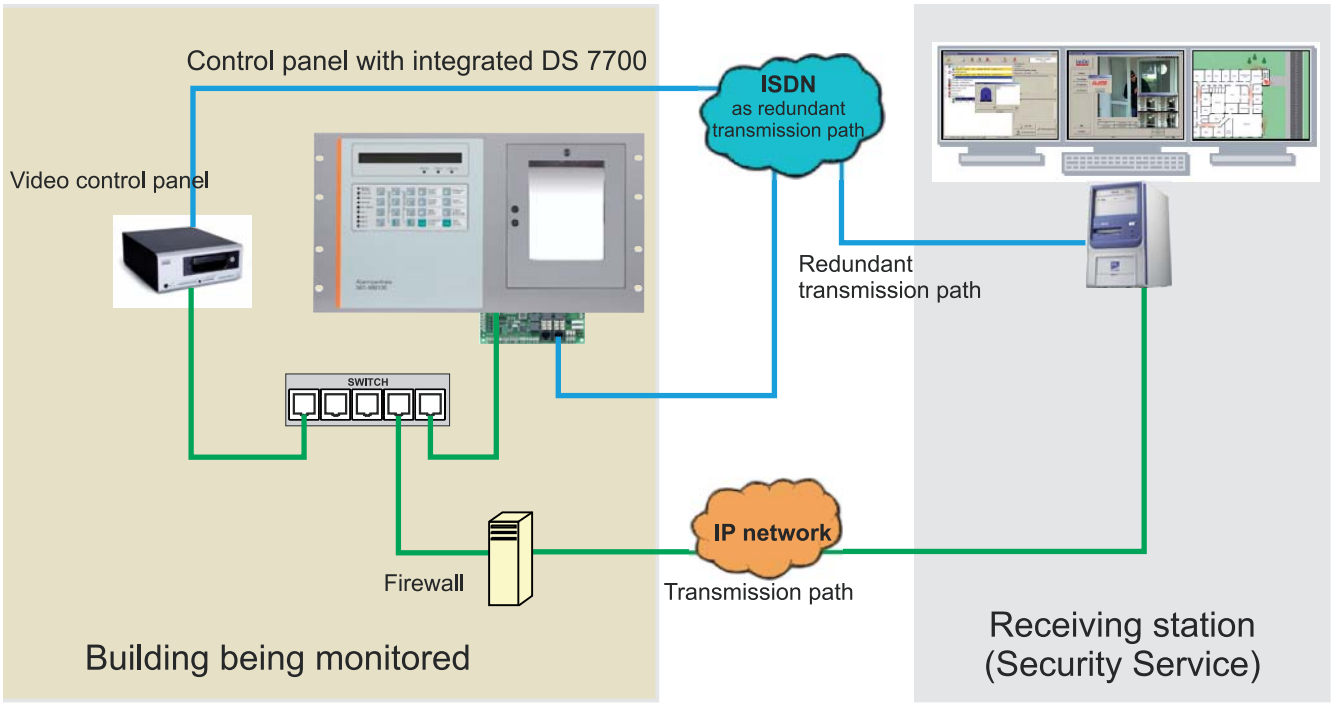
- Telephone number check and password prompt for remote access
- Remote control functions via voice or DTMF
- Language-supported user guidance for remote access and remote control over the telephone
- Parameterisation via WINFEM Advanced or via control panel operating unit
- Direct connection of a GPS antenna and transmission of the site coordinated possible
- NTP functionality allows time synchronisation by polling an NTP server in the intranet or by internet
- Connection to digital video transmission systems via VdS 2465 S3 (picture surveillance systems)
- Transmission of IDENT-KEY personal data for documentation and reproducibility of operating procedures
- Transmission of detailed information of compatible hazard detection systems including texts for zones, groups and detectors
- Communication with Smartphone App possible

When used as a stand-alone device, the integrated BUS-2 interface allows a connection of BUS-2 5-input or 5-output modules. Moreover, 80 additional inputs or outputs can be set up, allowing very extensive monitoring and control tasks to be covered.

It is possible to connect up to 2 video control panels via TCP/IP (Ethernet). Communication is by the VdS-compliant protocol VdS 2465-S2 via an online TCP/IP connection. The video control panel acts towards the DS 7700 like a monitoring control panel according to VdS 2471 and 2465-S2.

The interconnection of intrusion detection control panel and video control panel offers a functional integration of both systems and cross-system interactions, such as the control of the video control panel by operating states of the intrusion detection control panel, display of names in the video picture during access control and switching operations.

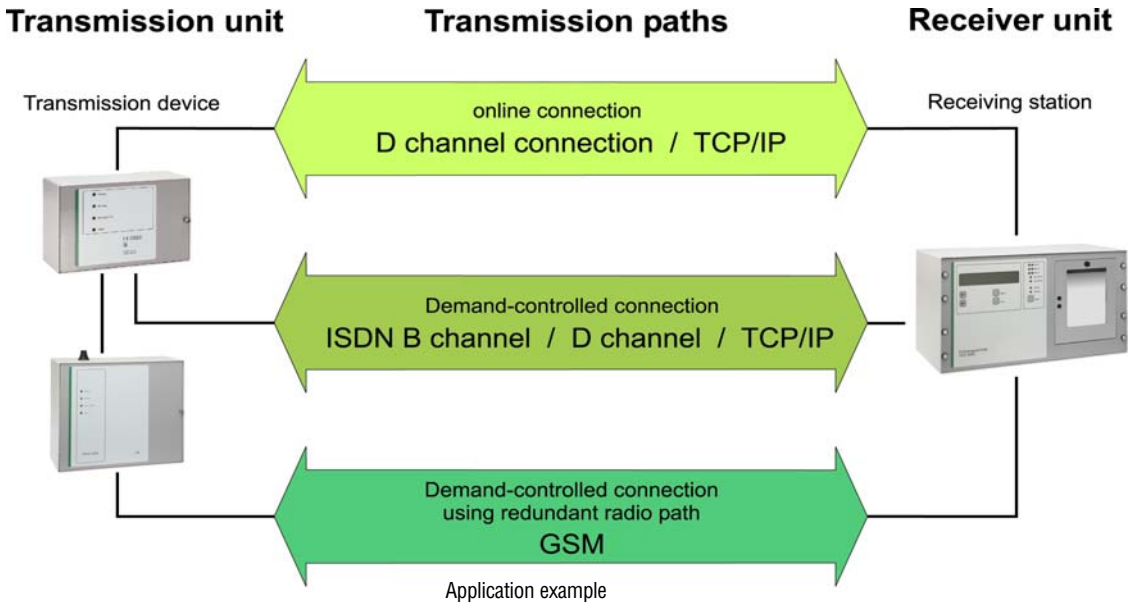
The functionalities of the two systems complete each other and are not only available to the management system of the security services for informative assessment of the situation during the alarm pretest and to allow them to intervene even more quickly, but can also be used for future video-based services, such as automatic guard patrols or live monitoring of operating procedures and switching operations.



Functional diagram

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10.,5 V DC to 15 V DC
Current consumption stand-by	160 mA
Current consumption active	200 mA
Environmental class as per VdS	II
Ambient temperature	-10 °C to +50 °C
Storage temperature	-25 °C to +70 °C
Activation	Quiescent current group, operating current group, differential detector group
Dimensions PCB (L x W)	158 x 112 mm



Application example

Accessories:

057655	FDS connection board for transmission device
057631	Sheet steel housing ZG0
057632	Sheet steel housing ZG1 with room for power supply unit and accumulator
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah integratable in art. no. 057632
018004.10	12 V DC / 6.5 Ah accumulator
057590	RFW-4000 GSM/GPRS plug in module (only 057651.20)
057575	RFW-3000 GSM/GPRS transmission system
057550	ADO-8 / TAE6 / IAE covering case
057551	Covering case for NTBA and terminal box

For MB12 / MB24

012835	Mechanical kit

057651.10 DS 7700 ISDN/IP transmission device



VdS **Approval** **G 106802 (IDT); VSÖ W 070427/38 E**

Information transmission via ISDN and/or IP network, suitable for connection to ISDN basic rate interfaces (multipoint or point-to-point connections).

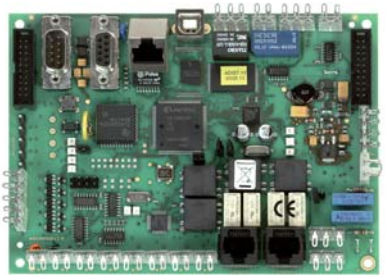
Ethernet interface for connection to IP networks, interface for connection to GSM/GPRS networks (in connection with RFW-3000). Includes ISDN connecting cable.

For GSM and GPRS conection RFW-3000 applicable.

Phase-out date 31.12.2012.

057651.20 DS 7700 ISDN/IP transmission device

NEW



VdS **Approval** **G 106802 (IDT); VSÖ W 070427/38 E**

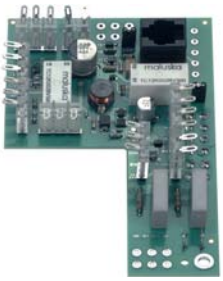
Information transmission via ISDN and/or IP network, suitable for connection to ISDN basic rate interfaces (multipoint or point-to-point connections).

Ethernet interface for connection to IP networks, interface for connection to GSM/GPRS networks (in connection with RFW-3000 and RFW-4000). Includes ISDN connecting cable.

For GSM and GPRS conection RFW-3000/RFW-4000 applicable.

Accessories for transmission devices

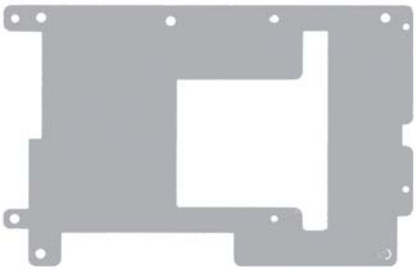
057655 FDS connection board for transmission device



The optional ATS adapter for fire panels provides an interface for fire alarm systems according to DIN 14675, appendix B and VdS 2463. The adapter permits the transmission of fire and fault notifications from fire alarm panels by means of DS 7700 / DS 7600 / DS 6700 / DS 6750.

- Interface according to DIN 14675 and VdS 2463
- Inputs for transmission of alarm indications from fire alarm systems
- For use in fire alarm systems with 12 V DC or 24 V DC power supply voltage

012835 Mechanical kit for MB24/MB12



For installing transmission devices (DS 6600, DS 7600, DS 7700, DS 9500, DS 6700, DS 6750). Incloded in range of delivery of item no. 057872.10.

Technical Data

Dimensions (W x H x D)	112 x 175,5 x 1,5 mm

057631 Additional housing ZG0 for ISDN transmission devices



For installing transmission devices (DS 6600, DS 7600, DS 7700, DS 9500, DS 6700, DS 6750).

Technical Data

Housing	with hinged door: 2 mm sheet steel powder-coated
Fastener	via seal
Colour	greywhite, similar to RAL 9002
Dimensions (W x H x D)	230 x 155 x 90 mm

No room for emergency power supply.

057632 Additional housing ZG1 for ISDN transmission devices



For installing transmission devices (DS 6600, DS 7600, DS 7700, DS 9500, DS 6700, DS 6750) plus a power supply type 057530.10 and battery.

Technical Data

Housing	with hinged door: 2 mm sheet steel powder-coated
Fastener	via seal
Colour	greywhite, similar to RAL 9002
Dimensions (W x H x D)	300 x 186 x 125 mm

Room for emergency power supply 057530.10 and 1 accumulator 018002.10 or 018004.10.

057550 ADO-8 / TAE-6 / IAE covering case



Steel sheet housing with tamper switch and sealable cover for covering an ADO 8, telecom socket and ISDN connection unit. According to the current regulations of TELEKOM and VdS.

Technical Data

Dimensions (W x H x D)	120 x 135 x 75 mm
Colour	greywhite, similar to RAL 9002

057551 Covering case for NTBA and terminal box



Sheet steel housing with tamper switch and sealable cover. According to the current regulations of TELEKOM and VdS.

Technical Data

Dimensions (H x W x D)	230 x 230 x 75mm
Colour	greywhite, similar to RAL 9002

057846 ISDN connecting cable including two Western connectors, 1.5 m



057850 ISDN terminal box



For connection to two separate exchange lines.

RFW-4000 / RFW-3000 / RFW-2000 E systems

The VdS-approved “redundant radio path” serves as independent transmission path for transmitting hazard messages via ISDN and GSM networks D1 and Vodafone to a rescue service (security service).

The reason for using redundant transmission paths or replacement paths are the corresponding specifications of the VdS guidelines or requirements of users subject to an increased safety risk as a result of a higher risk of possible attacks.

Replacement path:

An additional transmission path to be switched to when a fault occurs in the main transmission path. According to the VdS, the replacement transmission path must run over separate lines to the object and also the receiving centre.

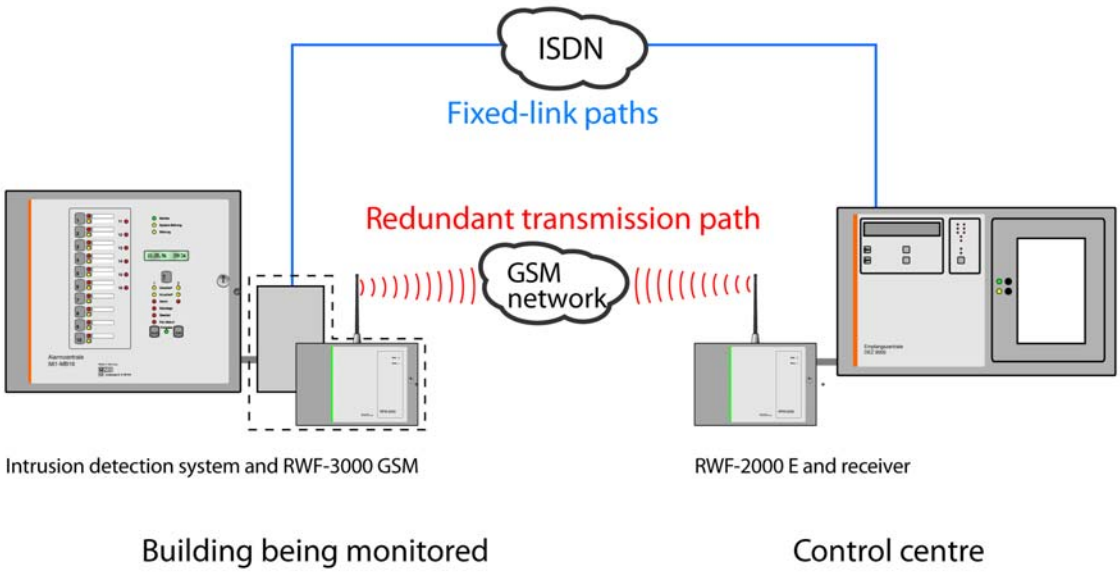
Ideally, the replacement path should be laid through a network independent of the main transmission path (e.g. GSM network). According to VdS, both transmission paths must be checked periodically for availability and functioning.

The system RFW-4000 is designed as a plug in board for the transmission devices DS 6700 and DS 6750 for the realization of a redundant transmission path. Thus no separate housing for the transmission system is required.

In connection with the redundant radio channel RFW-3000, the DS 7700 can connect to the internet via the GSM service GRPS (General Packet Radio).

Both systems allows you to establish online and demand-controlled IP connections to an alarm receiver. Like the hardwired Ethernet IP connections, they can also be used encrypted or non-encrypted. It must be possible to configure the alarm receiver for the reception of alarm messages from IP data networks (e.g. DEZ 9000).

The technical data of the GMS terminal are based on information from the manufacturer.



Planning example

Accessories:

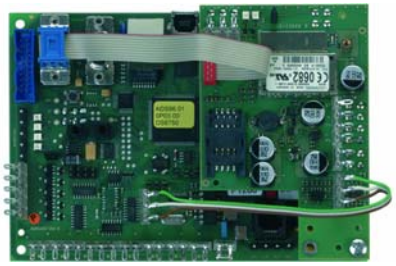
057530.10	Power supply/charger unit 12 V DC / 7.2 Ah
010686.01	Power supply/charger unit 12 V DC / 17 Ah
018004.10	12 V DC / 6.5 Ah accumulator
057846	ISDN connecting cable including two Western connectors, 1.5 m
057850	ISDN connecting cable including two Western sockets
057550	AD08/TAE6/IAE covering case

RFW-4000 system

057590 **RFW-4000 GSM/GPRS add-on module**

NEW





VdS **Approval** **Class C (IDT) G111803**

Add-on module with GSM terminal, redundant radio path.
GSM-/ GPRS information transmission for digital auto diallers.

The RFW-4000 system enables a digital transmission of technical fault messages, hazard messages and emergency calls via GSM /GPRS networks to assistance providing centers (receiving center of a security service).

The device is built as an plug-in pcb for compatible transmission devices to realize a redundant radio path. Thereby no separate housing for the transmision system is required.

On failure of one of the two transmission paths, hardwired or wireless, at one an appropriate fault message will be transmitted via the other existing redundant transmission path. A specific routine call function enables an alternating transmission of the test message on both transmission paths.

If the radio medium is the only transmission path available, the RFW-4000 can be used in conjunction with a suitable transmission device. This provides a monitoring of objects even without an existing hardwired transmission path, e. g. in weekend cottages, chalets, store rooms, boats, or movable buildings according to VDE0100/0108.

Technical Data

Rated operating voltage	+12 V DC
Operating voltage range	10,5 V DC to 15 V DC
Current consumption in no-load operation	15 mA
Current consumption active transmission operation GSM	typ. 50 mA
Current consumption active transmission operation GPRS	typ. 100 mA
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions PCB (W x H x D)	65 x 110 x 30 mm

Compatible to alarm transmission devieces DS 7600 (Item no. 057650.20) and DS 7700 (Item no. 057651.20), available in Q1 / 2012.

RFW pcb
GSM antenna suitable for universal mounting on Honeywell ZG housings.

Performance Features

- Adaptable to auto diallers DS 6700 and DS 6750
- No external housing required
- I ncluded antenna can be mounted on panel housiing
- Optional external antenna connectable

Protckols:

- VdS 2465 S2
- Fix and demand controlled IP connections via GPRS
- AES - encryption
- Chiasmus - encrption (with DS 6750 only)
- Telim and speech
- Contact ID (with DS 6750 only)
- E-mail via GPRS (ith DS 6750 only)
- SMS
- NTP via GPRS (with DS 6750 only)
- Mounting also possible in MB12 and MB24

Accessory:

057591	GSM exterior antenna with 5 m cable
057592	GSM cable, 5 m

Diallers and transmission protocols with RFW-4000

Dialler	Item no.	As of firm-ware version	Transmission path wired	Transmission path wireless	Transmission protocol in GSM / GPRS
DS 7600	**057650.20**	V05.xx	ISDN	GSM	VdS 2465 / SMS
DS 7700	**057651.20**	V05.xx	ISDN	GSM GPRS	VdS 2465 SMS / E-Mail IP-Verbindung bedarfsgesteuert IP-Verbindung stehend
DS 6700	**057864**	V03.xx	PSTN	GSM GPRS	VdS 2465 Speech Telim / SMS IP conection demand-actuated IP conection dedicated line
DS 6750	**057865**	V03.xx	PSTN	GSM GPRS	VdS 2465 Speech Telim / SMS Contact ID E-Mail IP conection demand-actuated IP conection dedicated line

057591 **GSM exterior antenna with 5 m cable**



GSM exterior antenna with fastening clamp, cable adapter FME tof MMCX and mounting material, suitable for 057590 and 057575.

057592 **GSM cable, 5 m**



Extension cable for GSM exterior antennea, 057591, suitable for 057590 nd 057575.

RFW-3000 / RFW-2000 E systems

057575 RFW-3000 GSM/GPRS transmission system



VdS **Approval** **G106801 (IDT) in conjunction transmission device DS 7600**
G106802 (IDT) in conjunction transmission device DS 7700

GSM/GPRS information transmission system for digital transmission systems DS 7600, item no. 057650.10 and DS 7700, item no. 057651.10. Installation option for: Emergency power supply, 010686.01 or 057530.10; accumulator 6.5 Ah, 018004.10.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	10,5 V DC to 15 V DC
Current consumption	22 mA
Current consumption active	<100 mA
Operating temperature range	-10 °C bis +55 °C
Storage temperature	-25 °C bis +70 °C
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Colour	greywhite, similar to RAL 9002
Dimensions (W x H x D)	350 x 300 x 152 mm

For setting up a complete transmission system, a DS 7600 or DS 7700 with article no. Index .10 is required. RFW-3000 GSM can be used and is compatible with DS 7600 (057650.10) DS 7700 (057651.10) each from firmware version V02.25.

GSM terminal with serial connecting cable; connection pcb and power supply cable; antenna for GSM terminal; application forms; housing ZG2.

Accessories:

057591	GSM exterior antenna with 5 m cable
057592	GSM cable, 5 m

057580 RFW-2000 E



VdS **Approval** **G196801 (IDT), transmission device; VSÖ 070427/66 E**

Redundant radio path for receiver units, system including a GSM terminal. GSM information transmission system for ISDN reception module. Installation option for: Emergency power supply, 010686.01 or 057530.10; accumulator 6.5 Ah, 018004.10.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	10,5 V DC to 15 V DC
Current consumption	45 mA
Current consumption active	<300 mA
Operating temperature range	-5 °C bis +45 °C
Storage temperature	-25 °C bis +70 °C
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Colour	greywhite, similar to RAL 9002
Dimensions (W x H x D)	350 x 300 x 152 mm

To set up a complete transmission system for receiver units, an ISDN receiver module (057885) is required as system component of the digital alarm receiver DEZ 9000.

GSM terminal with serial connecting cable; GSM adapter (057572) for ISDN reception module; connection pcb and power supply cable; antenna for GSM terminal; application forms; housing ZG2.

Accessories

057572 GSM adapter for ISDN reception module



For use of an RFW-2000 in connection with an ISDN reception module of the alarm receiver DEZ 9000.

Application example

All required components can be housed in the housing of the RFW-3000 (ZG 2).

For setting up a complete transmission system, an ISDN transmission device DS 7600 or DS 7700 is required.

This ISDN transmission device can be installed, depending on the application, in the housing of the RFW-3000 or in the housing of the hazard detection control panel.

The activation of the transmission system can be effected, depending on the particular requirements, via the 8 inputs of the ISDN transmission device (parallel S1) or, when being used on compatible control panels, via BUS-2 or I-BUS.

It goes without saying that the RFW-3000 also allows functions, such as:

- Remote programming,
- Remote diagnosis and
- Remote inquiry

via ISDN.

When the system is activated via BUS-2 or I-BUS, teleservice for the connected hazard detection system is also possible.

In addition, extensive test and diagnostic options for the GSM components have also been implemented.

The card contract necessary for operating the GSM terminal can be ordered from:

Nerz Funktechnik
Ebinger Straße 60 • D-72393 Burladingen
Telephone +49 (0) 7475/1345 • Fax +49 (0) 7475/7010
http://www.nerz.com

The commissions paid out by the respective network providers for arranging a card contract will be passed on to the applicant (installer) via the company Nerz.

The appropriate application forms are enclosed with the RFW-3000.

Further applications:

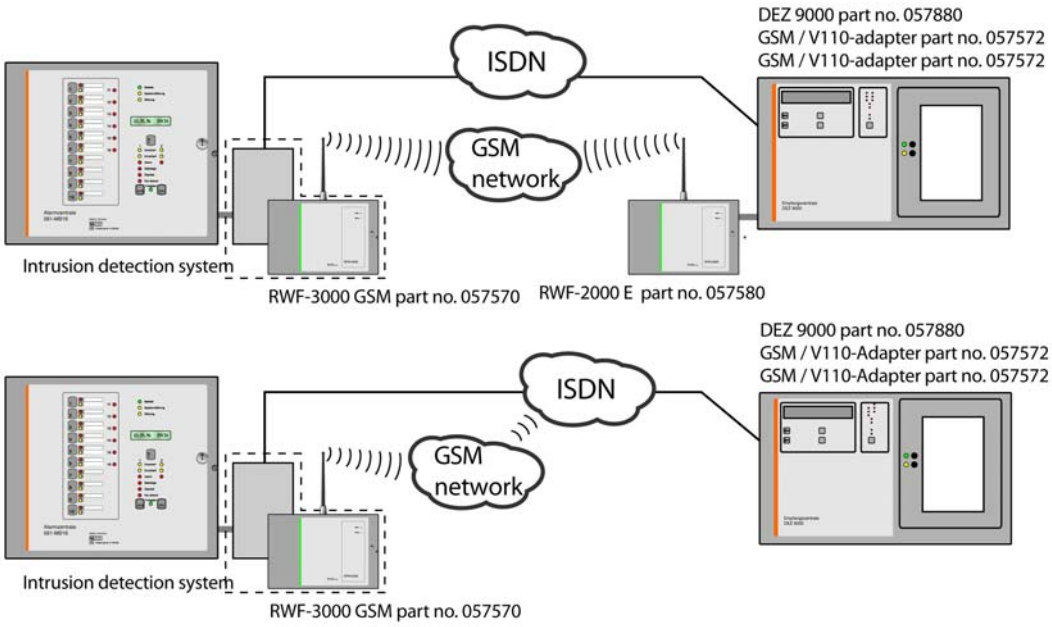
RFW-3000 GSM as "stand-alone" version

As "stand-alone" device, the RFW-3000 can be used in connection with an ISDN transmission device, if:

- the transmission of messages for a monitored object is required and
- no wire-bound telephone connection is available.

For example, this can be the case in: weekend homes, chalets, storage rooms, boats, portable buildings acc. to VDE 0100/0108, etc.

Only the top graphic meets the VdS requirements.



Connection option to a receiving station of a security service.

DEZ 9000 Alarm receiver

Performance Features

- up to 8 network access options
- Receiver modules for ISDN or TELIM-compatible transmission systems
- Connection via X.25/X.31 (ISDN D channel) or TCP/IP (Ethernet) allows a permanently active virtual connection to the connected premises
- Receiver module for TCP/IP (Ethernet) can be integrated
- VdS-compliant encryption of the transmission for premises connected via TCP/IP
- Receiver module for Datex-P can be integrated
- 4x40-digit alphanumeric LC display
- 40-digit thermal printer
- Different interface protocols for downstream control centre DIN 66019 (TSS 31)
- Configuration via control centre or via directly connectable PC keyboard
- Comfortable PC user interface including control centre functions (DEZ-WIN) included in the delivery (upload/download)
- Runs under Windows NT / 2000 / XP, Windows Vista 32-/64-bit version, Windows 7 32-/64-bit version
- Remote control of fault detectors/transmission devices possible
- Automatic remote inquiry (status inquiry)
- Stand-alone or 19" model
- Event memory having a minimum capacity of 20 events/premises
- Separate event memory for system activities, history memory
- User-definable text macros
- Extensive configuration options (printer, buzzer, routine call monitoring)
- Independent routine call monitoring possible
- Extensive statistics and diagnosis functions
- Reception via GSM networks D1 and D2 (in connection with ISDN receiver module and GSM adapter)

Accessories:

059200	Software update, German for DEZ 9000
059201	Software update, German for DEZ ISDN receiver module
059202	Software update, German for DEZ TELIM receiver module
059203	Software update, German for Datex-P receiver module

VdS Approval **G 196801 (IDT) transmission device**

The alarm receiver DEZ 9000 is used for message reception, registration and processing of alarms, faults and test messages from hazard and fault detection systems. The control panel has been designed as front end computer and "services concentrator" for a downstream remote control centre. If no control centre is available, the DEZ 9000 can be used as universal reception computer. Owing to the option of connecting an external computer (PC), a comfortable operating and configuration software having selected control centre functions is available in the form of the "DEZ-WIN" Windows program.

A 40-digit alphanumeric thermal printer for recording is available as a standard feature. This allows the operator continuous documentation of events that are not recorded by the downstream control centre or of events whose printout is absolutely necessary.

Its modular structure and performance makes the DEZ 9000 a device component that also meets the requirements resulting from the modern transmission media (e.g. ISDN) and complex information processing. The hardware requirements for receiving messages from GSM networks are provided by means of the RFW-2000 E (057580) module.

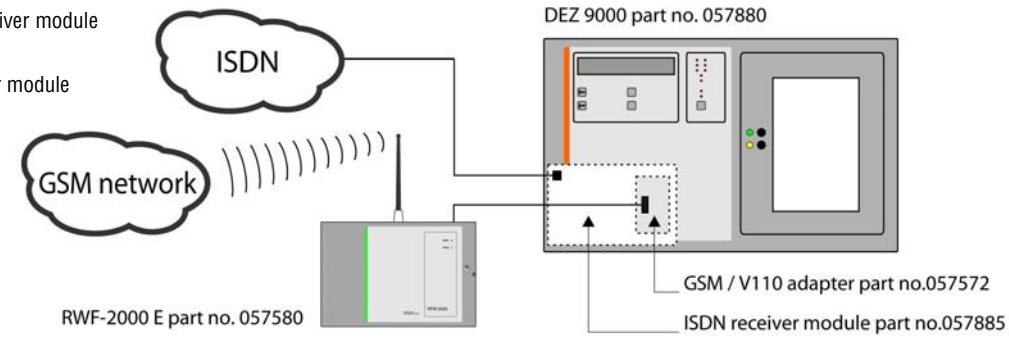
The RFW-2000 E essentially consists of a radio terminal and suitable connection components, installed in a steel sheet housing ZG 2, on which the required antenna has also been mounted. The RFW-2000 E is connected to the GSM / V.110 adapter included in the delivery, which can be plugged into an existing ISDN receiver module.

If a connection in accordance with VdS, in order to provide a replacement path on the control centre side, is not required, the RFW-2000 E module does not have to be used. In this case, the GSM / V.110 adapter (057572) is sufficient for receiving alarms via GSM networks. It is plugged into an existing ISDN receiver module.

Optional IP receiver modules allow the premises to be monitored to be connected to the DEZ 9000 via private or public IP networks. The transmission method used is the protocol "VdS 2465 for TCP/IP" required by the VdS.

Technical Data

Rated connection voltage	230 V AC
Connection voltage range	230 V AC / -15% to +10%
Frequency	50 Hz
Rated operating voltage	12 V DC
Rated operating voltage range	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Current consumption at rated voltage without modules, with 2 MB RAM	200 mA
Thermoprinter non-active	100 mA
Thermoprinter active	max. 600 mA
Telim receiver module stand-by	25 mA
Telim receiver module active	50 mA
ISDN receiver module stand-by	65 mA
ISDN receiver module active	65 mA
2 MB RAM extension	10 mA
Operating temperature range	-5°C to +45°C
Storage temperature range	-25°C to +70°C
Environmental class as per VdS	II
Type of protection	IP 30
Dimensions (W x H x D)	488 x 272 x 230 mm



Planning example

057880 DEZ 9000 alarm receiver in housing



VdS **Approval** **G196801 (IDT)**

Technical Data

Mains voltage	230 V AC/ -15% to + 10%
Mains frequency	50 Hz
Rated voltage	12 V DC
Rated operating voltage	10.5 V to 15 V DC
Battery charging voltage	13.8 V DC
Ambient temperature	-5°C to +45°C
Storage temperature range	-25°C to +70°C
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 30
Dimensions (W x H x D)	488 x 272 x 230 mm

In the housing, 4 receiver modules, power supply/charger unit, for example 010690.01 and 2 accumulators 6.5 Ah can be integrated.

40-digit thermal printer; 2 MB memory card; serial interface for connecting a remote control centre or an external computer (PC); includes “DEZ-WIN” PC user interface.

Phase-out date 31.12.2012.

057881 DEZ 9000 19” front plate 6 HE, installation in 19” cabinet



When assembled in a 19” housing, its full capacity can be achieved by incorporating 8 receiver modules.

40-digit thermal printer; 2 MB memory card; serial interface for connecting a remote control centre or an external computer (PC); includes “DEZ-WIN” PC user interface.

Phase-out date 31.12.2012.

057882 19” mounting plate



19” mounting plate for 4 receiver modules 6 HE, installation in 19” cabinet.

The mounting plate allows 4 receiver modules to be integrated in a 19” cabinet.

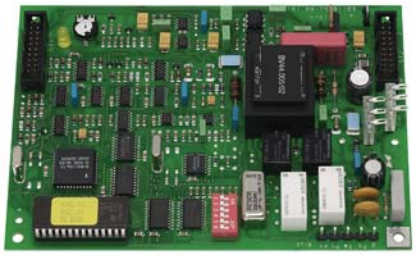
Accessories:

010690.01	Power supply/charger unit 12 V DC / 32 Ah
018004.10	12 V DC / 6.5 Ah accumulator
013901	Paper roll for thermal printer
018050	Replacement buffer battery
	3 V lithium round cell 950 m Ah, type CR 2477N
	Connecting cable
013100.10	Set of connecting cables 40/250 mm
013100.12	Connecting cable 250 mm
013100.11	Connecting cable 15.75 in
	ISDN connecting cables
057846	ISDN connecting cable including two Western connectors, 1.5 m
	Covering case
057551	Covering case for NTBA and terminal box

Phase-out date 31.12.2012.

Accessories

057883 TELIM receiver module for DEZ 9000



Receiver module for analog network access (analog telephone network, PSTN).

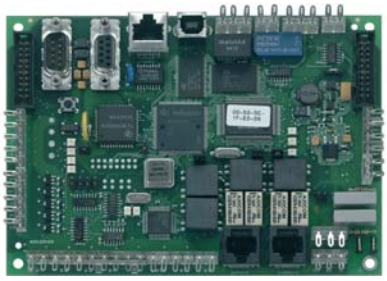
Telephone connecting cable.

057884 2 MB RAM extension for DEZ 9000



Required for more than 500 objects.

057888 IP receiver module for DEZ 9000



Receiver module for TCP/IP for network access via Ethernet.

Software

059200 **Software update, German for DEZ 9000**



059201 **Software update, German for DEZ ISDN receiver module**



059202 **Software update, German for DEZ TELIM receiver module**



059203 **Software update, German for Datex-P receiver module**



Notizen



Radio product line
- MB Radio System

MB radio system (BUS-2 user)

Performance Features

- Advanced radio transmission technology
- 2 radio bands: 433MHz / 868MHz
- A total of 24 radio channels distributed over 2 radio bands
- Wireless radio system on integrated BUS-2 basis
- Each radio user has a unique address.
- Radio polling to all bidirectional radio users
- Permanent monitoring of the availability of the radio transmission path
- Intelligent external signal monitoring for detecting radio signals that do not belong to the system
- Function monitoring of all radio users assigned to the system
- Tamper monitoring of all radio users
- Radio revision mode for determining the installation range
- Connection to intrusion detection central units via BUS-2 (MB12, 561-MB24, 561-MB48, 561-MB100 of Item no. Index .10 only)
- Simple commissioning by means of the installation mode of the WINFEM Advanced programming software

The new innovative radio system offers completely new opportunities of protecting human life and property values. Developed from the very start as a combined system, it is designed for securing privately owned homes, smaller and also larger commercial objects. In case of imminent danger, such as burglary, hold-up or even fires, it reliably signals an alarm via the alarm signalling devices of the connected intrusion detection control panel.

The radio system can be integrated into the following intrusion detection control panels: 561-MB12, 561-MB24, 561-MB48, 561-MB100.

The RF BUS-2 wireless receiver (Item no. 015600.01) is used as a radio gateway between the radio technology and the BUS-2. This is why no special radio intrusion detection control panel is required.

This innovative RF BUS-2 wireless receiver uses a bidirectional radio connection to establish communication with up to any 16 radio users. Each RF BUS-2 wireless receiver works as an autonomous radio cell in its transmission and reception range.

During commissioning of the radio system, the radio users are read in and assigned permanently to the RF BUS-2 wireless receiver by means of a unique address.

The commissioning and also the programming of the radio system is done conveniently via a PC/laptop using the parameterisation software WINFEM Advanced.

The devices item no. 015600, 015601, 015610 and 015620 will be changed in quarter 3/2011 to the follow-up products item no. 015600.01, 015601.01, 015610.01 and 015620.01 witch are compatible in function and housing.

015600.01 RF BUS-2 wireless receiver



VdS **Approval G108504 (IDT), Class B**

The RF BUS-2 wireless receiver is used for extending and supplementing compatible hazard detection systems that provide a BUS-2 (MB12/24/48/100.10). The RF BUS-2 wireless receiver allows a bidirectional radio alarm system of the most advanced radio technology to be set up and operated.

This RF BUS-2 coupler provides the functions of a gateway connected on one side to the hazard detection control panel by means of a wired BUS-2 connection. On the other side, the RF BUS-2 wireless receiver can then address up to any 16 radio users via the bidirectional radio connection.

Technical Data

Operating voltage U_b	12 V DC (power supply via BUS-2)
Current consumption	typ. 15 mA
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Range within open area	typ. 300 m
Installation position	any
Type of protection according to DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without antennae (W x H x D)	118 x 118 x 31 mm
Aerial (L)	75 mm and 135 mm
Colour	trafficwhite, similar to RAL 9016

015601.01 RF 4 I/O module



VdS **Approval G108505 (IDT), Class B**

Conventional detectors and contacts, for example passive glass breakage sensors, opening contacts, can be wired to the RF 4 I/O module. It also offers the option of addressing up to 4 outputs (by means of potential-free relay pcbs) and a buzzer.

The RF 4 I/O module can be supplied with power from batteries, a power supply unit or a combination of batteries and power supply unit. This allows a universal adaptation to different premises-specific surroundings and applications.

Performance Features

- 4 universal detector groups available
- 4-outputs optionally expandable by relay cards
- Connection of power supply unit possible
- Radio revision mode for determining the installation range
- Connection to intrusion detection control panels via RF BUS-2 wireless receiver
- Monitoring of battery status
- Permanent radio monitoring by radio polling

Technical Data

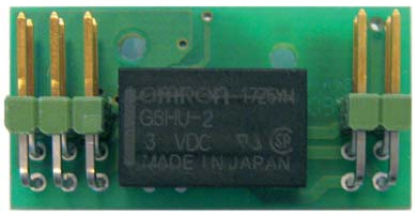
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Range within open area	typ. 300 m
Installation position	any
Type of protection according to DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature without batteries	-25 °C to +70 °C
Storage temperature with batteries	25 °C +/-10 °C
Dimensions without antennae (W x H x D)	200 x 144 x 39 mm
Aerial (L)	75 mm and 135 mm
Colour	trafficwhite, similar to RAL 9016
Battery mode	
Operating voltage U_b	2 battery packs, Item no. 015605
Battery life expectancy	typ. 3,5 years
Current consumption (without activations of the current consumers)	100 µA
Power supply mode	
Rated operating voltage range	10 V DC to 15 V DC
Current consumption in no-load operation (without activations of the current consumers)	10 mA

Batteries not included (2 required).

Accessories:

015605	Lithium battery for radio components, including a connecting cable, 2 cables required
015602	Relay card, 1 output for RF 4 I/O module (a maximum of 4 can be fitted)

015602 Relay card, 1 output for RF 4 I/O module, for MB radio system



Relay card, 1 output for RF 4 I/O module, provides a potential-free output.

Technical Data

Relay contact	normally open contact
Relay contact rating	30 V DC / 1 A

015630 RF Panic Button



The RF Panic Button can be used for the external and internal arming of the intruder alarm control panel (IACP).If programmed, the RF Panic Button can be used for transmitting a hold-up alarm as well as e. g. for switching on the outdoor illumination.

Operation is by commercially available button cell, type CR2032.

Technical Data

Power supply	Button cell, CR2032
Battery life expectancy	typ. 2 years
Quiescent current	typ. 5 µA
Current consumption transmitting	30 mA
Transmitting range in open space	typ. 150 m with unrestricted view
Type of protection DIN 40 050	IP 40
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-20 °C to +70 °C
Dimensions (W x H x D)	37 x 75 x 15 mm
Colour	greywhite, similar to RAL 9002

For operation at 015600.01 firmware version V01.06 or higher necessary

Number of usable RF Panic Button per panel:
MB 12 = 10 RF Panic Buttons
561-MB24 = 10 RF Panic Buttons
561-MB48 = 16 RF Panic Buttons
561-MB100 = 32 RF Panic Buttons

Battery CR2032 included.
Replacement requirement can be obtained from specialised trade for electrical equipment.

Performance Features

- 4 Buttons for "External arming", "Disarming", "Internal arming" and "Control"
- Hold up alarm / panic (2 buttons simultaneously)
- Every function individually to be activated in WINFEM
- 3 Control LEDs
- Optical display of correct wireless transmission
- Connection to intrusion detection control panels via RF BUS-2 wireless receiver
- Monitoring of battery status

015610.01 Viewguard PIR RF, radio PIR motion detector



Approval **G108506 (IDT), Class B**
G108508 (IDT), Class B, retrofitted for curtain optics
G108507 (IDT), Class B, retrofitted for route optics

Passive infrared motion detector with surface mirror optics in wireless radio technology. The radio technology used by means of the dual-band transmission mode guarantees maximum transmission safety.

Technical Data

Operating voltage U_b	1 battery pack, Item no. 015605
Battery life expectancy	typ. 2,5 years
Current consumption	typ. 65 µA
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Range within open area	typ. 300 m
Range	programmable
Volumetric optics	8 / 11 / 13 / 15 m
Long range optics	29 / 35 / 42 / 50 m
Curtain optics (vertical)	17 / 21 / 25 / 30 m
Sensitivity	programmable normal / high
Installation position	vertical, optics at the bottom
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature without batteries	-25 °C to +70 °C
Storage temperature with batteries	25 °C +/-10 °C
Dimensions (W x H x D)	64 x 158 x 48 mm
Colour	trafficwhite, similar to RAL 9016

Batteries not included (1 required)

Performance Features

- Surface mirror optics for monitoring 12 m x 12 m areas
- Can be retrofitted for route or curtain optics by replacing the mirror optics
- Detection sensitivity can be programmed from the control panel
- Range can be programmed from the control panel (mirror optics)
- LED display
- LED indications off mode possible
- Radio revision mode with selective LED display
- Temperature alarm with programmed alarm threshold
- Cover contact and tear-off protection
- Housing suitable for corner and wall mounting
- Monitoring of battery status
- Permanent radio monitoring by radio polling

Accessories:

015605	Lithium battery for radio components, including connecting cable
033434	Viewguard PIR set of mirrors, curtain optics (3 per packaging unit)
033435	Viewguard PIR set of mirrors, route optics (3 per packaging unit)
033390.17	Adjusting hinge, horizontal W 20°, vertical +4° to -8°
033588.17	Ball joint set for wall and corner mounting
033391.17	Seal, (20 per packaging unit)

015620.01 RF smoke detector base



Approval **VdS approval as technical detector (detector base + detector)**
G109510 (062092 Fixed temperature detector IQ8Quad)
G109511 (062093 Rate-of-rise heat detector IQ8Quad)
G109512 (062094 Optical smoke detector IQ8Quad)
G109513 (062095 O2T multi-sensor IQ8Quad)
G109514 (062096 OTG multi-sensor (CO) IQ8Quad)

The fire dectector base allows a fire detector of the IQ8Quard series to be operated on an intrustion detection panel. Connection to a hazard detection system is wireless via an RF-2 wireless receiver (015600.01).

Following combinations of automatic fire detector and smoke detector base are tested by VdS as technical detector.

Please order a suitable detector head for the detector base:

Item no.	Designation
062092	Fixed temperature detector IQ8Quad
062093	Rate-of-rise detector IQ8Quad
062094	Optical smoke detector IQ8Quad
062095	O2T intelligent detector IQ8Quad
062096	OTG intelligent detector IQ8Quad

Detector testing devices are available upon request.

Performance Features

- Detection and transmission of dirty or faulty smoke detectors
- Tamper detection (optional)
- VdS-compliant operation as technical detector
- Radio revision mode for determining the installation range
- Connection to intrusion detection control panels via RF BUS-2 wireless receiver
- Monitoring of battery status
- Permanent radio monitoring by radio polling

Technical Data

Voltage supply	4 batteries á 3,6 V
Battery life expectancy	typ. 2,5 to 5 years depending on detector head
Frequency band 1	433 MHz
Frequency band 2	868 MHz
Transmitting range	typ. 300 m with clear view
Type of protection DIN 40 050	IP 42 (with detector head)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature without batteries	-25 °C to +70 °C
Storage temperature with batteries	25 °C +/-10 °C
Dimensions with detector head (Ø x H)	135 x 88 mm
Colour	white, similar to RAL 9010

A fire detection system according to VDE 0833 part 2, DIN 14675 or EN 54 doesn`t result by the connection of the smoke detector base.

Batteries included.

Accessories:

015625 Battery pack, lithium, 4 x 3.6 V

Accessories

015605 Lithium battery for MB radio components



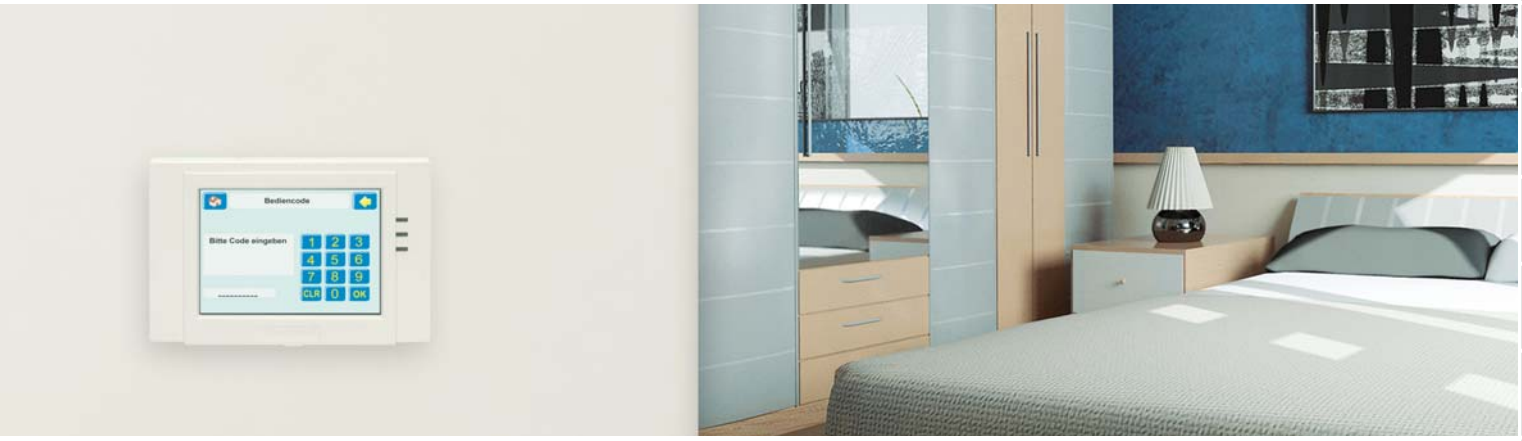
Lithium battery for radio components of the MB radio system, including connecting cable.

015625 Lithium batteries



4 Lithium batteries á 3.6 V

Notes



Display and operating units

- Operating App
- BUS-2 operating unit product line
- Compact operating units

MB-Remote Control App for Android

NEW



Performance Features

- Convenient visualization of system status
- Remote control of the system via a smartphone/ tablet
- Easy storage for as many systems as required
- Choice of 3 views
- Automatic, position-dependent view in portrait and landscape format
- Automatic size adjustment of the views
- 4 user groups per system to allow flexible rights allocation
- AES-encrypted connection is possible
- Free choice of switching routines via the button page in combination with macro activation in the control unit
- Freely definable configuration of the LEDs and buttons
- Connection to the control unit via WLAN, GPRS/UMTS
- Up to 3 active connections are possible
- Labels, display and control functions and display colours can be programmed in Winfem Advanced
- Settings for operation mode and installer mode
- Integrated rights management
- When used in stand-alone mode, connection to third-party devices is possible
- Stand-alone mode with BUS-2 master function

Visualization and control of the intruder detection unit via smartphone or smarttablet

Android app for mobile access to control units in the MB12/24/48/100 intruder detection range in combination with DS 7700, DS 6750 or DS 6700 transmission devices. In stand-alone mode, the dialing devices can also be used without a series-connected control unit.

You can establish a connection with your hazard alert system via WLAN or GPRS/UMTS from any remote location and at any time.

This app allows remote control and remote arming and/or disarming of your system. In addition, you can address pre-programmed inputs and outputs directly and display their status. Complex switching routines in the control unit can also be activated simply and rapidly via the freely definable buttons. Furthermore, the status displays, which are also freely configurable, can be set to display your choice of control unit conditions or inputs.

Up to 3 app connections can access a control unit or a transmission device simultaneously. If you have an internet connection at your disposal, you can gain immediate, high security access to your alarm system via AES encryption from any location, request status reports at your convenience and activate switching routines remotely.

Simple operation and the familiar control display make it very easy for operators to learn to use this application. The Android app is available as a free-of-charge download from Google Play on the Internet.

Benefits for operators:

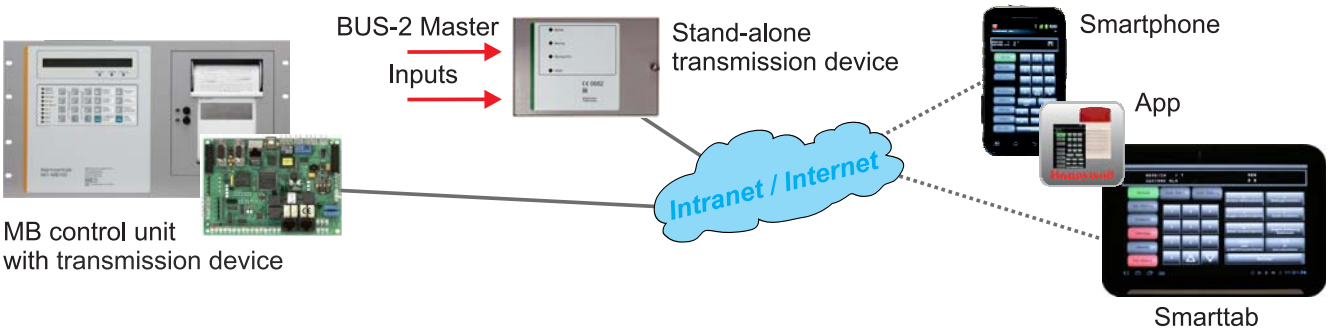
- Remote display and remote control of the intruder detection system
- Freely definable control function and status displays
- Display of responses from the control unit
- In the stand-alone mode for transmission devices, control routine initiation and visualization are possible for third-party units such as third-party control units, cooling systems, heating systems, air conditioning systems, etc.

Benefits for installers:

- Simplified maintenance with the aid of the mobile one-man revision facility and consequently reduced manpower requirements
- Remote service as a cost-efficient, additional service
- Mobile changes to an existing program at the customer's request

System Requirements:

Operating system	Android Version 2.1 or later
Hardware	Andriod-compatible Smartphone or Smarttablet
Control panel	MB12, 561-MB24/48/100 from V16.00
Transmission unit	DS 7700 from V06.00 or DS 67xx from V04.00
Programming software	WINFEM Advanced from V16.00
Internet access	via GPRS/UMTS or WLAN



013510 **Honeywell MB-Remote Control App for Android**

NEW

013515 **Honeywell MB-Remote Control App for iOS**

NEW

In preparation.

BUS-2 operating units for MB series

High quality requirements on operation and a modern design are the specifications on the development of the remote control and information systems for the intrusion detection control panels of the HB and MB series. The operating and information systems for internal operation are distinguished by a clear organisation of the operating and display elements and large-sized buttons and displays.

The connection to the intrusion detection control panels is made via the BUS-2 interface.

All operating and many programming functions can be carried out using this operating and display unit. Its high operating transparency is achieved, inter alia, by a 2 x 40-digit display with luminous background in certain situations and special function keys.

Complex operating or programming operations take place interactively, i.e. the operator is informed or instructed at any time by means of information or selection menus on the display.

In connection with the flush-mounting kit, a flush mounting can be realised.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V bis 15 V DC
Current consumption in no-load operation	60 mA
Current consumption with illuminated display	95 mA
Current consumption per LED	5 mA
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Dimensions (W x H x D)	196 x 142 x 42 mm

The modules 012542 /.17 and 012548 /.17 can only be operated in connection with an LCD operating unit 012540 /.17, 012541 /.17 or operating unit with disabling unit 012532 /.17, 012544 /.17.

012540 2 x 40-digit LCD operating unit, German version



VdS **Approval** **G194120 (IDT), Class C; VSÖ W031210/16 E**

Technical Data

Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

012540.17 2 x 40-digit LCD operating unit, German version

NEW



VdS **Approval** **G194120 (IDT), Class C; VSÖ W031210/16 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.F0.17 **2 x 40-digit LCD operating unit, French version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.G0.17 **2 x 40-digit LCD operating unit, English version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.HR.17 **2 x 40-digit LCD operating unit, Croatian version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.I0.17 **2 x 40-digit LCD operating unit, Italian version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.NL.17 **2 x 40-digit LCD operating unit, Dutch version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.P1.17 **2 x 40-digit LCD operating unit, Polish version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.RO.17 **2 x 40-digit LCD operating unit, Romanian version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.T0.17 **2 x 40-digit LCD operating unit, Czech version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.U0.17 **2 x 40-digit LCD operating unit, Russian / Cyrillic version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012540.W0.17 **2 x 40-digit LCD operating unit, Hungarian version**

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012541 2 x 40-digit LCD operating unit, German version



VdS **Approval** **G194120 (IDT), Class C; VSÖ W 031210/15 E**

Same as 012540, but without flap, flat housing.

Technical Data

Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

012541.17 2 x 40-digit LCD operating unit, German version

NEW



VdS **Approval** **G194120 (IDT), Class C; VSÖ W 031210/15 E**

Same as 012540.17, but without flap, flat housing.

Technical Data

Colour	trafficwhite, similar to RAL 9016

012541.F0.17 2x40-stelliges LCD-Bedienteil, aP, French version

NEW

French marking of the keypad, display language support is panel setting dependent.

Technical Data

Colour	trafficwhite, similar to RAL 9016

012541.G0.17 2 x 40-digit LCD operating unit, English version

NEW

English marking of the keypad, display language support is panel setting dependent.

Technical Data

Colour	trafficwhite, similar to RAL 9016

012541.P1.17 2 x 40 character LCD operating unit, Polish version

NEW

Polish marking of the keypad, display language support is panel setting dependent.

Technical Data

Colour	trafficwhite, similar to RAL 9016

012541.U0.17 2x40 digit LCD operating devicel, s.m., Russian / Cyrillic version

NEW

Russian marking of the keypad, cyrillic display language support.

Technical Data

Colour	trafficwhite, similar to RAL 9016

012550 3-wire flat-band cable



Operating unit/control panel connecting cable, 3 m, including plug.

For programming of control panels via 012540 / 012541.

16-DG display module and operating unit / 8-DG compact operating unit

High quality requirements on operation and a modern design are the specifications on the development of the remote control and information systems for the intrusion detection control panels of the HB and MB series. The operating and information systems for internal operation are distinguished by a clear organisation of the operating and display elements and large-sized buttons and displays.

The connection to the intrusion detection control panels is made via the BUS-2 interface.

All operating and many programming functions can be carried out using this operating and display unit. Its high operating transparency is achieved, inter alia, by a 2 x 40-digit display with luminous background in certain situations and special function keys.

Complex operating or programming operations take place interactively, i.e. the operator is informed or instructed at any time by means of information or selection menus on the display.

In connection with the flush-mounting kit, a flush mounting can be realised.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V bis 15 V DC
Current consumption in no-load operation	25 mA
Current consumption per LED	5 mA
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Dimensions (W x H x D)	196 x 142 x 32 mm

012542 16-DG disable and display module



VdS **Approval** **G194121 (IDT), Class C; VSÖ W 031210/17 E**

The module enables simple operation of up to 16 detector groups. For each detector group, an indication LED for the “Alarm” and “Disabled” states and a disabling key are available.

Rapid identification of an alarm site is achieved by plain text labelling fields for each detector group. The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Colour	greywhite, similar to RAL 9002

When using with an IACP, only in connection with 012540/.17, 012541/.17 or 012532/.17, 012544/.17 or for indication of up to 16 doorguard devices 041460/.17.

Sale of remainder while stock last.

012542.17 16-DG disable and display module

NEW



VdS **Approval** **G194121 (IDT), Class C; VSÖ W 031210/17 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

012548 16-DG display module



VdS **Approval** **G198047 (IDT), Class C; VSÖ W 070427/75 E**

For each detector group, one indication LED each for the “Alarm” and “Disabled” states and a plain text labelling field are available.

The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Colour	greywhite, similar to RAL 9002

When using with an IACP, only in connection with 012540/.17, 012541/.17 or 012532/.17, 012544/.17 or for indication of up to 16 doorguard devices 041460/.17.

Sale of remainder while stock last.

012548.17 16-DG display module

NEW

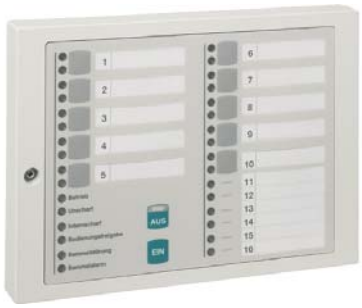


VdS **Approval** **G198047 (IDT), Class C; VSÖ W 070427/75 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

012544 16-DG operating unit (10 DGs can be disabled)



VdS **Approval** **G194122 (IDT), Class C; VSÖ W 070427/74 E**

The operating unit contains the following operating and display elements: Set of keys for Disable/Enable detector groups 1-10; ON/OFF key (various functions); LEDs for detector groups 1-10 “disabled”; LEDs for detector groups 1-16 “Alarm”; LEDs for operation, disarmed, internally armed, enable, fault and alarm; integrated buzzer.

The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

012544.17 16-DG operating unit (10 DGs can be disabled)

NEW



VdS **Approval** **G194122 (IDT), Class C; VSÖ W 070427/74 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

012544.G0.17 16-DG operating unit (10 detector groups can be disabled)

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

012532 8-DG compact operating unit with disabling unit



VdS **Approval** **G194123 (IDT), Class C; VSÖ W 031210/20 E**

The operating unit contains the following operating and display elements: Set of keys for Disable/Enable detector groups 1-8; ON/OFF key (various functions); displays for detector groups 1-8 “disabled”; LEDs for detector groups 1-8 “Alarm”; LEDs for operation, disarmed, internally armed, enable, fault and alarm; integrated buzzer.

The inscription labels can be easily printed with customer-specific texts by means of WINFEM Advanced.

Technical Data

Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

012532.17 8-DG compact operating unit with disabling unit

NEW



VdS **Approval** **G194123 (IDT), Class C; VSÖ W 031210/20 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

012546 Flush-mounting and extension kit

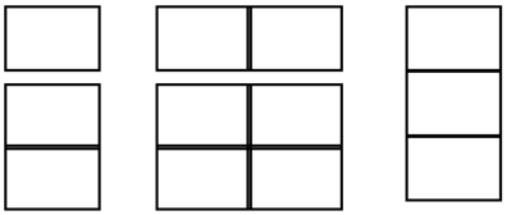


The surface-mounted components can be converted for flush mounting by means of the flush-mounted housing and the flush-mounted cover frame. Any combinations are possible.

Technical Data

Dimensions of housing (W x H x D)	220 x 168 x 35 mm
Dimensions frame (WxH)	235 x 180 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.



Example of possible flush-mounted arrangements

012546.17 Flush-mounting and extension kit

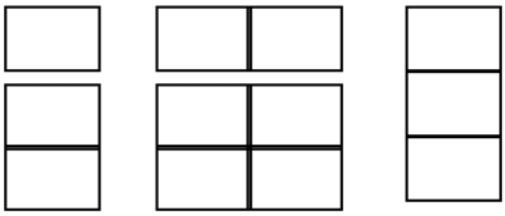
NEW



The surface-mounted components can be converted for flush mounting by means of the flush-mounted housing and the flush-mounted cover frame. Any combinations are possible.

Technical Data

Colour	trafficwhite, similar to RAL 9016



Example of possible flush-mounted arrangements

012577.10 TouchCenter TFT BUS-2 graphic operating unit



VdS **Approval G108077 (IDT)**

The newly developed graphic operating unit TouchCenter BUS-2 with colour touch screen can be used in combination with the intrusion detection control panels of the series MB100, MB48, MB24, MB12 and the MB256 plus. It is connected to the control panel via BUS-2. Essential for the operation and display of the system information of a hazard detection system are reliability, quick understanding of information and operating comfort. They are important requirements in daily use, ideally met by the TouchCenter.

The TouchCenter BUS-2 operates your hazard detection system dialog-guided. The desired operating function can be selected and executed directly by touching the display area on the touch screen. Clearly labelled buttons and additional symbols provide maximum ease of use. The 3 LEDs on the front show the corresponding operating states of the device, even when the graphic display is not active. Further status and operating information is displayed clearly labelled and arranged.

In addition, the elegant TouchCenter in modern design has a switchable display colour scheme. This allows the user to adapt the operating unit largely to personal ideas and the environment. The TouchCenter gets an optical appreciation by use as a electronic picture frame. Project-related programming of the intrusion detection control panel and of the TouchCenter is done via a PC/laptop using the WINFEM Advanced software package. If the TouchCenter requires a VdS approval, the operating unit can be upgraded accordingly by the VdS kit for TouchCenters (Art. No. 012578).

Performance Features

- Dialog managed intuitive user guidance via symbols
- Plain text display of all messages
- Clearly organised display of the system status
- Connection to the control panel via BUS-2
- 5,7” colour display with touch screen function
- Switchable display colour scheme
- Flash technology for updates
- Different languages possible
- Graphic can be displayed as background image (e.g. company logo/family coat of arms)
- Optical appreciation by use as electronic picture frame
- Slideshow functionality
- Max. size of SD card: 16 GB
- Up to 12 operating units can be connected to one control panel

Software requirements:

561-MB100* / HB24 / HB48* / MB24 / MB48 (1-RAM Version)	V08.16
561-MB100* / HB24 / HB48* / MB24 / MB48 (2-RAM Version), V08.16 or...	V09.12
if performance features of the V09 are required WINFEM Advanced	V07.13
561-MB256 plus	V03.18
WINFEM Advanced	V07.13

Note:

*Item no. of MB100 and HB48 with index .10

Technical Data

Rated operating voltage	12 V DC (power supply via BUS-2)
Operating voltage range	10 V to 15 V DC
Current consumption in no-load operation	96 mA
Current consumption low illumination at 12 V DC	150 mA
Current consumption mid illumination at 12 V DC	190 mA
Current consumption high illumination at 12 V DC	210 mA
Current consumption buzzer	90 mA (Buzzer and LEDs additional to display)
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +60 °C
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 40
Dimensions housing (W x H x D)	184 x 129 x 34 mm
Dimensions with VdS-Kit (B x H x T)	184 x 129 x 40 mm
Colour	white, similar to RAL 9010
Display colour scheme	switchable (blue, green, light brown)

Not for use with the loop module BUS-2, Art. No. 013220.07.10.

As-delivered the TouchCenter BUS-2 only includes a simple mounting frame.
When installed according to VdS, the VdS kit for TouchCenters must be used.

Different FM mounting kits für the TouchCenter item no. 012577.10 are available at:

Goldstrass Sicherheitstechnik GmbH

Head office:
August Thyssen Str.15 · D-47166 Duisburg
Phone: +49 (0) 2 03 - 40 61 372
Fax: +49 (0) 2 03 - 40 61 379
info@goldstrass.de · www.goldstrass.de

Branch:
Klappekuhlstr. 9 · D-47574 Goch
Phone: +49 (0) 28 23 - 9 29 97 - 0
Fax: +49 (0) 28 23 - 9 29 97 - 79

Haumann Sicherheitstechnik GmbH
Eichenstr. 2 · D-71292 Friolzheim
Phone: +49 (0) 70 44 - 4 12 72 · Fax: +49 (0) 70 44 - 4 39 14
info@haumann-gmbh.de · www.haumann-gmbh.de

WSK-Ivatec GmbH
Daimlerring 7a · D-65205 Wiesbaden
Phone: +49 (0) 61 22 - 80 09 - 0 · Fax: +49 (0) 61 22 - 80 09 - 7
mail@wsk-ivatec.de · www.wsk-ivatec.de

Please note, that the above mentioned companies are not part of Novar GmbH and a separate contract must be placed.

Novar GmbH is in no case responsible for products or services of those companies.

012578 **VdS kit for TouchCenter**



Used for mounting the TouchCenter according to VdS using a mounting frame with lockin option. Moreover, the enclosed glue can be used to close the housing flap.

As-delivered the TouchCenter BUS-2 only includes a simple mounting frame.
When installed according to VdS, the mounting frame of this VdS kit must be used.

The VdS kit includes a mounting frame, plastic adhesive and VdS sealing label for installation according to VdS and a seal.

012575.10 Comfort Touch Colour BUS-2 operating and display panel



The Comfort Touch Colour is a high-quality and innovative operating and display panel for the intrusion detection control panels MB12, HB/MB24, HB/MB48, MB100 and MB256 plus. The system is operated dialog-led and intuitively via a touch-sensitive colour screen (touch screen). Any system information is displayed clearly and comprehensively.

The operating and display panel is programmed using the control panel parameterisation software WINFEM Advanced.

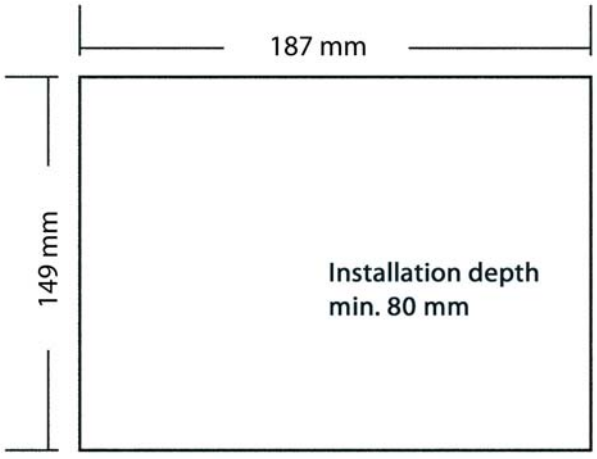
It is connected via BUS-2.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 27 V DC
Quiescent current at 12V DC	170 mA
Current consumption illuminated at 12 V DC	540 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-10 °C to +60 °C
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 40
Dimensions (W x H x D)	235 x 180 x 84 mm (incl. mounting frame)
Colour	Satin aluminium

Information for project planning:
The power supply of the Comfort Touch Colour must come from an external power supply.
The power supply must not come from the BUS-2!

Mounting frame for hollow-wall or flush-mounting.



To be able to mount the Comfort Touch Colour by means of the mounting frame, an installation opening of suitable size must be provided.
The installation depth must be sufficient.

The compact operating units are used as display and operating units with the control panels of the AB series and the HB/MB24 and HB/MB48. The connection to the control panels is made via the easy to install 3-wire technologie.

If not in use the operator panel is covered with a flap.

010935 Compact operating unit for IACP HB/MB24 and HB/MB48



VdS **Approval** **G198053 (IDT), Class C; VSÖ W031210/14 E**

This operating unit allows you to carry out all operating procedures, such as internal arming/disarming, disabling detector groups or clearing alarms.

LEDs for the criteria operation, disarmed, internally armed, operation enable, and collective alarm are available. Operation and display are possible with or without code input.

Technical Data

Operating voltage	12 V DC
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load operation	25 mA
Current consumption with buzzer	30 mA
Current consumption per LED	7 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class according to VdS	II
Type of protection DIN 40 050	IP 40
Dimensions (L x W x D)	100 x 192 x 34 mm
Colour	greywhite, similar to RAL 9002

A maximum of 4 operating units can be connected.

010920.10 Compact operating unit for the IACP series 100-AB8



VdS **Approval** **G196061 (IDT), Class C; VSÖ W 031210/13 E**

The operating unit allows you to carry out all operating procedures, such as internal and/or external arming/disarming, disabling detector groups or clearing alarms.

Likewise, this operating unit allows a large portion of the control panel programming to be carried out. The available LED displays include those for the criteria operation, disarmed, accumulator fault, alarm zone 1, alarm zone 2, hold-up alarm, tamper alarm, fault, internally armed, fire alarm and fault telephone line. Operation and display are possible with or without code input.

Technical Data

Operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption in no-load operation	25 mA
Current consumption with buzzer	30 mA
Current consumption per LED	7 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Dimensions (L x W x D)	100 x 192 x 34 mm
Colour	greywhite, similar to RAL 9002

A maximum of 4 operating units can be connected.

Phase-out date 30.09.2012.

Notizen



Connection modules

- BUS-2

- BUS-1

List of BUS users

Article No.	Designation	Dimensions W x H x D	I_R (typ.)	Required address space
BUS-1				
033370/71/72	PIR detector SCM 2000	57 x 138 x 49	2.5 mA	- 1 -
033401/04/07	PIR detector SCM 3000	57 x 138 x 49	4 mA	- 1 -
032420	DETEKT 1000	73 x 100 x 43	4 mA	- 1 -
010116 /.17	Active distributor module	85 x 109 x 30	2.5 mA	- 1 -
010109.10 /.17	1-detector group module	85 x 109 x 30	4 mA	- 1 -
010110.10 /.17	2-detector group module	85 x 109 x 30	5 mA	- 2 -
010118 /.17	2 detector group module, flush-mounted version	Ø 54 x 32	5 mA	- 2 -
041150.10 /.17	Switching module 24 V DC/1 A	85 x 109 x 30	0.5 mA	- 1 -
041151.10 /.17	Switching module 250 V AC/5 A	85 x 109 x 30	0.5 mA	- 1 -
010111	Universal connection module, surface-mounted version	41 x 48 x 16	2 mA	- 1 -
010112 /.17	Universal connection module, flush-mounted version	Ø 54 x 32	2 mA	- 1 -
022310.10 /.17	Door module 1 (for block lock)	118 x 118 x 31	15 mA	- 3 -
031540	Hold-up button module	79 x 115 x 50	0.5 mA	- 1 -
042235 /.17	Indoor flasher	85 x 87 x 34	8.5 mA	- 1 -
043050	Module for indoor siren, BUS-1[1)]	79 x 115 x 50	0.5 mA	- 1 -
043060 /.17	Piezo indoor siren	85 x 87 x 34	4 mA	- 1 -
010125	BUS-1 operating unit key-operated lock	85 x 123 x 56	2.8 mA	- 2 -
BUS-2/BUS-1				
010120 /.17	DUO I/O-Module BUS-2/BUS-1	Ø 58 x 26	5 mA (+0.6 per input)	4 / 1
010128	2 Detector group module BUS-2/BUS-1, f. m.	Ø 58 x 26	5 mA (+0.6 per input)	2 / 1
010130	DUO I/O-Module BUS-2/BUS-1, s. m.	85 x 109 x 30	5 mA (+0.6 per input)	4 / 1
010135	2 Detector group module BUS-2/BUS-1, s. m.	85 x 109 x 30	5 mA (+0.6 per input)	2 / 1
062090	Smoke Detector Base BUS-2/BUS-1	Ø 117 x 25	3 mA	- 1 -
032211.10 /.17	IDENTLOC EU BUS-2 / BUS-1	118 x 118 x 31	12 mA (+3 mA per sensor)	5 / 1
033332.20 /.21	Viewguard PIR BUS-2/BUS-1	64 x 130 x 48	0.6 mA (BUS-2) 3.0 mA (BUS-1)	- 1 -
033432.20 /.21	Viewguard PIR AM BUS-2/BUS-1	64 x 130 x 48	0.6 mA (BUS-2) 3.0 mA (BUS-1)	- 1 -
033442.20 /.21	Viewguard DUAL AM BUS-2/BUS-1	64 x 158 x 48	6.6 mA (BUS-2) 9.0 mA (BUS-1)	- 1 -
033443.20 /.21	Viewguard DUAL BUS-2/BUS-1	64 x 158 x 48	6.6 mA (BUS-2) 9.0 mA (BUS-1)	- 1 -
BUS-2				
013128 /.17	Isolation module	85 x 109 x 30	3 mA	- 1 -
013130.10 /.17	5-input module	118 x 118 x 31	6 mA	- 1 -
013131.10 /.17	5-output module	118 x 118 x 31	3 mA	- 1 -
013133	Mini module	40 x 18 x 13	1 mA	- 1 -
022160.20	IDENT-KEY IK2 evaluation unit	118 x 118 x 31	50 mA	- 1 -
023312.10 /.17	IDENT-KEY IK3 evaluation unit	118 x 118 x 31	15 mA	- 1 -
010935	Compact keypad	100 x 192 x 34	25 mA	- 1 -
012540 /.17	2 x 40-digit LCD operating and display panel	196 x 142 x 42	60 mA	- 1 -
012541 /.17	2 x 40-digit LCD operating and display panel	196 x 142 x 42	60 mA	- 1 -
012544 /.17	10-detector group operating and display panel	196 x 142 x 42	25 mA	- 1 -
012532 /.17	8-detector group operating and display panel	196 x 142 x 42	25 mA	- 1 -
012542 /.17	16-detector group operating and display panel	196 x 142 x 42	25 mA	- 1 -
012548 /.17	16-detector group display module	196 x 142 x 42	25 mA	- 1 -
012575.10	Comfort Touch Colour operating and display panel	207 x 152 x 84	170 / 390 mA[3)]	- 1 -
012577.10	TouchCenter praphic operating unit	184 x 129 x 34	115 mA / 160 mA	- 1 -
015600 /.01	RF BUS-2 wireless receiver	118 x 118 x 31[2)]	15 mA	- 1 -
041450 /.17	Doorguard Plus BUS-2	110 x 243 x 53	15 mA	- 1 -

Legend: [1)] = in surface-mounted single housing [2)] = without antenna [3)] = without / with display illumination

013130.10 5-input module BUS-2



VdS **Approval** **G199087 (IDT), Class C; VSÖ W 031210/25 E**

The 5-input module is a BUS-2 user which 5 differential detector groups with 12.1 kOhm end-of line resistor can be connected to. For each input, a clear function can be selected for autosaving sensors. The input module also contains 5 red LEDs for detector group indication, an integrated cover contact and a buzzer which can be activated either statically or in an interval, as desired.

Performance Features

- 5 differential detector groups can be connected
- 5 red LEDs for detector group indication
- Integrated cover contact
- Buzzer

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V bis 15 V DC
No load current, all inputs open	6 mA
No load current, all inputs closed	8.5 mA
Maximum current, LEDs on, buzzer active	22.5 mA
Maximum current, clear all inputs	47 mA
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

013130.17 5-input module BUS-2

NEW



VdS **Approval** **G199087 (IDT), Class C; VSÖ W 031210/25 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

013131.10 5-output module BUS-2



VdS **Approval** **G199088 (IDT), Class C; VSÖ W 031210/26 E**

The 5-output module is a BUS-2 user containing 5 semiconductor outputs of 12 V DC / 50 mA, whose functions can be defined via the connected control panel. The 5-output module also contains an integrated cover contact and a buzzer which can be activated either statically or in an interval, as desired.

Performance Features

- 5 semiconductor outputs
- Integrated cover contact
- Buzzer

Technical Data

Operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
No load current at U_Nenn, all outputs inactive	3 mA
Current consumption at U_nenn, All outputs active, buzzer on, no consumer	24 mA
Current consumption at U_nenn, All outputs active and short-circuited	350 mA
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

013131.17 5-output module BUS-2

NEW



VdS **Approval** **G199088 (IDT), Class C; VSÖ W 031210/26 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

013128 BUS-2 isolation module



VdS **Approval** **G106006 (IDT), Class C; VSÖ W 070427/73 E**

The BUS-2 isolation modules can be used to set up, in connection with the BUS-2 loop module (item no. 013220.07.10), a BUS-2 loop and/or stitch system, which is distinguished by a particularly high operating reliability.

Use in the loop: When an error occurs in the BUS-2 loop, only the defective portion is disconnected, all other users remain fully functional.

Use in the stitch: If isolation modules are used in a BUS-2 stitch, the BUS remains fully functional up to the isolation module closest to the fault location.

A maximum of 8 isolation modules may be used per loop and stitch.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at U_b	<3 mA
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	greywhite (similar to RAL 9002)

A BUS-2 loop topology can be set up using the current control panels HB/MB48 and MB100. Applicable in conjuncion with BUS-2 ring module 013220.07.10 only.

Sale of remainder while stock last.

013128.17 BUS-2 isolation module

NEW



VdS **Approval** **G106006 (IDT), Class C; VSÖ W 070427/73 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

013133 Mini module BUS-2



The BUS-2 mini module allows a detector with conventional connection technology to be integrated in a BUS-2 system. All required messages (alarm, fault, tamper) can be transmitted to the control panel via the three logic inputs.

Three outputs allow the functional control of the connected detector:

Output 1:	armed/disarmed
Output 2:	walk test
Output 3:	freely programmable

For all 3 outputs, the output signal can be adjusted to the time behaviour of the detector via a pulse model. The mini module is mounted in the housing of the detector.

Technical Data

Operating voltage	12 V DC (from BUS 2)
Operating voltage range	10 V to 15 V DC
Current consumption BUS-2	
No-load current: inputs connected to 0 V, outputs not driven:	500 µA
No-load current: inputs open, outputs not driven:	1 mA
Maximum current: inputs open, outputs driven and short-circuited:	37 mA
Connections for BUS-2	4-pole terminal
Connections for Detector	potted 6-wire flat cable length approx. 140 mm
Max. output source current	10 mA
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without cable (W x H x D)	40 x 18 x 13 mm

Can be used in the current panels MB12, HB/MB24, HB/MB48 and MB100.

010120 DUO I/O module BUS-2/BUS-1, flush-mount



VdS **Approval G109010 (IDT), Class C**

The DUO I/O module has the function of detector group modules and control modules. It can be operated either on BUS-2 or BUS-1.

The 4 detector group inputs with clearing function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

In addition, the module has 2 semiconductor outputs for any switching and control functions (max. 30 V DC / 50 mA per output). The operating voltage used for the external consumers can be the voltage from the module or from an external power supply, depending on the application.

Higher switching capacities (up to 250 V AC / 8 A) are possible in connection with the DUO relay module.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module, switching module or universal connection module, as desired
- 4 detector group inputs with clearing function
- Optional end-of-line resistors selectable 10k or 12k1
- 4 LEDs as detector group status display or with freely programmable function (depending on the operating mode). Externally visible or with individual cover as desired.
- 2 semiconductor outputs, open collector, LOW active
- The two outputs are activated in parallel to LEDs 1 and 2
- Freely programmable In operation as DUO I/O module
- Easy mounting in flush-mounted installation box or hollow-wall box d=60 mm (DIN, Austria and Switzerland)
- Combined operation with DUO relay module for high switching capacities

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, + 0.6 mA per terminated detector group, + 1.3 mA per LED
Detector zone input	with clearing function, monitoring area 12k1 +-20%
Semiconductor output	max. 30 V DC, 50 mA, open collector, LOW active
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-5 °C to + 45 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (ØxD)	Module: 58 x 26 mm
Dimensions (L x W x D)	Frame: 70 x 70 x 1 mm
Colour of front plate	greywhite (similar to RAL 9002)

Corresponding screw driver.
1 module cover frame.
4-hole-foil.

Sale of remainder while stock last.

010120.17 DUO I/O module BUS-2/BUS-1, flush-mount

NEW



VdS **Approval G109010 (IDT), Class C**

Technical Data

Colour of front plate	trafficwhite (similar to RAL 9016)

010130 DUO I/O Modul BUS-2/BUS-1, s.m.

NEW



VdS **Approval pending**

The DUO I/O module has the function of detector group modules and control modules. It can be operated either on BUS-2 or BUS-1.

The 4 detector group inputs with clearing function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

In addition, the module has 2 semiconductor outputs for any switching and control functions (max. 30 V DC / 50 mA per output). The operating voltage used for the external consumers can be the voltage from the module or from an external power supply, depending on the application.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module, switching module or universal connection module, as desired
- 4 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 4 LEDs as detector group status display or with freely programmable function (depending on the operating mode)
- 2 semiconductor outputs, open collector, LOW active
- The two outputs are activated in parallel to LEDs 1 and 2
- Freely programmable In operation as DUO I/O module

Technische Daten

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Semiconductor output	max. 30 V DC, 50 mA, open collector, LOW active
Type of protection DIN 40 050	IP 40
Environmental class	II
Operating temperature range	- 5 °C to + 45 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (L x W x D)	85 x 109 x 30 mm
Colour	trafficwhite, similar to RAL 9016

010135 2 Detector group module BUS-2/BUS-1, s.m.

NEW



VdS **Approval pending**

This module is a further addition to the range of detector group and control modules. The 2 detector group inputs with clearing function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

The module can be operated at either BUS-2 or BUS-1.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module or universal connection module, as desired
- 2 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 2 LEDs as detector group status display or with freely programmable function (depending on the operating mode)

Technische Daten

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Type of protection DIN 40 050	IP 40
Environmental class	II
Operating temperature range	- 5 °C to + 45 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (L x W x D)	85 x 109 x 30 mm
Colour	trafficwhite, similar to RAL 9016

010128 2 Detector group module BUS-2/BUS-1, f.m.

NEW



VdS **Approval pending**

This module is a further addition to the range of detector group and control modules. The 2 detector group inputs with clearing

function allow detectors with conventional connection technology to be integrated to the BUS system (e.g. contacts and passive glass breakage sensors).

The module can be operated at either BUS-2 or BUS-1.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	5 mA, 0.6 mA in addition per detector group, 1.3 mA in addition per LED
Detector zone input	with clear function, monitoring range 12k1 ±20%
Type of protection DIN 40 050	IP 40
Environmental class	II
Operating temperature range	- 5 °C to + 45 °C
Storage temperature range	-25 °C to + 70 °C
Dimensions (ØxD)	Module: 58 x 26 mm
Dimensions (L x W x D)	Frame: 70 x 70 x 1 mm
Colour of front plate	trafficwhite, similar to RAL 9016

Available as of November 2012.

Performance Features

- Operation on BUS-2:
  - Operation as DUO I/O module
  - Operation as 5-input module (compatibility mode)
- Operation on BUS-1:
  - Operation as detector group connection module or universal connection module, as desired
- 2 detector group inputs with clearing function
- Optional end-of-line resistors selectable from 4k to 14k
- 2 LEDs as detector group status display or wit freely programmable function (depending on the operating mode)
- Easy mounting in flush-mounted installation box or hollow-wall box d=60 mm (DIN, Austria and Switzerland)

010121 DUO relay module 230 V AC/8 A, flush-mounted



VdS **Approval G109011 (IDT) Class C**

The module has the function of switching modules.

The two relays can be activated via the outputs of the DUO I/O module or, alternatively, via any other control voltage (“stand alone”)

In a combination with the DUO I/O module, the two modules are installed in flush-mounted boxes mounted directly adjacent to each other. For this application, a double cover frame is available.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V bis 15 V DC
Current consumption at 12 V DC	18.3 mA per actuated relay coil
Switching contacts	2 switching contacts, potential free
Max. switching capacity	250 V AC/8 A / 30 V DC/5 A
Minimum switching capacity	5 V DC/10 mA
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-10 °C bis + 55 °C
Storage temperature range	-25 °C bis + 70 °C
Dimensions (ØxD)	Module: 58 x 26 mm
Dimensions (L x W x D)	Mounting frame: 70 x 70 x 1 mm
Colour of front plate	greywhite, similar RAL 9002

1 module cover frame. 4-hole-foil.

Sale of remainder while stock last.

Performance Features

- Both relays are activated via the DUO I/O module or an independent control voltage (stand alone)
- 2 relay outputs each having a potential-free switchover contact
- Wide range of switching capacities 5 V DC / 10 mA to 250 V AC / 8 A
- 2 LEDs for status indication. Externally visible or with individual cover as desired.
- Easy mounting in flush-mounted installation box or hollow-wall box d=60 mm (DIN, Austria and Switzerland)

010121.17 DUO relay module 230 V AC/8 A, flush-mounted

NEW



VdS **Approval G109011 (IDT) Class C**

Technical Data

Colour of front plate	trafficwhite, similar RAL 9016

010123 2-module cover frame for DUO-IO/relay module



2-module cover frame for DUO-IO/relay module for use with two modules mounted next to each other.

Technical Data

Dimensions (L x W x D)	151 x 80 x 5 mm
Colour	greywhite (similar to RAL 9002)

2 pieces 2-module cover frames.

Sale of remainder while stock last.

010123.17 2-module cover frame for DUO-IO/relay module

NEW



2-module cover frame for DUO-IO/relay module for use with two modules mounted next to each other.

Technical Data

Dimensions (L x W x D)	151 x 80 x 5 mm
Colour	trafficwhite, similar to RAL 9016

2 pieces 2-module cover frames.

010124 Decorative foil for DUO module



Replacement decorative foil set for DUO-IO/relay module.

Technical Data

Dimensions (L x W x D)	80 x 80 x 5 mm
Colour	greywhite (similar to RAL 9002)

Four 4-hole foils, one 2-hole foil.

Sale of remainder while stock last.

010124.17 Decorative foil for DUO module

NEW



Replacement decorative foil set for DUO-IO/relay module.

Technical Data

Dimensions (L x W x D)	80 x 80 x 5 mm
Colour	trafficwhite, similar to RAL 9016)

Four 4-hole foils, one 2-hole foil.

Fire detector base

062090 **Smoke Detector Base BUS-2/BUS-1**



Performance Features

- Connection to intrusion detection control panels via BUS-2 and BUS-1 coupling
- High immunity to deceptive alarms through highly advanced sensor technology and microprocessor in each fire detector
- Automatic self-monitoring of the fire detectors for function and state
- Smoke detector base constructed easy-to-install and suitable for practice
- Optimised warehousing for installer since there is only one device for both bus systems
- Variable use of detector product line
- Tamper monitoring in case of unauthorised detector removal
- Integrated detector lock
- Elegant design, for installation to a wide range of ceiling constructions and ceiling components
- Lateral cable entry or through base plate possible
- Simple set-up using by means of WINFEM Advanced programming software

VdS **Approval** **VdS approval as technical detector (detector base + detector)**
G109020 (062092 Fixed temperature detector IQ8Quad)
G109021 (062093 Rate-of-rise heat detector IQ8Quad)
G109022 (062094 Optical smoke detector IQ8Quad)
G109023 (062095 O2T multi-sensor IQ8Quad)
G109024 (062096 OTG multi-sensor (CO) IQ8Quad)

The fire detector base allows the fire detection in connection with an intrusion panel suitable for connecting devices via BUS-1 or BUS-2.

Such a system constellation is particularly suitable for premises in which building regulations do not require a fire detection system, but fire detection seems a good idea, in order to protect persons or property values. Especially in the private sector, for freelancers or smaller business firms.

The combination of base and fire detector makes it possible to individually select and use a fire detector in accordance with the premises-specific properties of the fire risk.

The high-quality fire detectors of the IQ8Quad series meet the latest technical requirements of modern early fire detection. Each detector is equipped with a microprocessor for intelligent signal and measured value processing. This allows each fire detector to adjust itself automatically to any changing environmental conditions, such as soiling or ageing, without changing the sensitivity of detection. A large number of alarm signalling options previously only possible by using a fire detection control panel can now be incorporated in the programming and alarm signalling functions of the intrusion detection control panel.

The start-up and programming of the system is done conveniently via a PC/laptop using the parameterisation software WINFEM Advanced.

Software requirements:

MB 12	from V15.00 [1]
561-MB100* / HB24 / HB48* / MB24 / MB48 (1 and 2-RAM Version)	from V07.00 [1]
561-MB256 plus	from V02.06 [1]
561-MB100* / HB24 / HB48* / MB24 / MB48 (2-RAM Version)	from V10.xx [2]

*Item no. of MB100 and HB48 with index .10

[1] At the BUS-1, the smoke detector base BUS-2/BUS-1 is compatible with the detector group module and at the BUS-2 compatible with the 5-input module.

[2] The type of module (smoke detector base) will be automatically detected when programming.

Please order a suitable detector head for the detector base:

Item no.	Designation
062092	Fixed temperature detector IQ8Quad
062093	Rate-of-rise heat detector IQ8Quad
062094	Optical smoke detector IQ8Quad
062095	O2T multi-sensor detector IQ8Quad
062096	OTG multi-sensor detector IQ8Quad

(see chapter detectors)

Detector testing devices are available on request with the fire departement in Neuss.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption at rated voltage	max. 4 mA
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 42 (with fire alarm detector)
Dimensions (Ø x H)	117 x 25 mm (117 x 62 mm with fire alarm detector)
Colour	white (similar to RAL 9010)

A fire detection system according to VDE 0833 part 2, DIN 14675 or EN 54 doesn`t result by the connection of the smoke detector base.

Detector group modules

The modules allow conventional detector technology to be connected to the BUS-1 system technology. The modules provide one or two differential detector groups equipped with 12k1 terminating resistors that work independently of one another. Per detector group, up to 20 passive glass breakage detectors and/or contacts can be connected.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC bis 15 V DC
Detector group end-of-line resistor	12 k1 +/-1%
Sensitivity	max. +/-20 %
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Environmental class as per VdS	II

010109.10 BUS-1 1-detector group connection module



VdS **Approval** **G191082 (IDT), Class C; VSÖ W 031210/21 E**

Technical Data

Current consumption at U_b=12 V DC	
terminated detector group	< 4 mA
open detector group	< 3 mA
additional per LED	2 mA
during clearing	< 16 mA
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

010109.17 BUS-1 1-detector group connection module

NEW



VdS **Approval** **G191082 (IDT), Class C; VSÖ W 031210/21 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

010110.10 BUS-1 2-detector group connection module



VdS **Approval** **G191083 (IDT), Class C; VSÖ W 031210/22 E**

Technical Data

Current consumption at U_b=12 V DC	
terminated detector group	< 5 mA
open detector group	< 3 mA
additional per LED	2 mA
during clearing	< 28 mA
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

010118 BUS-1 2-detector group connection module, flush-mounted



VdS **Approval** **G102032 (IDT), Class C**

Can be installed in a flush-mounted installation box or a flush-mounted hollow-wall box (Ø = 55 mm)

Technical Data

Current consumption at U_b=12 V DC	
terminated detector group	< 5 mA
open detector group	< 3 mA
Additional per LED	2 mA
during clearing	< 28 mA
Dimensions (WxH)	80 x 80 mm
Colour	greywhite, similar to RAL 9002

Phase-out date 31.12.2012.

Replacement 010128, available as of November 2012.

010116 BUS-1 distributor module



VdS **Approval** **G194038 (IDT), Class C; VSÖ W 070427/12 E**

The distributor module allows several BUS-1 lines to be connected star-shaped to one distributor point. One BUS-1 input and 4 outputs are available for this. As an additional option, a differential detector group (end-of-line resistor 12.1 kOhm) with LED display has been integrated in the distributor module.

The housing is monitored by a cover contact.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Quiescent current	0.9 mA
Detector zone active	15 mA
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Type of protection DIN 40 050	IP 40
Environmental class as per VdS #2	II
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

010116.17 BUS-1 distributor module

NEW



VdS **Approval** **G194038 (IDT), Class C; VSÖ W 070427/12 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Door module

022310.10 BUS-1 door module 1 for conv. block lock connection



VdS **Approval** **G194034 (IDT), Class C**

This module allows to set up all types of monitoring and enable of doors.

For the enable, block locks (conventional connection), safety operating units or door code devices or operating device having the same functions can be connected.

The connection and actuation for a blocking element, load current door strike, no-load current door strike or impulse controlled door strike is also integrated.

Also included in this overall concept are inputs for lock release, bolt switching contact, opening contact, glass breakage sensor and an additional tamper input. Each connection can be operated autonomously.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	7 mA
Magnet activated	150 mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (H x W x D)	118 x 118 x 30 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

022310.17 BUS-1 door module 1 for conv. block lock connection

NEW



VdS **Approval** **G194034 (IDT), Class C**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Universal connecting module

The modules have been developed specifically for the adaptation of sensor and detectors in conventional connection technology to the BUS-1 system. An additional option is to activate an signalling device via a semiconductor output, i.e., an additional parallel display or an alarm device can be activated.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC bis 15 V DC
Quiescent current	2 mA
Semiconductor output	50 mA
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Environmental class as per VdS	II

010111 BUS-1 Universal connection module, built-in version



Technical Data

Current consumption	max. 15 mA
Dimensions (W x H x D)	55 x 48 x 16 mm

010112 BUS-1 Universal connection module, flush-mounted version



VdS **Approval** **G197059 (IDT), Class C; VSÖ W 070427/13 E**

Can be installed in a flush-mounted installation box or a flush-mounted hollow-wall box (Ø = 55 mm).

Technical Data

Current consumption	max. 9 mA
Dimensions (WxH)	80 x 80 mm
Colour	purewhite, similar to RAL 9010

Switching modules

The switching modules can be used for individual switching tasks. When a switching module is to be activated is defined in the system programming of the control panel. Two models of different switching powers are available. The integrated relays are equipped with change-over contacts.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC bis 15 V DC
Quiescent current	0,5 mA
Parallel indicator	max. 20 mA, extern
Operating temperature range	-5 °C bis +45 °C
Storage temperature range	-25 °C bis +70 °C
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Dimensions (W x H x D)	85 x 109 x 30 mm

041150.10 BUS-1 switching module, 24 V DC / 1 A



VdS **Approval** **G191085 (IDT), Class C; VSÖ W 070427/45 E**

Technical Data

Current consumption	21 mA, with Relais
Maximum switching capacity	24 V / 1 A (Relais)
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

041150.17 BUS-1 switching module, 24 V DC / 1 A

NEW



VdS **Approval** **G191085 (IDT), Class C; VSÖ W 070427/45 E**

Technical Data

Current consumption	21 mA, with Relais
Maximum switching capacity	24 V / 1 A (Relais)
Colour	trafficwhite, similar to RAL 9016

041151.10 BUS-1 switching module, 250 V DC / 5 A



VdS **Approval** **G191086 (IDT), Class C**

Technical Data

Current consumption	40 mA, with Relais
Maximum switching capacity	230 V / 5 A (Relais)
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

041151.17 BUS-1 switching module, 250 V DC / 5 A

NEW



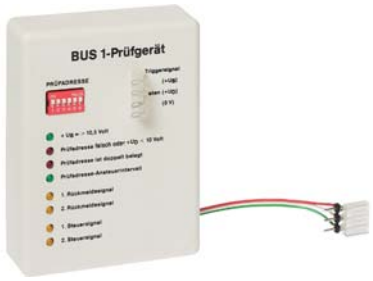
VdS **Approval** **G191086 (IDT), Class C**

Technical Data

Current consumption	40 mA, with Relais
Maximum switching capacity	230 V / 5 A (Relais)
Colour	trafficwhite, similar to RAL 9016

Accessories

010138 BUS-1 tester



The BUS-1 tester allows all addresses to be tested for their transmission states and levels from any location on the BUS-1 branch.

The evaluated data are displayed optically. Measuring points outside the housing are available for measurement with an oscilloscope.

Flush-mounted housing program

The flush-mounted housing program also allows conneting modules of housing dimensions of W 85 x H 109 x D 30 mm to be flush-mounted.

050304 Flush-mounted basic housing cover, without LED opening



For 041150.10 and 041151.10.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050304.17 Flush-mounted basic housing cover, without LED opening

NEW



For 041150.10 and 041151.10.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	trafficwhite, similar to RAL 9016

050305 Flush-mounted basic housing cover, 1 LED opening



For 010109.10, 010116 and 032158.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050305.17 Flush-mounted basic housing cover, 1 LED opening

NEW



For 010109.10, 010116 and 032158.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	trafficwhite, similar to RAL 9016

050306 Flush-mounted basic housing cover, 2 LED openings



For 010110.10.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050306.17 Flush-mounted basic housing cover, 2 LED openings

NEW



For 010110.10.

Technical Data

Dimensions (W x H)	105 x 129 mm
Colour	trafficwhite, similar to RAL 9016

050302 Flush-mounted housing



For housing covers 050304, 050305 and 050306.

Technical Data

Dimensions (W x H x D)	92 x 116 x 35 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050302.17 Flush-mounted housing

NEW



For housing covers 050304, 050305 and 050306.

Technical Data

Dimensions (W x H x D)	92 x 116 x 35 mm
Colour	trafficwhite, similar to RAL 9016



Switching devices

- IDENT-KEY evaluations
- Locking elements
- Line of locks
- Cylinder program
- Key switch
- Security operating units

IK3

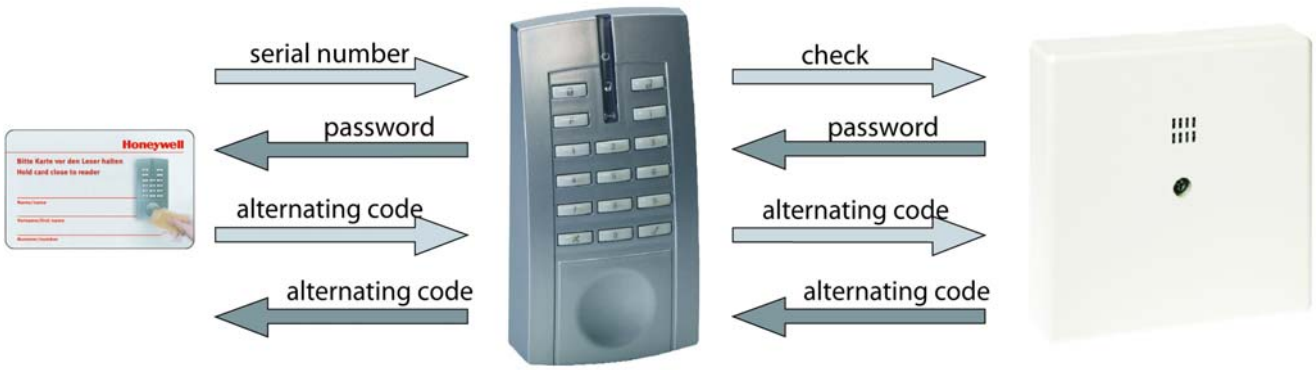
Performance Features

- Arming/disarming of an intrusion detection system
- Access control functions
- Operation via data carrier and/or pin code
- Unambiguous identification and recording
- Contactless and thus wear-resistant data, information and energy transmission
- Maximum safety through alternating code method, encrypted transmission (according to the new VdS and BSI guidelines) and evaluation exclusively in the protected area
- Individual pin for each data carrier / user
- Management of access control functions, such as the allocation of user entitlements in time zones
- Alarm in case of threat through hold-up code
- Programmable control functions can be loaded via keyboard
- Replaceable housing face plates (plug-in)
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- Largely compatible with IDENT-KEY 2 IK2 system
- For use with mifare or LEGIC readers in “Accentic” design
- For use with mifare or IK3 Fingerkey readers
- For use with Classic readers equipped with RS-485
- For use with Insertic readers equipped with RS-485

Switching device with encrypted data transmission

IDENT-KEY IK3 works with an alternating code system. For detection and checking the entitlement, the operating unit will first read the serial number of a data carrier and pass it on to the evaluating unit (EU) for inspection. There the number is checked as to whether the data carrier is registered in the control centre and is entitled. This is followed by a double exchange of an alternating code between EU and transponder.

- A transponder cannot be copied as only the serial number can be read in the first step. Access to the alternating code area is only possible after a successful login by password.
- No preprocessing of the data in the reader. Any processing is done in the secured zone of the evaluating unit.
- An alternating code sequence will not take place until the corresponding transponder has been registered in the control centre and is entitled.
- Tap-proof through encrypted transmission and transmission in several data packets.



Alternating code sequence (schematic)

023312.10 IK3 evaluating unit for BUS-2



VdS **Approval** **G104028 (IDT), class C; Z105008 (AC), class C; VSÖ W 070427/28 E**

The IK3 evaluating unit for BUS-2 allows a combination between mechanical locking technology and electronic data and information transmission.

The IDENT-KEY system allows an allocation to time zones and recording of the locking times and key numbers. The operating unit is not a direct switching device, but it rather performs the functions of a reading unit. A preliminary decision about arming/disarming is made in the evaluating unit, which passes this decision on to the control centre. In the disarmed state, a door locked by a door strike can be released via the reader and/or a key (access control function).

When using IDENT-KEY as the arming/disarming device, a suitable locking device must be used (e.g. electromechanical locking element), which prevents accidental access to an armed area. The activation is done by the control centre via the evaluating unit.

To monitor the door, a bolt switching contact, an opening contact and a passive glass breakage sensor can be connected directly to the EU and do not have to be wired back individually to the intrusion detection system (low mounting effort).

Additional “Wireless access control system” with electronic armatures DLF online and/or Digital locking zylinders DLC online as readers. The system communicates with the EU via Trafficpoint RS-485. One EU can be equipped with up to 8 “radio doors” with access control function incl. individual authorizations.

The programming of the application-specific data (e.g. key numbers, time-dependent entitlements, etc.) can be done directly via the intrusion detection control panel (LCD operating unit, software module WINFEM, IQ MultiAccess or IQ SystemControl). WINFEM User (MB256plus) or IQ SystemControl (MB24/48/100.10) allows end customers to make changes to a limited extent and to allocate access rights.

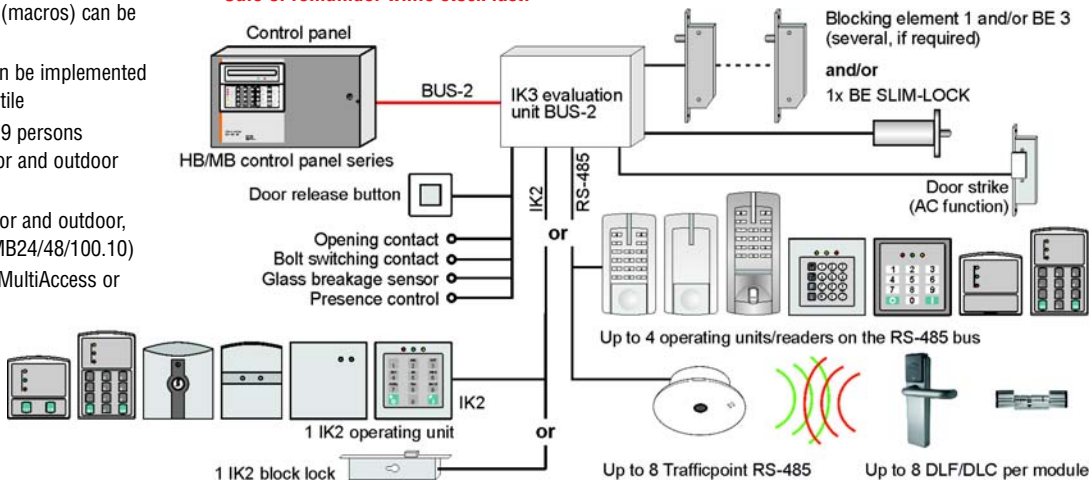
Performance Features

- Core saving 3-wire-BUS-technique
- Switching devices in the IK3 mode:
  - Up to 4 readers can be connected via the RS-485 interface, types mixed as desired
  - Additional up to 8 Trafficpoints RS-485 can be connected for a wireless AC-system
- Switching devices in the IK2 compatibility mode:
  - 1 IK2-operating unit of any type
  - or 1 IK2-block lock
  - or 1 reader via the RS-485 interface
- RS-485 reader interface having a range of up to 1,200 m
- Alternating code method according to VdS 2119
- Connection possibilities:
  - Blocking element 1 and/or BE 3 (several) and/or BE SLIM-LOCK (1x). The bolt end positions are monitored with all types.
  - No-load- / load current or impulse controlled door strike connectable with monitoring- and armature contact (AC function)
  - Opening contact
  - Bolt switching contact
  - Passive glass breakage sensor
  - Contact for presence control
  - Push button for door release
- Hold-up alarm
- Up to 100 control functions (macros) can be defined
- Person separating device can be implemented via person interlock or turnstile
- Multiple person AC of up to 9 persons separately possible for indoor and outdoor (MB24/48/100.10)
- Different AC criteria for indoor and outdoor, also as a function of time (MB24/48/100.10)
- Control of AC release by IQ MultiAccess or IQ SystemControl possible (MB24/48/100.10)
- Firmware update via BUS-2 (MB24/48/100.10) or directly

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Output voltage	12 V DC, short circuit resilient, current limited to 200 mA
Quiescent current	< 15 mA (maximum value)
Current consumption	typ. 25 mA (EU + all inputs + IK3 reader)
Relay contact rating	max. 2 A, 30 V AC/DC, 30 VA
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Storage temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.



023312.17 IK3 evaluating unit for BUS-2

NEW



VdS **Approval** **G104028 (IDT), class C; Z105008 (AC), class C; VSÖ W 070427/28 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

023350.10 Door controller module for MB



VdS **Approval** **G110049 (IDT), class C; Z110004 (AC), class C**

Door controller module for connection of “Accentic” oder “Classic” readers to intruder alarm contol panels with BUS-2 technique.

The door controller module enables access control function of a door within a secured area.

Additional “Wireless access control system” with Electronic armatures DLF online and/or Digital locking zylinders DLC online as readers. The system communicates with the DCM via Trafficpoint RS-485 (see below). One DCM can be equipped with up to 8 “radio doors” with access control function incl. individual authorizations.

Operationg of HB/MB panel series via the BUS-2 system.

AC functions via:
- Transponder
- PIN
- PIN and/or Transponder

To each individual user individual time zones can be allocated via the intruder alarm control panel.

An individual PIN can be allocated to each transponder.

Performance Features

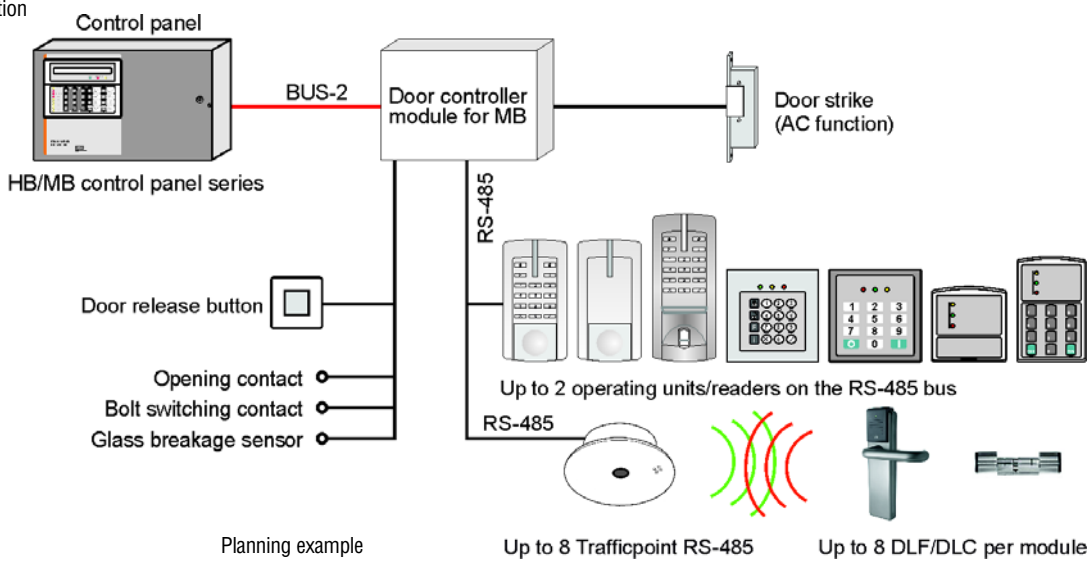
- Core saving 3-wire-BUS-technique
- Up to 2 readers can be connected via the RS-485 interface, types mixed as desired.
- Additional up to 8 Trafficpoints RS-485 can be connected for a wireless AC-system
- RS-485 reader interface having a range of up to 1,200 m
- Alternating code method according to VdS 2119
- Connection possibilities:
  - No-load- or load current door strike with monitoring contact
  - Opening contact
  - Passive glass breakage sensor
  - Bolt switching contact
  - Push button for door release
- Hold-up alarm
- Up to 100 control functions (macros) can be defined
- Application-related data (e.g. key numbers, authorization (date/time) etc.) are programmed directly via the intrusion control panel with WINFEM Advanced
- Firmware update via BUS-2

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Output voltage	12 V DC, short circuit resilient, current limited to 200 mA
Quiescent current	< 15 mA (maximum value)
Current consumption	typ. 25 mA (module + all inputs + IK3 reader)
Relay contact rating	max. 2 A, 30 V AC/DC, 30 VA
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Storage temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

No blocking element connectable.

Sale of remainder while stock last.



Planning example Up to 8 Trafficpoint RS-485 Up to 8 DLF/DLC per module

023350.17 Door controller module for MB

NEW



VdS **Approval** **G110049 (IDT), class C; Z110004 (AC), class C**

Technical Data

Colour	trafficwhite, similar to RAL 9016

No blocking element connectable.

023310 Conventional IK3 evaluating unit



VdS **Approval** **G106073, class C; VSÖ W 070427/29 E**

The conventional IK3-evaluating unit can be used for control panels equipped with block lock connection. Up to four readers can be connected to the evaluating unit via the RS-485 interface. Alternatively, 1 IK2-operating unit of any type or 1 IK2-block lock can be used.

Another option is to connect the locking elements 1 and/or 3 (if desired, several of them) and/or 1 locking element SLIM-LOCK.

The IDENT-KEY system allows an allocation to time zones and recording of the locking times and key numbers. In the disarmed state, a door locked by a door strike can be released via the operating unit and/or a key (access control function).

The programming of the application-specific data (e.g. key numbers, time-dependent entitlements, etc.) can be done directly at the evaluating unit via WINFEM Advanced).

Both arming and access control functions can be carried out by pin, card or the pin/card combination.

Performance Features

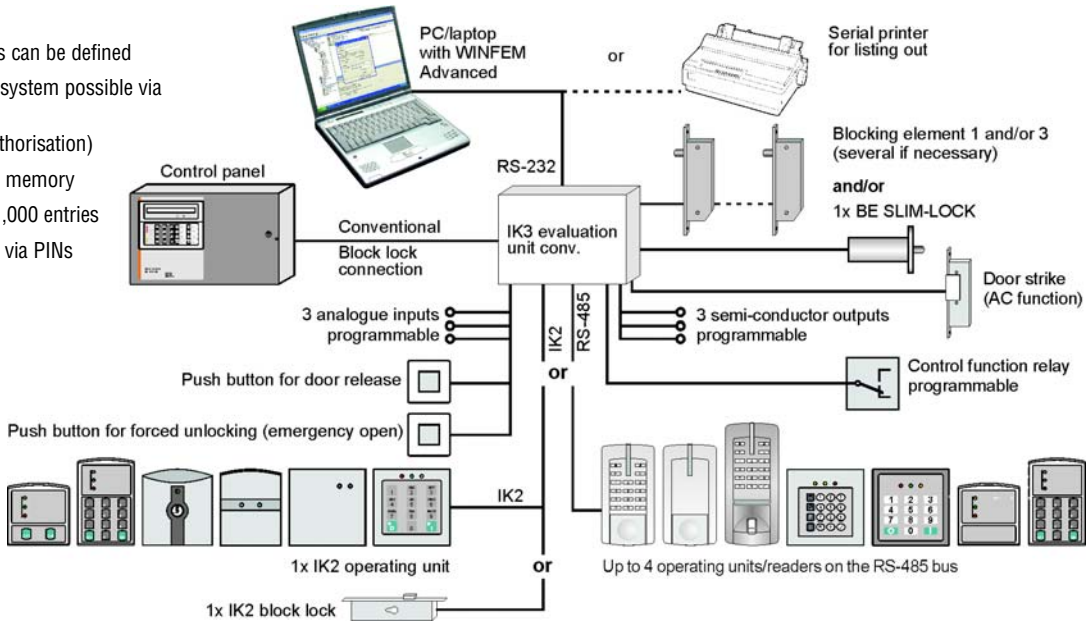
- Up to 4 readers can be connected via the RS-485 interface, types mixed as desired
  - or 1 IK2-operating unit of any type
  - or 1 IK2-block lock
- RS-485 interface having a range of up to 1,200 m
- Alternating code method according to VdS 2119
- Connection possibilities:
  - Blocking element 1 and/or BE 3 (several) and/or BE SLIM-LOCK (1x). The bolt end positions are monitored with all types.
  - No-load- or load current door strike connectable with monitoring- and armature contact (AC function)
  - Opening contact
  - Bolt switching contact
  - Push button for door release
  - Push button for forced unlocking (emergency open)
- Hold-up alarm
- Up to 16 control functions can be defined
- Bank personal protection system possible via programming of the EU (2-door ACS with joint authorisation)
- Firmware update via flash memory
- Event memory for up to 1,000 entries
- Manages up to 512 users via PINs

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Output voltage	12 V DC, short-circuit proof, current limited to 200 mA
Quiescent current	< 15 mA (maximum value)
Current consumption	typ. 25 mA (EU + IK3 reader)
Relay contact rating	max. 2 A, 30 V AC/DC, 30 VA
Relay contact rating, Fault Relay	max. 0,5 A, 30 V AC/DC, 10 VA
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Dimensions (W x H x D)	196 x 142 x 32 mm
Colour	greywhite, similar to RAL 9002

The conventional IK3 evaluation unit combined with suitable operating units allows the functions of a door code control unit according to VdS to be set up.

Sale of remainder while stock last.



023310.17 Conventional IK3 evaluating unit

NEW



VdS **Approval** **G106073, class C; VSÖ W 070427/29 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

The conventional IK3 evaluation unit combined with suitable operating units allows the functions of a door code control unit according to VdS to be set up.

019038.10 Blocking element SLIM-LOCK



VdS **Approval** **G 104039 (IDT), class C**

SLIM-LOCK prevents access to an armed zone of an intrusion detection system, thus preventing false alarms.

Technical Data

Operating voltage range	4 V to 6 V DC (provided by control unit)
Operating voltage	max. 9 V DC (for test purpose only)
Actuation time	max. 2 sec.
Quiescent current	0 mA
Current consumption	on actuation < 200 mA (average value for ca. 0,5 sec)
Bolt locking time	< 250 ms
Bolt path	> 12 mm
Bolt shearing force	> 1 kN sideways (with max. 4 mm clearance between door frame and door leaf)
Installation position	arbitrary
Cable connection	Length 6 m, Ø < 2,5 mm
Type of protection DIN 40 050	IP 65 in fitted condition
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (Ø x L)	Housing: 14 x 50,2 mm
Dimensions (W x H)	Flange: 16 x 41 mm

Performance Features

- The smallest and most powerful product on the market.
- Time-saving and simple installation (standard wood drill)
- Fits almost all doors, windows and cabinets. There are no country-dependent restrictions because of different door sizes
- Extremely high mechanical stability through metal housing
- 2-wire connection
- Activation via a microprocessor-controlled control unit with monitoring of the bolt position
- Automatic correction when bolt is mechanically obstructed during unbolting or bolting of the lock.
- No closed-circuit current

The IK3 evaluating unit 023312.10 /.17, conventional IK3 evaluating unit 023310 /.17 and the conventional control unit 019039 /.17 can be used as control unit.
1 SLIM-LOCK can be connected to all control units.

019039 Conventional control unit SLIM-LOCK, surface-mounted



VdS **Approval** **G105132 (IDT), class C; VSÖ W 070427/35 E**

This control unit makes it possible to use a SLIM-LOCK blocking element in conventional connection technology. The control unit is activated from an intrusion detection control panel in the same way as the locking elements 1 or 2 are used.

Technical Data

Rated operating voltage U_b	12 V to 24 V DC
Operating voltage range	8 V to 30 V DC
Continuous current drain	
- outputs programmed in pulse mode	< 1 mA
- outputs programmed in continuous duty	< 2 mA
- during bolt operation	typ. 200 mA for approx. 500 ms
Current-carrying capacity output	max. 20 mA per output
Control signals	static or puls > 200 ms
Input voltage range	up to 30 V DC
Programming options	
- Inputs	LOW-active, HIGH-active or toggle operation
- Outputs	LOW-aktiv, HIGH-aktiv, permanent actuation or impulse 1 sec
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 109 x 30 mm
Colour	greywhite, similar to RAL 9002

Performance Features

- Extremly large operating voltage range
- Activation by static, dynamic, HIGH or LOW active signals
- Activation also possible by change-over switch or push-button (toggle operation)
- Monitored bolt position
- Outputs for bolt end positions “open”, “closed” and “fault”. HIGH or LOW active, static or impulse.

Sale of remainder while stock last.

019039.17 Conventional control unit SLIM-LOCK, surface-mounted

NEW



VdS **Approval** **G105132 (IDT), class C; VSÖ W 070427/35 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

019030.20 Electro-mechanical blocking element 1 plus



VdS **Approval** **G195097 (IDT), class C; VSÖ W 070427/72 E**

The electro-mechanical locking element prevents access to the armed zone of an intrusion detection system.

The use of a locking element allows an intrusion detection system to be armed by means of several arming device at any desired location.

Access to the secured zone can be prevented or allowed at one or several places.

Performance Features

- Simple mounting in door frame with counter unit in door leaf
- Activation dynamically or statically
- Electric and mechanical emergency locking possible
- Semiconductor outputs for bolt end positions available

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption in no-load	4 mA
Mean current consumption	approx. 130 mA, max. 0.6 sec.
Output current	carrying capacity (high active): max. 20 mA
Installation position	any
Cable length	4 m
Fastener bolt	ø 8.0 mm
Bolt path	min. 10 mm
Bolt shearing force	> 1 kN sideways (with max. 4 mm clearance between door frame and door leaf)
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	18 x 140 x 32 mm
Face plate	(replaceable) Standard dimension 20 x 2 x 188 mm

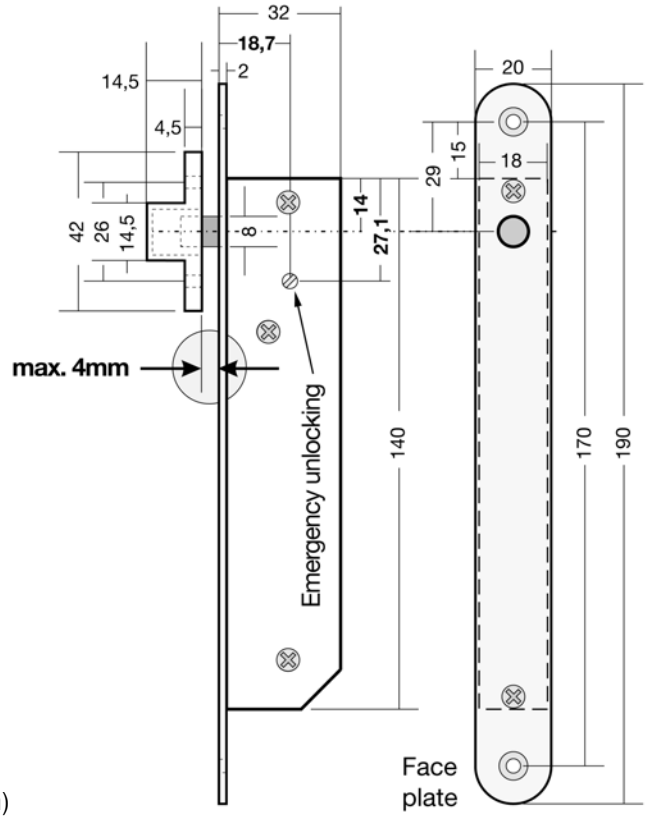
Counter unit with flange 019022; threaded sleeve 019020.

019033 Electro-mechanical blocking element SE 1 plus / magnetic contact



VdS **Approval** **G195097 (IDT), class C;**
G103521 (IDT), class B for magnetic contacts;
VSÖ W 070427/72 E

Same as article 019030.20, but with integrated magnetic contact for opening monitoring without additional contact.



Dimensions (mm)

019032 Electro-mechanical blocking element 3



Approval **G104003 (IDT), class C;**
G104503 (IDT), class B for magnetic contacts;
Z104003 (AC), class C; VSÖ W 070427/69 E

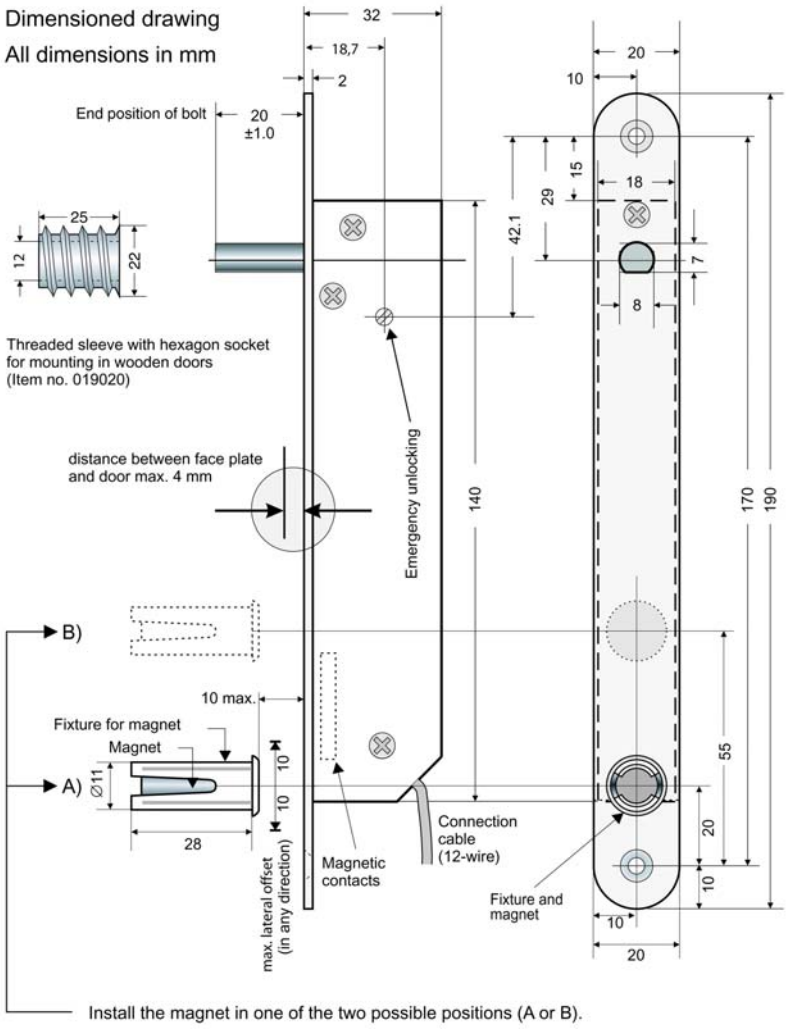
The basic functions of the motorised locking element 3 are the same as those of the lockin element 1 plus with magnetic contact (019033). Since it uses a steel bolt, it is moreover approved for use as access control final control element.

Performance Features

- Opening monitoring without additional magnetic contact
- Monitoring function to ensure that the lock can only be bolted with the door properly closed
- Automatic correction when mechanically obstructed
- Dynamic or static activation
- Electrical and/or mechanical emergency locking
- Increased mechanical strength - no break-off position at the locking bolt
- VdS approval as access control final control element

Technical Data

Operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at U_b=12 V DC	typ 6.0 mA
Mean current consumption	typ 0.2 (ca. 1 Sec)
Output current	carrying capacity (high active): max 50 mA
Installation position	any
Cable length	4 m
Fastener bolt	ø 8,0 mm
Bolt path	20 mm
Bolt shearing force (lateral)	3 kN
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +85 °C
Dimensions (W x H x D)	18 x 140 x 32 mm
Face plate	Standard dimension 20 x 2 x 190 mm



Dimensions (mm)

Accessories for locking elements 1 and 3

019030.10 Replacement locking bolt for locking element 1



2 pieces

019020 Threaded sleeve



Technical Data

Inner diameter	12 mm

5 pieces

019022 Counter unit with flange



Technical Data

Inner diameter	12 mm

5 pieces

019023 Counter unit with flange



Technical Data

Inner diameter	15 mm

5 pieces

019024 Surface mounting kit

For use with door leaf placed higher (10 mm).

Suitable silicone glue RTV 032265.

4 spacers, 1 mm thick, 2 cover plates (when mounted on glass).

019025 Surface mounting kit

Door leaf and frame flat.

Suitable silicone glue RTV 032265.

4 spacers, 1 mm thick, 2 cover plates (when mounted on glass).

019026 Angular face plate



Not suitable for locking elements with magnetic contact.

2 pieces

019035 Special face plate



Technical Data

Width	18 mm

Not suitable for locking elements with magnetic contact.

2 pieces

019036 Special face plate



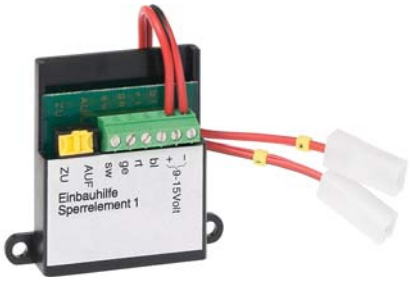
Technical Data

Width	24 mm

Not suitable for locking elements with magnetic contact.

2 pieces

019028 Mounting aid



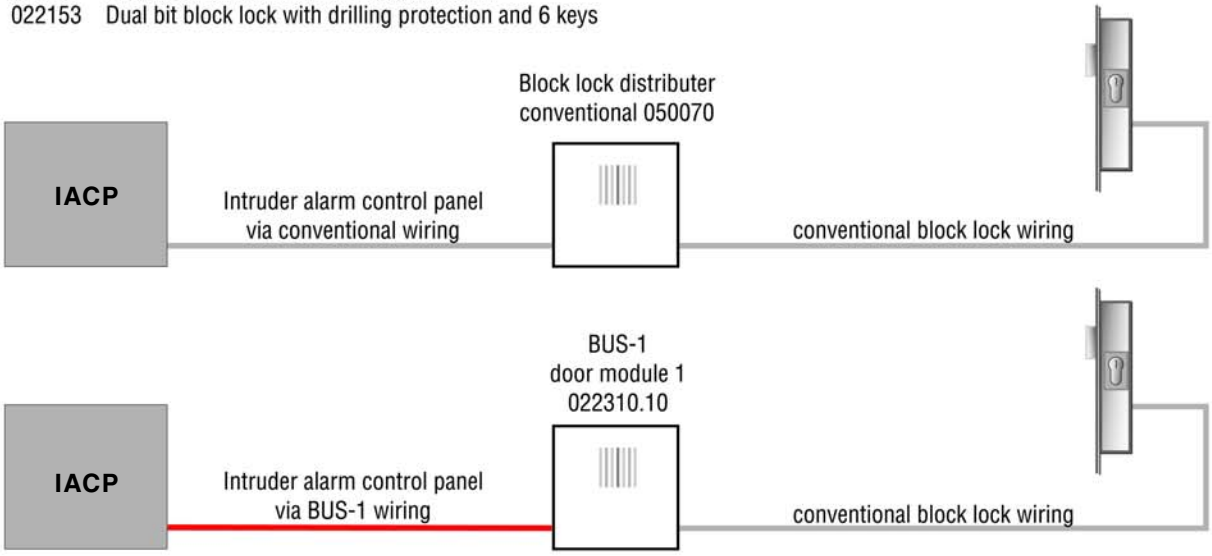
For functional control of the blocking element and aid for exact positioning of the bolt counter unit.

Overview block lock technique

Connection possibilities for 022220 see directly with item no. 022220.

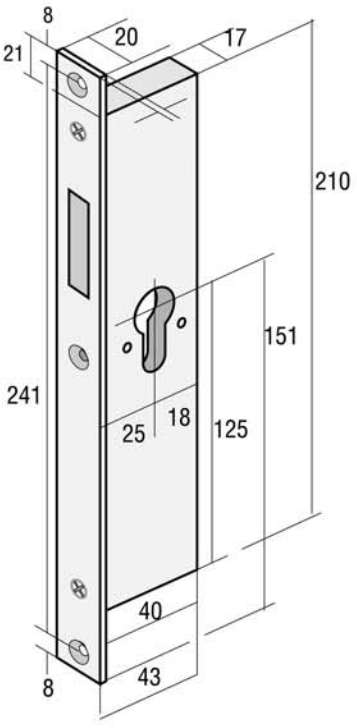
the overview shows the different combination possibilities of control panel, block lock and connection component.

021150 Dead bolt lock with monitoring function
022099 Profile block lock without drilling protection
022100 Profile block lock with drilling protection
022102 Profile block lock with electronic drilling monitoring
022151 Dual bit block lock with drilling protection
022153 Dual bit block lock with drilling protection and 6 keys

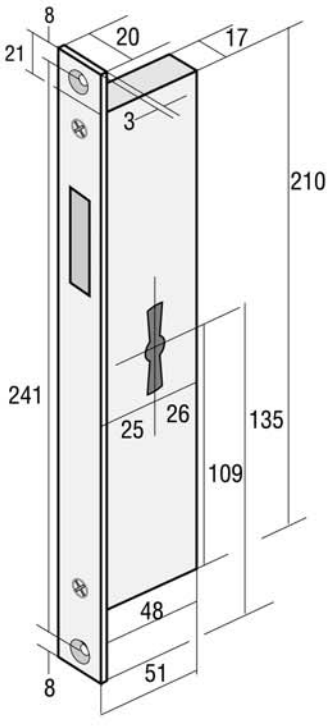


Dimensiion drawing
specifications in mm

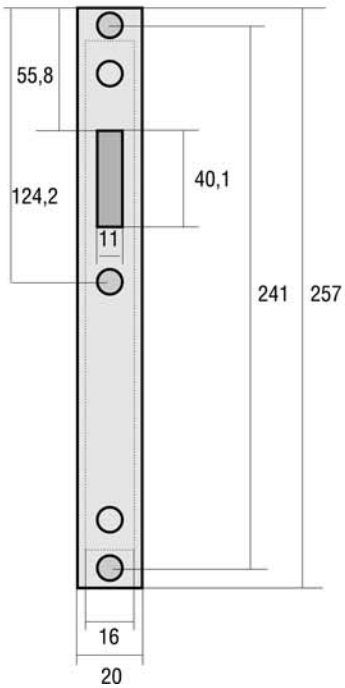
for item no.:
021150
022099
022100
022102
022220



for item no.:
022151
022153



for all item numbers



Dead bolt locks with monitoring function

021150 **Dead bolt lock for half cylinders**



VdS **Approval** **G189702 (IDT), class A**

The dead bolt lock with monitoring function consisting of the metal-encapsulated pocket with face plate and connecting cable includes all mechanical and electronic functional modules.

The dead bolt lock with monitoring function contains a monitoring device against drilling which can be linked to a tamper alarm group.

Slots for DIN half cylinders according to DIN standard 50018 or, in the case of VdS systems, according to guidelines form 2183.

Use of safety rosettes via integrated screw through holes in the housing.

Replacement possible with special face plate sizes 16 mm or 25 mm (standard 20 mm).

Variable bolt length by using bolt length extensions.

Technical Data

Switching current (R-load)	min. 10 mA, max. 100 mA
Electric life span	at 1 mA / 1.5 V DC: min. 1 Mio. switching cycles
Backset	25 mm
Installation position	any
Type of protection DIN 40 050	IP 30, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Weight	approx. 700 g, without cylinder

Accessories:

050070	Surface-mounted standard distributor, white
022310.10 /.17	Door module 1 for conventional block lock
022115	Chrome-coloured safety rosette for standard half cylinder
022117	Chrome-coloured spacers for 022115
022122	Chrome-coloured safety door sign 11 mm
022136	Chrome-coloured internal escutcheon for profiled cylinder
022112	Bolt length extension from 25 to 50 mm
022113	Bolt length extension from 25 to 65 mm
022121	Set for face plate special dimensions 16 and 25 mm
028028	VdS half cylinder Ikon 5532

IK2 block lock

022220 **IK2-block lock**



VdS **Approval** **G 196098 (IDT), class C**

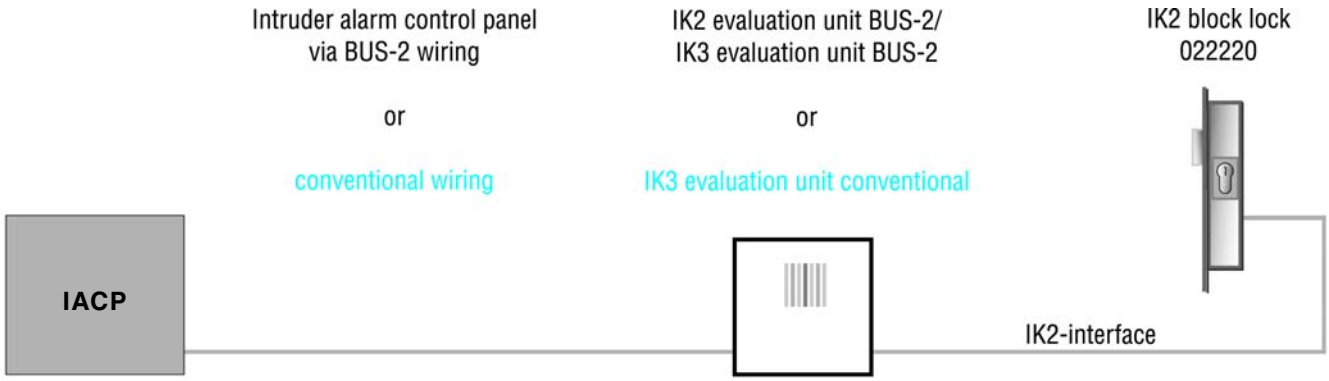
The IDENT-KEY block lock receives the code of the key cap used via the rosette (absolutely necessary, see next page).

Internal sensors continuously monitor the position of the keybit or the block lock bar. The information collected during monitoring is converted into serial data in the integrated electronic module and transferred to the evaluation unit.

The locking process is only possible when a release signal is active at the block lock.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	6 mA
Additional current consumption	120 mA (block coil)
Installation position	any
Environmental class as per VdS	III
Type of protection DIN 40 050	IP 30, locking cylinder correctly mounted
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Weight	approx. 700 g, block lock without cylinder but with 5 m connection cable
Material	Zn-die-casting
Dimensions housing (W x H x D)	16 x 210 x 40 mm
Face plate	20 x 257 x 3 mm
Bolt	11 x 40 mm
Dead bolt throw	15 mm
Locking plate	130 x 25 x 3 mm
Setting of locking	90° right or 90° left



Connection options

Accessories:

Accessories (absolutely necessary):

022167	IK2 rosette
022169	IK2 rosette
022180	Spacer for IK2 rosette
022182	Spacer for IK2 rosette
022185	Key cap with integrated transponder
022172	Gluing set

Optional accessories:

022112	Bolt length extension from 25 to 50 mm
022113	Bolt length extension from 25 to 65 mm
022114.01	Extension of special bolt length from 25 mm to 35 mm
022114.02	Extension of special bolt length from 25 mm to 55 mm
022114.03	Extension of special bolt length from 25 mm to 80 mm
022114.04	Extension of special bolt length from 25 mm to 100 mm
022121	Set for face plate special sizes 16 mm face plate and 25 mm face plate

022167 IK2 rosette



Rosette with combined transmission and reception antenna. A shielding plate on the back reduces the interferences from the ground. A flat cable with plug is used for connection to the block lock.

Technical Data

Colour	black, similar to RAL 9005

Phase-out date 31.12.2012.

022169 IK2 rosette



Rosette with combined transmission and reception antenna. A shielding plate on the back reduces the interferences from the ground. A flat cable with plug is used for connection to the block lock.

Technical Data

Colour	greywhite, similar to RAL 9002

Phase-out date 31.12.2012.

022180 Spacer for IK2 rosette



Technical Data

Thickness	2.5 mm
Colour	black, similar to RAL 9005

Several spacers can be used.

5 pieces

Phase-out date 31.12.2012.

022182 Spacer for IK2 rosette



Technical Data

Thickness	2.5 mm
Colour	greywhite, similar to RAL 9002

Several spacers can be used.

5 pieces

Phase-out date 31.12.2012.

Standard block locks

The conventional block lock system consists, as a functional unit, of the block lock and the distributor.

The evaluating module integrated in the block lock is connected to the distributor or from there to the control panel in conventional wiring technology.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	6 mA
Additional current consumption	120 mA (block coil)
Resistance of the block coil	100 Ohm
Operating mode	100 % continuous duty
Cable length	5 m
Installation position	any
Type of protection DIN 40 050	IP 30, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions housing (W x H x D)	16 x 210 x 48 mm (Double-bit block lock), Zn-die-casting
Dimensions housing (W x H x D)	16 x 210 x 48 mm (Double-bit block lock), Zn-die-casting
Face plate	20 x 257 x 3 mm, steel galvanized
Bolt	11 x 40 mm, steel galvaniced, dead bolt throw 15 mm
Backset	25 mm
Locking plate	130 x 25 x 3 mm, steel galvanized
Setting of locking	90° right or 90° left

Accessories:

022115	Chrome-coloured safety rosette
022117	Chrome-coloured spacers for 022115
022115.01	Gold-plated safety rosette
022120	Chrome-coloured core drawback protection rosette 12 mm
022124.99	Chrome-coloured core drawback protection rosette 15 mm
022134	Gold-plated core drawback protection rosette 12 mm
022122	Chrome-coloured safety door sign 11 mm
022123	Chrome-coloured safety door sign 14 mm
022136	Chrome-coloured internal escutcheon for profiled cylinder
022112	Bolt length extension from 25 to 50 mm
022113	Bolt length extension from 25 to 65 mm
022114.01	Extension of special bolt length from 25 mm to 35 mm
022114.02	Extension of special bolt length from 25 mm to 55 mm
022114.03	Extension of special bolt length from 25 mm to 80 mm
022114.04	Extension of special bolt length from 25 mm to 100 mm
022121	Set for face plate special dimensions
050070	Surface-mounted standard block lock distributor/white
022310.10 /.17	BUS-1 door module 1 for standard block lock, white, surface-mounted design

022099 Standard block lock



VdS **Approval G198718 (IDT), class A**

Block lock without mechanical surface protection against drilling, consisting of the metal-encapsulated pocket with face plate and connecting cable, includes all mechanical and electronic functional modules.

The integrated evaluating module as completely encapsulated electronic unit with current-saving microelectronics in surface-mounted technology and customer-specific IC serves for the central management of all control functions.

Includes individual programming of the monitoring criteria and operating modes, for example as main block lock or door lock.

Slots for DIN half cylinders according to DIN standard 50018 or, in the case of VdS systems, according to guidelines form 2183.

022100 Standard block lock including mechanical protection against drilling



VdS **Approval G189510 (IDT), class B; VSÖ G 031210/33 E**

The description and technical data are identical to those of the article 022099, except that tamper monitoring is included in the form of a mechanical all-around protection against drilling.

022102 Standard block lock including electronic protection against drilling



VdS **Approval G194043 (IDT), class C; VSÖ W 070427/58 E**

The description and technical data are identical to those of the article 022100, except that additionally an elektronic protection against drilling is included.

022102.62 Standard block lock including electronic protection against drilling



VdS **Approval G194044 (IDT), class C**

For use in intrusion detection control panel 5008.

The description and technical data are identical to those of the former item no. 160629.

Block lock distributor 050070 to fit.

Block lock distributor

050070 Standard block lock distributor



VdS **Approval** **G190092 (IDT), class C; VSÖ W 070427/63 E**

Surface-mounted design, compact block lock distributor including 6 mm cable link, integrated pcb with 18-pin connection and built-in buzzer with increased sound volume, for acoustic arming acknowledgement. Built-in cover contact.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption buzzer	20 mA
Type of wiring	conventional
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (H x W x D)	118 x 118 x 30 mm (plastic)
Material	Plastic
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050070.17 Standard block lock distributor

NEW



VdS **Approval** **G190092 (IDT), class C; VSÖ W 070427/63 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Block lock accessories

022060 Block lock surface mounting kit



Consisting of a block lock and striking plate receptacle of 40 mm thick massive iron for surface mounting to be welded to safe and metal doors, it fits block locks with half cylinders, including special face plate.

Technical Data

Block lock connector	25 mm
Dimensions (W x H x D)	260 x 60 x 40 mm (part size)

022121 Set for face plate special dimensions



16 mm: To be used, for example, behind a door leaf locking rod.

25 mm: To be used, if, for example, a block lock type of the previous generation is to be replaced with a new block lock.

Bolt length extensions

Mounting kit for extending the block lock bolt length. Consists of a suitable bolt extension, 2 micro-encapsulated one-way screws, 3 face plate spacing pieces and the associated one-way screws. Suitable for block lock types and the VdS dead bolt lock with monitoring function.

022112 **Bolt length extension from 25 to 50 mm**

022113 **Bolt length extension from 25 to 65 mm**

022114.01 **Extension of special bolt length from 25 mm to 35 mm**

022114.02 **Extension of special bolt length from 25 mm to 55 mm**



022114.03 **Extension of special bolt length from 25 mm to 80 mm**



022114.04 **Extension of special bolt length from 25 mm to 100 mm**



Core drawback protection rosettes

022115 Safety rosette for half cylinder



Chrome-coloured, including M5 threaded bars.

022117 Spacer



Chrome-coloured, for 022115, 1.5 mm thick.

3 pieces

022138 Internal rosette with profiled cylinder perforation



Chrome-coloured, including M5 threaded bars.

5 mm thick.

022120 Core drawback protection rosette, chrome-coloured



Safety rosette including core drawback protection for half cylinder. Including 12 mm thick external escutcheon for cylinder projection of 9 - 14 mm.

Technical Data

Dimensions outer label (W x H x D)	44 x 70 x 12/15 mm
Dimensions inner label (W x H x D)	44 x 70 x 5 mm

Performance Features

- According to VdS class A

Safety door plate

Performance Features

• According to VdS classes A/B/C

The safety door plate fitted with a protective steel cover and core protection (revolving disk) offers optimum protection for the half cylinder inserted into the block lock.

The rosette attachment provided with a core protection on the inside is mounted on the projecting cylinder portion and fastened using 2 threaded bolts and clamping bolts each.

The rosette attachment including the core protection is secured by the all-around ground and hardened external escutcheon in connection with the internal escutcheon by means of M8 special screws to be screwed down from the inside, thus providing optimised security.

Technical Data

Dimensions outer label (W x H x D)	44 x 260 x 11 or 14 mm
Dimensions inner label (W x H x D)	36 x 260 x 6 mm

All parts made of corrosion-resistant stainless steel.

External and internal escutcheon core protection insert (revolving disk); 2 special screws M8 x 50.

022122 Chrome-coloured safety door plate



Including 11 mm thick external escutcheon for cylinder projection of 9 - 14 mm.

022123 Chrome-coloured safety door plate



Including 14 mm thick external escutcheon for cylinder projection of 12 -17 mm.

022136 Chrome-coloured internal escutcheon including profiled cylinder perforation



For upgrading the safety door plate. It allows profiled cylinders (full cylinders) to be mounted.

Does not meet the VdS guidelines.

VdS

When used in block locks, dead bolt locks with monitoring function or operating units, VdS requests core drawback and cylinder protection. For the possible combinations of cylinder / high-security escutcheon / switching device, please refer to the VdS publication applicable in each case.

028028 VdS half cylinder, Ikon 5532



VdS **Approval** **M191341**

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	35.5 mm

Covers all VdS classes in connection with safety door plates 022122.
For use in block locks, for example 022102..

3 keys with safety certificate.

028029 VdS half cylinder, Ikon 5532, including core drawback protection



VdS **Approval** **M191342**

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	35.5 mm

Covers all VdS classes in connection with safety rosettes 022115, 022115.10.
For use in block locks, for example 022102.

3 keys with safety certificate.

028034 VdS half cylinder



VdS **Approval** **M191341**

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	40.5 mm

For use in safety control panels/IDENT-KEY operating units, for example 012520, 022183.

3 keys with safety certificate.

028033 VdS half cylinder, Winkhaus TI602



VdS **Approval** **M104369**

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	32.5 mm

Covers all VdS classes in connection with safety door plates 022122, 022122.01, 022123, 022123.01.
For use with security operating units 012525, 012526, 010125 and key switches SS 90, e. g. 154428, 154443.

3 keys with safety certificate.

Standard

028031 Half cylinder



Simple half cylinder without VdS approval.

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	40.5 mm

For use in lockable keypad units, for example 025105.

3 keys.

028032 Half cylinder



Simple half cylinder without VdS approval.

Technical Data

Key	Bit position: in 45° grid turnable by 360°
Length A	30.5 mm

For use in contact locks of modular operating unit program, for example 12624; block switch, for example 021130, 021131; control panels 50-M5; 100-A5; 100-A8; 561-H8 and emergency key box, for example 048850.

3 keys.

Housing lock

028050 VdS lock insert



According to VdS for commercial use, for example for retrofitting housings.

The VdS lock insert is delivered with the Schulte 1k101 locking mechanism.
For alarm control panel, no single locking mechanism may be used.

2 keys.

Key switch SS 90

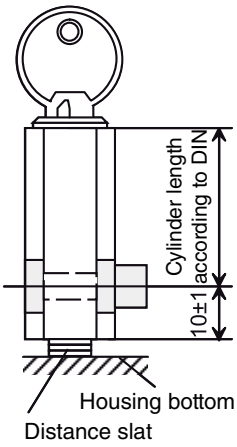
VdS Approval **VdS approval G 193724, VdS class A**

The key switch SS 90 consists of a zinc die-cast housing painted white (similar to RAL 9016), electric tear-off and cover monitoring, core drawback protector for half cylinder integrated in the housing cover, optic control lights for alarm and armed/disarmed and a buzzer as acoustic acknowledgement display, either as permanent or momentary contact version, as desired.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8 V to 18 V DC
Current consumption	Buzzer approx. 5 mA, per LED approx. 20 mA
Display	1 red LED, 1 yellow LED
Signalling device	Buzzer 60 dB (A) 1 m
Switching contact	30 V DC, 500 mA, S1 / S4 (arming/disarming)
Tamper switch	30 V DC, 500 mA, S2 / S3
Class of protection DIN 40050	IP 54
Environmental class as per VdS	III
Operating temperature range	-25 °C to +70 °C
Storage temperature range	-30 °C to +75 °C
Housing material	Zn-die-casting
Weight	approx. 1250 g
Dimensions housing (W x H x D)	88 x 142 x 54 mm, s.m.
Dimensions cover frame (WxHxD)	124 x 182 x 54 mm, f.m.
Dimensions flush-mount housing (WxHxD)	105 x 155 x 45 mm, f.m.
Colour	white, similar to RAL 9001

When used in block locks, dead bolt locks with monitoring function or operating units, VdS requests core drawback and cylinder protection. For the possible combinations of cylinder / high-security escutcheon / switching device, please refer to the VdS publication applicable in each case.



Cylinder length	Distance slat	
mm	white 1 mm	coloured 0,5 mm
28,5 - 29,0	3	1
29,1 - 29,5	3	–
29,6 - 30,0	2	1
30,1 - 30,5	2	–
30,6 - 31,0	1	1
31,1 - 31,5	1	–
31,6 - 32,0	–	1
32,1 - 32,5	–	–

Accessories:

028033 Half cylinder

154428 **Key switch SS 90**



VdS **Approval** **G193724 (IDT), class A**

VdS approval in connection with protection against drilling 154437 only.

Without half cylinder.

154430 **Key switch SS 90**



VdS **Approval** **G193724 (IDT), class A**

Equipped with additional second switching contact.

VdS approval in connection with protection against drilling 154437 only.

Without half cylinder.

Accessories

154437 **Protection against drilling**



For upgrading the key-operated switch SS 90 to comply with VdS.

790725 **Safety screws**



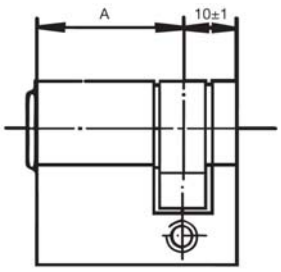
10 pieces

797027 **Special Allen key**



With drilled hole, fits to safty screws 790725.

Block switch



For use in the standard and VdS control panel product line. Soldering tags for monitoring resistors available. Designed with tamper switch and 5-sided comprehensive protection against drilling, LED displays for armed/disarmed state and alarm fault.

Changeover/permanent contact keybit position for half cylinder to be used 90° right.

Technical Data

Rated operating voltage	12 V DC, block coil
Operating voltage range	10 V to 15 V DC
Current consumption in no-load	0 mA
Current consumption (max. current, switching mode)	270 mA (arming/disarming)
Class of protection DIN 40050	IP 44
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +70 °C
Dimensions (H x W x D)	70 x 122 x 55 mm
Colour	greywhite, similar to RAL 9002

The length A of the locking cylinder (see diagram) must be 30 mm.
Delivery without half cylinder.

Accessories:

028032 Half cylinder

021130 Surface-mounted block switch with mechanical lock disabling



021131 Flush-mounted block switch with mechanical lock disabling



012525 Surface-mounted outdoor safety operating unit including logic



VdS **Approval G100708 (IDT), class A; VSÖ P 070427/14 E**

The outdoor safety operating unit consists of a stable die-cast housing. The housing top is provided with an electro-mechanical monitoring against drilling. This prevents any unauthorised access to the integrated electronics. Also available are a mechanical tear-off protection and a cover monitoring device.

The “ON-OFF” key position is scanned by microsensors. The switching contacts are galvanically separated from the lines to the control panel by optic relays.

The built-in buzzer and the two-colour LED (red / green) are activated by the connected intrusion detection control panel via suitable acknowledgment signals (logic).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current at UN	2.5 mA
Maximum current consumption	22 mA (when arming/disarming)
Type of protection DIN 40 050	IP 44, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +80 °C
Dimensions (W x H x D)	85 x 123 x 56 mm
Colour	greywhite, similar to RAL 9002

The operating unit 012525 is designed for half cylinders with keybit position 90° right.
The length A should be 31 mm to 32.5 mm.
We recommend using half cylinder 028033.

012526 Surface-mounted outdoor security operating unit excluding logic



VdS **Approval G100708 (IDT), class A; VSÖ P 070427/14 E**

The outdoor safety operating unit consists of a stable die-cast housing. The housing top is provided with an electro-mechanical monitoring against drilling. This prevents any unauthorised access to the housing. Also available are a mechanical tear-off protection and a cover monitoring device.

The operating does not need a separate operating voltage. This makes is especially suitable for applications in which no permanent operating voltage is available or for battery-operated devices which should not be subjected to a load in the form of a permanent current consumption.

The “ON-OFF” key position is scanned by microsensors.

The built-in buzzer and the red LED are activated by the connected intrusion detection control panel.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	22 mA, when arming/disarming
Type of protection DIN 40 050	IP 44, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Storage temperature range	-40 °C to +80 °C
Dimensions (W x H x D)	85 x 123 x 56 mm
Colour	greywhite, similar to RAL 9002

The operating unit 012526 is designed for half cylinders with keybit position 90° right.
The length A should be 31 mm to 32.5 mm.
We recommend using half cylinder 028033.

Accessories:

028033 Half cylinder

012520 Flush-mounted outdoor safety operating unit excluding logic



VdS **Approval** **G196706 (IDT), class A; VSÖ.E:P070427/15E**

The outdoor operating unit consists of a stable cast housing and a front plate with electro-mechanical monitoring against drilling.

The electromechanical monitoring against drilling prevents any unauthorised access to the integrated electronics. Also available are a mechanical tear-off protection and an electronic cover monitoring device.

The special construction (a special flush-mounted box and a flush-mounted housing) of the outdoor operating unit allows flush mounting in massive and also in hollow walls.

The “ON-OFF” key position is scanned by contactless sensors. In addition, the idle position of the lock catch (centre position) is tamper monitored. The built-in buzzer and the two-colour LED are activated by the connected intrusion detection control panel.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	17 mA
Current consumption (max. current, switching mode)	40 mA
Connecting cable length	6 m
Type of protection DIN 40 050	IP 44, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-40 °C to +80 °C
Dimensions	installation depth: 70 mm
Dimensions (W x H x D)	front: 86 x 107 x 27 mm
Dimensions (ØxD)	housing: 70 x 70 mm

Owing to the different constructional characteristics of locking cylinders from different manufacturers, the correct locking cylinder must be selected. The length A should be 40.5 mm. We recommend using half cylinder 028034.

010125 BUS-1 key switch operating unit



VdS **Approval** **G102043 (IDT), class C; VSÖ W 070427/11 E**

The BUS-1 safety operating unit is housed in a stable die-cast housing.

It is suitable for indoor use and has been designed specifically for **indoor** arming/disarming of intrusion detection systems in BUS-1 technology.

The “ON-OFF” key position is scanned by microsensors.

The built-in buzzer and the LED (red) are activated by the connected intrusion detection control panel via suitable acknowledgment signals via BUS-1.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Quiescent current at UN	2.8 mA
Maximum current carrying	6 mA (when arming/ disarming)
Type of protection DIN 40 050	IP 44, locking cylinder correctly mounted
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 123 x 56 mm
Colour	greywhite, similar to RAL 9002

The operating unit 010125 is designed for half cylinders with keybit position 90° right. The length A should be 31 mm to 32.5 mm. We recommend using half cylinder 028033.

Accessories:

028033 Half cylinder

Accessories

012521 **Decorative film for outdoor safety operating unit 012520**



5 pieces

012529 **Decorative film for operating units 012525, 012526 and 010125**



5 pieces



Readers
ID Carriers
Door code system

Readers overview

Overview of Proximity Readers

Standard Data					RFID Technology						Interface			Periphery	
Type	Housing	Colour	Item.no.	VdS	proX1;IK2	proX2;IK3	mifare	mifare DESFire EV1	LEGIC	LEGIC adv.	CL/D	RS485	IK2	connectable at	Device
Accentic without keypad		white alum. optional white or anthracite	026420		✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	ACT
			026422	✓			✓				✓	✓			
			026424						✓	✓	✓	✓			
			026435				✓	✓				✓		5, 6, 9	
			023322.99	✓	✓	✓						✓		6, 7, 9	
Accentic with keypad		white alum. optional white or anthracite	026421		✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	1
			026423	✓			✓				✓	✓			
			026425						✓	✓	✓	✓			
			026436				✓	✓				✓		5, 6, 9	
			023320	✓	✓	✓						✓		6, 7, 9	
Fingerkey reader Accentic		basaltgrey	029340	✓	✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	ACS-2plus
Classic (small housing)		greywhite	026480		✓						✓			1, 2, 3, 4, 5	2
			026480.10		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	
			026494				✓				✓	✓			
			026492						✓		✓	✓			
Classic with on/off keys (small housing)		greywhite	022194	✓	✓								✓	6, 7, 8	ACS-8
Classic without keypad		greywhite	026380.00		✓									RS-232	3
			026390.00		✓						✓			1, 2, 3, 4, 5	
			026390.10		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	
Classic with keypad		greywhite	026383.00		✓						✓			1, 2, 3, 4, 5	
			026481		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	
			026493				✓				✓	✓			
			026491						✓		✓	✓			
			022195.10	✓	✓								✓	6, 7, 8	Door Modul RS485
Classic extended range		greywhite	026366.10		✓						✓	✓		1, 2, 3, 4, 5, 6, 7, 9	4
Comfort Key IK2		greywhite	022198	✓	✓								✓	6, 7, 8	
IK2-Operating Unit fm version		greywhite	022183	✓	✓								✓	6, 7, 8	ACS-8
Insertic without keypad		light grey	027666		✓	nur UID					✓			2, 3, 4, 5	ACS-8 Com.modul
			027668		✓	nur UID						✓		5, 6, 7, 9	
			027670				✓				✓			2, 3, 4, 5	5
			027672				✓					✓		5, 6, 7, 9	
			027674						✓		✓			2, 3, 4, 5	
			027674.10						✓	✓	✓			2, 3, 4, 5	
			027676						✓			✓		5, 6, 7, 9	
			027676.10						✓	✓		✓		5, 6, 7, 9	IK3 DC BUS-
Insertic with keypad		light grey	027667		✓	nur UID					✓			2, 3, 4, 5	
			027669		✓	nur UID						✓		5, 6, 7, 9	6
			027671				✓				✓			2, 3, 4, 5	
			027673				✓					✓		5, 6, 7, 9	
			027675						✓		✓			2, 3, 4, 5	
			027675.10						✓	✓	✓			2, 3, 4, 5	
			027677						✓			✓		5, 6, 7, 9	
			027677.10						✓	✓		✓		5, 6, 9	IK3 DC conv.
Insertic 50		light grey	027660		✓	nur UID					✓			2, 3, 4, 5	
			027661		✓	nur UID						✓		5, 6, 7, 9	7
			027662				✓				✓			2, 3, 4, 5	
			027663				✓					✓		5, 6, 7, 9	
			027664						✓		✓			2, 3, 4, 5	
			027664.10						✓	✓	✓			2, 3, 4, 5	
			027665						✓			✓		5, 6, 7, 9	
			027665.10						✓	✓		✓		5, 6, 7, 9	IK2 DC BUS-
Siedle Vario without keypad		white	023330	✓	✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	8
		other colours see catalogue p.196													
Siedle Vario with keypad		white	023340	✓	✓	✓					✓	✓		1, 2, 3, 4, 5, 6, 7, 9	Door Controller Module for MB BUS-2
		other colours see catalogue p.197													
Reader with scramble keypad plastic housing		red	026445		✓		o.req.		o.req.			✓		5, 6, 7, 9 (for access only)	9
Reader with scramble keypad stainless steel hous.		stainless steel	026445.10		✓		o.req.		o.req.			✓		5, 6, 7, 9 (for access only)	

Please note the corresponding information within our catalogue. This table doesn`t show all properties, functionalities and technical dates in details.

IK3 readers

Note: Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

023322.99 IK3 reader without keypad, contactless, white aluminium



VdS **Approval** **G104029 (IDT), class C; Z105006 (AC), class C; VSÖ W 070427/26 E**

IK3 reader in “Accentic” design.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Interface	RS-485
Interface range RS-485	up to 1200 m
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	5-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Maximum safety through alternating code method as per VdS 2119
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

023320 IK3 reader with keypad, white aluminium



VdS **Approval** **G104030 (IDT), class C; Z105007 (AC), class C; VSÖ W 070427/27 E**

IK3 reader in “Accentic” design.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485
Interface range RS-485	up to 1200 m
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	5-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Maximum safety through alternating code method as per VdS 2119
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

proX2 reader

Note: Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

026420.10 proX2 reader “Accentic” without keypad



RS-485- and Clock/data interface.
proX2 reader in elegant ergonomic housing design.
Reads proX1/ IK2- and proX2/ IK3 data carriers (IK3 without alternating code).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	proX2 / IK3 (EM4102 and EM4150 Transponder, without alternating code)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

026421.10 proX2 reader “Accentic” with keypad



RS- 485- and Clock/data interface.
proX2 reader in elegant ergonomic housing design.
Reads proX1/ IK2- and proX2/ IK3 data carriers (IK3 without alternating code).

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption stand-by mode	< 11 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	proX2 / IK3 (EM4102 and EM4150 Transponder, without alternating code)
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Reads proX1/ IK2- and proX2/ IK3 cards
- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Range adjustment
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

mifare reader

026422 mifare reader “Accentic” without keypad



VdS **Approval** **G107016 (IDT), class C; Z107003 (AC), class C**

RS-485- and clock/data interface.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 30 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	mifare according to ISO 14443 A
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

026423 mifare reader “Accentic” with keypad



VdS **Approval** **G107017 (IDT), class C; Z107004 (AC), class C**

RS-485- and clock/data interface.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 30 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	mifare according to ISO 14443 A
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Performance Features

- Ergonomic keypad design
- Labelling with symbols (language neutral)
- Time-limited background lighting of the keypad
- RS-485 interface, range up to 1,200 m
- Automatic address allocation on RS-485 bus
- Insensitive to soiling
- Can be mounted directly on standard flush-mounted boxes
- Largely vandalism-proof
- Low current consumption
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

mifare DESFire EV1 reader

Performance Features

- Transponder technology according to BSI for highest security requests (128 Bit AES encryption on the air distance between transponder and reader)
- Encrypted transmission of the UID (feature „Random UID“)
- Possibility to run the reader with 2 keys at the same time, which enables a switch to a new encryption key without any interruption .
- Key change per Self-Service station (IQ KeyChanger, part of IQMA), without any further operation.
- On the used mifare DESFire EV1 cards the complete data area is available which enables the user to store user-related data.
- Compatible to ACS-8
- Compatible to MB24 / 48 / 100 / IK3 / Door controller module for MB
- Clear and logical operating concept
- Simple to configure
- Simple RS-485 addressing, manually or automatically
- Reader is protected against moisture (IP 65)
- Inside and outside operation with temperatures from -25 °C to +55 °C
- Simple wall mounting with two or three screws
- The reader can also be mounted directly on standard DIN flush-mounted boxes
- The faceplate of the housing is subsequently exchangeable (different colours)

Characteristics of the proximity reader:

- A new evaluation method guarantees absolutely firm transmissions
- AES encryption
- Synchronization possible of up to 4 readers mounted close side by side
- Low current consumption

LED indication:

- In normal operation the 3 LEDs of the reader (green, yellow, red/green) are controlled by the EU/panel. Their functions are configured in dependance of the used EU/panel or can be defined via the programming

Interfaces:

- RS-485 bidirectional interface with module bus protocol, suited for ACS-8 and IK3
- Interface range up to 1200 m

VdS Approval **Class C for IDT and AC**

The mifare DESFire EV1 reader „Accentic“ is used as contactless reading device and operating unit with access control and intrusion detection systems.

The reader with keypad allows a combination of PIN and card. Depending on the used EU or panel the keypad can be used to trigger control functions/macros.

DESFire EV1 readers provide an enormous raise of security by the AES (Advanced Encryption Standard) encryption procedure. This procedure is classified as extremly tap-proof and tamper-resistant and is approved for governmental documents with highest grade of confidentiality in the USA.

The setup of mifare DESFire readers is done viq IQ SystemControl or IQ MultiAccess. WINFEM does not support this function.

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 30 mA (on average)
Time-limited write/read mode	< 50 mA (incl. status indication)
Luminous background	< 4 mA (readers with keypad, time-limited for 5 sec. max. 8 mA)
Interface	RS-485
Interface range RS-485	up to 1200 m
Reading technology	mifare DESFire EV1
Reading distance	1.5 cm (only ID cards)
Connecting cable	5-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Note: Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

Accessories:

023314	White aluminium housing cover for reader with keypad
023315	purewhite housing cover for reader with keypad
023316.99	Anthracite housing cover for reader with keypad
023317	purewhite housing cover for reader without keypad
023318	Anthracite housing cover for reader without keypad
023319	White aluminium housing cover for reader without keypad
023324	Housing bottom with cover contact
023329	Mounting plate
023501	Decorative screening / weather protection
026362	mifare DESFire EV1 card, 4k
026487	USB Desktop-Reader Mifare Classic & DESFire EV1

026435 mifare DESFire EV1 reader “Accentic” without keypad



VdS **Approval** **G111004 (IDT), class C; Z111001 (AC), class C**

026436 mifare DESFire EV1 reader “Accentic” with keypad



VdS **Approval** **G111005 (IDT), class C; Z111002 (AC), class C**

Special keypad features:

- Neutral labelling of LEDs and keypad.
- Abrasion-resistant 10 key keypad with 6 additional functional keys.
- Tactile and acoustical acknowledgement.
- Night design with time-limited luminous background.

LEGIC advant reader

Please contact our techical hotline if the use of own datacarriers (ID-cards, key fobs, etc.) is intended.

026424 LEGIC advant reader "Accentic" without keypad



Approval G110043 (IDT), class C; Z110001 (AC), class C

RS-485 and clock/data interface.

The LEGIC advant product line was developed in order to ideally support the setup of access control and other person-based service applications. It guarantees maximum security, scalability and cost-efficient investment safety.

Its highly advanced security features (DES / 3DES) and compatibility with ISO standards (15693, 14443) and the LEGIC RF standard makes this product line also particularly suitable for smart card projects such as mono- and multifunctional company badges and leisure cards.

Typical fields of application include state ID projects, general access control solutions, switching of alarm systems and high-security applications such as IT access protection and biometrics.

Performance Features

- Compatible with multi-industry standard (13.56 MHz Read)
- Simultaneous multi-RF standard operation
- Advanced high-security, DES / 3DES encryption
- Physical Master-Token System Control and Automatic Key Management
- Easy-to-implement multi-applications
- Compatible with ISO standards 15693 and 14443 A
- Meets U.S. Government standards FIPS 201 / PACS V2.2 Transition State Specification
- Downward compatible with LEGIC prime transponders
- Clear and logic operating concept
- Simple commissioning
- Simple RS-485 address allocation, manually or automatically
- A special evaluation method guarantees extremely stable transmissions
- The reader is completely protected from moisture (IP 65)
- Indoor and outdoor use at temperatures ranging from -25 °C to +55 °C
- Simple mounting using two or three screws at the wall
- The reader can also be mounted directly on commercially available DIN flush-mounted boxes
- The housing face plate can be replaced at a later stage (various colours, see accessories)

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9.5 V to 30 V DC
Current consumption stand-by mode	< 45 mA (on average)
Time-limited write/read mode	< 200 mA (incl. status indication)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	LEGIC advant
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023317	Face plate without keypad, purewhite
023318	Face plate without keypad, anthracite
023319	Face plate without keypad, white aluminium

026425 LEGIC advant reader “Accentic” with keypad



VdS **Approval** **G110044 (IDT), class C; Z110002 (AC), class C**

RS-485- and clock/data interface.

The LEGIC advant product line was developed in order to ideally support the setup of access control and other person-based service applications. It guarantees maximum security, scalability and cost-efficient investment safety.

Its highly advanced security features (DES / 3DES) and compatibility with ISO standards (15693, 14443) and the LEGIC RF standard makes this product line also particularly suitable for smart card projects such as mono- and multifunctional company badges and leisure cards.

Typical fields of application include state ID projects, general access control solutions, switching of alarm systems and high-security applications such as IT access protection and biometrics.

Performance Features

Same performance features as article 026424, but with integrated, background-lit “Accentic” keypad.

- Country-independent labelling of the LEDs and the keypad
- Abrasion-resistant 10-key comfort keypad including 6 additional function keys
- Tactile and acoustic feedback
- Night design with time-limited background lighting

Technical Data

Rated operating voltage	12 V to 24 V DC
Operating voltage range	9.5 V to 30 V DC
Current consumption stand-by mode	< 45 mA (on average)
Time-limited write/read mode	< 200 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	LEGIC advant
Reading distance	up to 8 cm; depending on transponder type and mounting site / environment of the reader
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 142 x 32 mm
Colour	white aluminium, similar to RAL 9006

Accessories:

023501	Plastic shield (view/weather)
023329	Mounting plate, 3 per packaging unit
023315	Face plate with keypad, purewhite
023316.99	Face plate with keypad, anthracite
023314	Face plate with keypad, white aluminium

Accessories for IK3- and Accentic readers

023315 Face plate IK3 and “Accentic” readers with keypad, purewhite



Replaceable face plate for IK3 or “Accentic” readers

Technical Data

Colour	purewhite, similar to RAL 9010

3 pieces

023316.99 Face plate for IK3 and “Accentic” readers with keypad, anthracite



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	anthracite (satin grey metallic)

3 pieces

023314 Face plate for IK3 and “Accentic” readers with keypad, white aluminium



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	white aluminium, similar to RAL 9006

3 pieces

023317 Face plate for IK3 and “Accentic” readers, purewhite



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	purewhite, similar to RAL 9010

3 pieces

023318 Face plate for IK3 and “Accentic” readers, anthracite



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	anthracite (satin grey metallic)

3 pieces

023319 Face plate for IK3 and “Accentic” readers, white aluminium



Replaceable face plate for IK3 or “Accentic” readers.

Technical Data

Colour	white aluminium, similar to RAL 9006

3 pieces

023501 Plastic housing (weather/view)



The housing is in tune with the modern line of the “Accentic” readers.

Technical Data

Dimensions (W x H x D)	82 x 147 x 42-60 mm
Colour	greywhite, similar to RAL 9002

023329 Mounting plate for “Accentic” readers



Mounting the mounting plates between the mounting wall and the operating unit produces an opening which allows a surface-mounted cable installation. Since 3 mounting plates per packaging unit are delivered, they can be used as a function of the condition of the ground.

Technical Data

Dimensions (W x H x D)	69 x 137 x 3 mm
Colour	greywhite, similar to RAL 9002

3 pieces

023324 Housing bottom with cover contact for Accentic readers



Replacement housing bottom for IK3 readers “Accentic” with integrated cover contact for an IK3 system design according to BSI.

Biometrics

029340 **"Accentic" IK3 finger key reader**



Performance Features

- Biometric reader combined with IK3 reader keypad
- Arming/disarming and access control by finger only, data carrier only, PIN only or finger+PIN **or** data carrier+PIN
- IK3 technology provides support to IK3 alternating code according to VdS 2119, for use with all IK2/proX or IK3/proX2 data carriers
- Biometric identification of up to 99 persons using 3 fingers each
- We recommend the following:
- A maximum of 25 persons, if only biometric identification is used.
- 99 persons use a combination between fingerprint recognition and a PIN.
- More than 99 persons:
  Authorization is possible via "data carriers only", "PIN only" or "data carrier + PIN". Us as a normal IK3 reader with keypad.
- Encrypted memorisation of the templates
- Simple commissioning through teach-in mode at the intrusion detection system or learn card set at the access control system
- When fingers are injured or unsuitable, it is always possible to use the personal data carrier instead, even when the system is running
- High security level when operated on intrusion detection systems:
  - For use as switching device up to SG6
  - Increased arming/disarming security through fingerprint identification Approx. 1/3 more features are evaluated than in AC and control functions
- Insensitive to varying light situations, moisture, soiling, electric fields and "latent fingers" (visible fingerprint left after use)
- Indoor and outdoor use at temperatures ranging from -25 °C to +55 °C, type of protection IP 54, Plastic housing (weather/view) available as accessory
- Simple mounting using two or three screws at the wall
- The reader can also be mounted directly on commercially available DIN flush-mounted boxes
- Easy exchange/addition to existing systems
- Country-independent labelling of the LEDs and the keypad.
- Abrasion-resistant 10-key comfort keypad including 6 additional function keys.
- Tactile and acoustic feedback.
- Night design with time-limited background lighting

VdS **Approval** **G108091 (IDT), class C; Z108002 (AC), class C**

RS-485 and clock/data interface.

The finger key reader is a biometric system that uses the personal fingerprint as identification feature for granting authorisations.

In a special learn mode, 3 fingerprints per person are taken in quick succession and linked to the serial number of a personal data carrier. The fingerprint data are stored in the reader, while the authorisation of the associated data carrier is done in the system.

Instead of the serial number of a really existing data carrier, it is also possible to create a "virtual" serial number as personal identification. In this case, no personal data carrier is required for teach-in.

If the reader is able to identify a currently read-in fingerprint, it will send the serial number of the associated data carrier to the controller. A release is only given if the data carrier (or the "virtual" serial number) in the system has the required authorisation. By virtue of the dynamic switchover of the security threshold, the armed/disarmed requirements for the detected biometric features are higher than in a pure access control operation.

The grade of recognition of authorized or non-authorized persons depends on the number of stored finger prints. With increasing number the security of recogition decreases unavoidably. This is a system-dependent property.

Due to this we recommend:

- max. 15 persons with 3 stored fingers each

- max. 25 persons with 2 stored fingers each

Number of persons with biometric identification + code input (door code or PIN):

- up to 99 persons with 3 stored fingers each

Release is only given if code and finger data can be allocated to the same person. From the 100st person on the use of fingers is no longer possible. In this case a release ist possible via data carrier and/or PIN. The maximum number of persons is limited by the control panel exclusively.

Technical Data

Rated operating voltage	12 V bis 24 V DC
Operating voltage range	9 V to 30 V DC
Current consumption stand-by mode	< 125 mA (on average)
Time-limited write/read mode	< 160 mA (incl. status indication)
Luminous background	< 4 mA (time-limited for 5 sec. max. 8 mA)
Interface	RS-485 and Clock/Data
Interface range RS-485	up to 1200 m
Interface range Clock/Data	up to 200 m
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	> 5 cm with ID card (lower range with key rings)
Connecting cable	12-core, shielded, length 6 m
Mounting surface	Any surface, also metal
Type of protection DIN 40 050	IP 54
Environmental class as per VdS	III
Operating temperature range	-25 °C to +55 °C
Housing Material	Plastic
Dimensions (W x H x D)	75 x 173 x 46 mm
Colour	Housing: basalt grey (similar to RAL 7012); Bottom: light grey (similar to RAL 7035)

Required firmware version for connection at:

IK3 evaluating unit for BUS-2	V09.XX or later
IK3 evaluating unit konventionell	V05.XX or later
561 MB24/48	V08.XX or later
561 MB100 (item-no. with index .10)	V08.XX or later

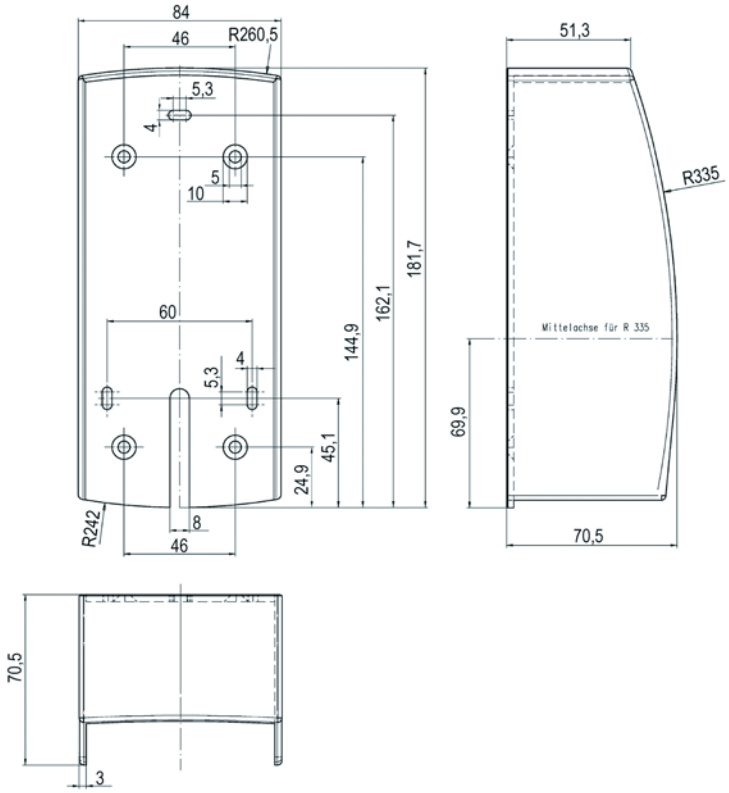
Accessories:

023502	Plastic shield (view/weather) for fingerkey readers

Accessories for Fingerkey

023502 Plastic shield (view/weather) for fingerkey





Dimensions in mm

026363.02 mifare card 4k, coded for mifare fingerkey

Pre-coded password-protected mifare card for storing up to 4 fingerprint templates.

An alternative is to store three finger templates and one replacement code.

Accessories:

027850 Protective cover

026363.07 mifare key ring 4k, coded for mifare fingerkey



Pre-coded password-protected mifare key ring for storing up to 4 fingerprint templates.

An alternative is to store three finger templates and one replacement code.

Technical Data

Operating temperature	-20 °C to +50 °C
Class of protection	IP 67
Dimensions (W x H x D)	34.5 x 43 x 5 mm
Colour	black

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

IK2-operating units

022194 IK2 operating unit



Approval **G196097 (IDT), class C; Z199500 (AC), class B; VSÖ W 031210/30 E**

The IDENT-KEY operating unit 022194 works contactless and without additional mechanical switching device. This operating unit can be used to read all data carriers of the IK2 system (key cap, key ring, ID card).

Its completely encapsulated shape has made it possible to achieve a type of protection according to DIN 40050 of IP 65, which allows uncomplicated mounting, even in outdoor use.

3 LED displays are available for optic display, and additionally an integrated buzzer can be activated. The optical and acoustic displays can be activated either from an intrusion detection control panel or from the IDENT-KEY evaluating unit, as desired.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Integrated buzzer
- LED displays
- For indoor and outdoor use for surface mounting

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	4 mA
Additional current consumption	
- for reading process	40 m
- each LED	10 mA
- Buzzer	75 mA
Reading distance	max. 10 cm
Connecting cable length	6.0 m
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	82 x 90 x 15 mm
Colour	greywhite, similar to RAL 9002

In case of unfavourable installation ground (metal), the range may become reduced.

Accessories:

022193	Decorative film for IK2 operating units (022194 and 022195.10)
022196	Adapter base for IK2 operating unit 022194

022196 Adapter base for IK2 operating unit 022194



Allows horizontal or vertical surface-mounted cable feed.

022193 Decorative foil for IK2 operating units 022194 and 022195.10



Spare part

5 pieces

022195.10 IK2 operating unit, contactless, with numeric keypad



Approval **G196096 (IDT), class C; Z199002 (AC), class C; VSÖ W 031210/31 E**

IDENT-KEY operating unit with numeric keypad, to obtain a coded disarming device.

The IDENT-KEY operating unit 022195.10 works contactless and without additional mechanical switching device. This operating unit can be used to read all data carriers of the IK2 system (key cap, key ring, ID card).

Its completely encapsulated shape has made it possible to achieve a type of protection according to DIN 40050 of IP 65, which allows uncomplicated mounting, even in outdoor use.

3 LED displays are available for optic display, and additionally an integrated buzzer can be activated. The optical and acoustic displays can be activated either from an intrusion detection control panel or from the IDENT-KEY evaluating unit, as desired.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Integrated buzzer
- LED displays
- For indoor and outdoor use for surface mounting
- With numeric keypad for coded disarming device

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	5.5 mA
Additional current consumption	
- for reading process	40 mA
- each LED	10 mA
- Buzzer	75 mA
Reading distance	max. 10 cm
Connecting cable length	6.0 m
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	82 x 126 x 15 mm
Colour	greywhite, similar to RAL 9002

In case of unfavourable installation ground (metal), the range may become reduced.

Accessories:

022193	Decorative film for IK2 operating units (022194 and 022195.10)
022197	Adapter base for IK2 operating unit 022195.10

022197 Adapter base for “Classic” readers and keypads



For running surface-mounted cables and mounting the reader on a metallic surface.

Allows horizontal or vertical surface-mounted cable feed.

Fits access control articles:
026383.00 / 026390.00 / 026380.00 / 026384.10 / 026389.10 / 026064 / 026481.

Fits EMT articles:
022195.10

023500 Plastic shield (view/weather) for “Classic” readers and keypads



Technical Data

Dimensions (W x H x D)	89 x 130.2 x 47 mm

If an already mounted operating unit is to be retrofitted with the plastic shield (view/weather), the operating element must be unscrewed from the wall for mounting. To this end, the decorative film must be removed and replaced with a new one after mounting.
The film is available as spare part.

022198 Comfort-Key IK2



Approval **G102020 (IDS), class C; VSÖ W 070427/30 E**

The Comfort-Key operating unit serves as switching device for arming/disarming intrusion detection systems in combination with IK2 evaluating units and the corresponding code carriers.

The Comfort-Key operating unit is released for operation contactless and without mechanical switching devices.

2 dual LEDs (ready/alarm and disarmed/armed) are available for optical display, which can be activated externally. The LEDs will only be activated when released. The optical and acoustic displays can be activated either from an intrusion detection control panel or by the IDENT-KEY evaluating unit.

The reading mode of the operation unit is permanently active. Thus, the release for an operation enable is activated only by reading a “known” IDENT-KEY data carrier. The data are read as soon as the data carrier is held in front of the reading field.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Contactless - therefore free of wear
- Ident data carrier in the form of:
  - ID card
  - ID key ring
  - ID key cap
- Quick and easy to mount
- LED displays for enable, alarm, disarmed and armed
- Integrated buzzer
- For indoor and outdoor use for surface mounting

Technical Data

Rated operating voltage U_b	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at U_b	25 mA
Additional current consumption	
- each LED	10 mA
- Buzzer	10 mA
Reading distance	to 7 cm (key ring 023100)
Dimensions (W x H x D)	87 x 110 x 28 mm
Type of protection DIN 40 050	IP 65
Environmental class as per VdS	III
Operating temperature range	-20 °C to +50 °C
Storage temperature range	-30 °C to +60 °C
Colour	greywhite, similar to RAL 9002; signal grey, similar to RAL 7004

022199 Replacement cover for IK operating unit 022198



022183 IK2 operating unit



Approval **G196095 (IDT), class C; Z199502 (AC), class B; VSÖ W 070427/33 E**

The IDENT-KEY operating unit serves as switching device for arming/disarming intrusion detection systems in combination with the IDENT-KEY evaluating unit.

In this operating unit version, the combination of contactless IDENT-KEY technology and mechanical switching device is used.

The decision on arming/disarming of the intrusion detection system has been moved to the evaluating unit. Since the evaluating unit is located inside the secured area, mechanical and electric tamper attacks on the operating unit have no effect on arming/disarming.

This operating unit can be used to read all data carriers of the IK2 system (key cap, key ring, ID card). A dual LED and a buzzer are available for display, of which the buzzer can be freely activated.

Performance Features

- Comfortable arming/disarming
- High sabotage security
- Contactless - therefore free of wear
- Ident data carrier in the form of:
  - ID card
  - ID key ring
  - ID key cap
- Integrated buzzer
- LED display
- For indoor and outdoor use for flush mounting

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption	5 mA
Additional current consumption	
- for reading process	20 mA
- each LED	10 mA
- Buzzer	10 mA
Reading distance	max. 6 cm
Type of protection DIN 40 050	IP 44, locking cylinder correctly mounted
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	86 x 107 x 27 mm
Colour	greywhite, similar to RAL 9002

In case of unfavourable installation ground (metal), the range may become reduced.

Accessories:

028034	VdS half cylinder
028031	Half cylinder

022189 Decorative film for IK2 operating unit 022183



Spare part

5 pieces

proX1 reader, Classic design

026480.10 "Classic" proX1 proximity reader



RS-485 and Clock/data interface.

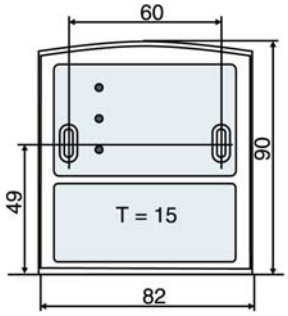
Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	50 mA + 12 mA/LED
Interface	Clock/Data and RS-485
Transmit frequency	125 kHz
Reading range	approx. 12 cm
Type of protection DIN 40 050	IP 64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Dimensions (W x H x D)	82 x 90 x 15 mm
Colour of housing	greywhite, similar to RAL 9002
Colour foil	light-grey, similar to RAL 7035

Adapter base 022196.

Dimensional drawing



026481 "Classic" proX1 proximity reader with keypad



Proximity reader with 12-key keypad.

RS-485 and Clock/data interfaces.

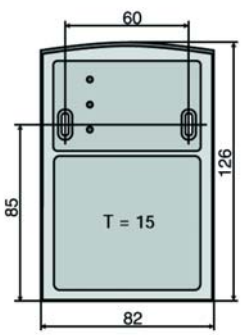
Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption	50 mA + 12 mA/LED
Interface	Clock/Data and RS-485
Transmit frequency	125 kHz
Reading range	approx. 12 cm
Type of protection DIN 40 050	IP 64
Environmental class as per VdS	III
Operating temperature range	-25 °C bis +60 °C
Dimensions (W x H x D)	82 x 126 x 15 mm
Colour of housing	greywhite, similar to RAL 9002
Colour foil	light-grey, similar to RAL 7035

Adapter base 02

Dimensional drawing



026380.00 “Classic” proX1 proximity reader



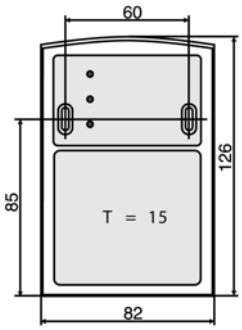
RS-232 interface

Reads proX1 and IK2 proximity ID cards.

Technical Data

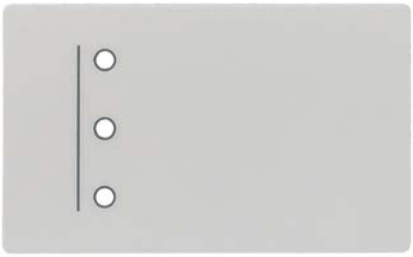
Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption in no-load	50 mA
Current consumption per LED	15 mA
Maximum current consumption	100 mA
Interface	Clock/Data and RS-485
Wire length	max. 30 m
Reading distance	approx. 12 cm
Type of protection DIN 40 050	IP 64
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-30 °C to +60 °C
Dimensions (W x H x D)	82 x 126 x 15 mm
Colour	greywhite, similar to RAL 9002

Adapter base (



Dimensional drawing

026379.10 Foil for contactless readers



026366.10 proX1 proximity reader - with extended range



RS-485 and Clock/data interface.

Reading range 25 cm (9.84in), **not suitable for outdoor use.**

Reads proX1 and IK2 proximity ID cards.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	11 V DC to 15 V DC
Current consumption	400 mA + 12 mA/LED
Interface	RS-485 and Clock/Data
Transmit frequency	125 kHz
Reading range	approx. 25 cm
Type of protection DIN 40 050	IP 40
Environmental class as per VdS	III (dripping water proof)
Operating temperature range	-25 °C to +60 °C
Dimensions (H x W x D)	196 x 146 x 32 mm
Colour of housing	greywhite, similar to RAL 9002
Colour foil	light-grey, similar to RAL 7035



Performance Features

- Reading technology proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
- proX reader can be switched to Hitag 1 or 2
- Fits any device box in flush-mounted or hollow-wall design according to DIN at a screw distance of 60 mm
- With and without keypad
- Three LED display some of which are freely programmable
- Integrated buzzer
- RS-485 or clock/data interface
- Module bus protocol on RS-485 interface
- Large input voltage range, 8V - 30V DC
- Sabotage detection
- For indoor and outdoor use
- Connection via screw terminals with the lift system
- Compact design, easy mounting

The “Insertic” built-in readers are suitable for installation in standard flush-mounted installation boxes. Owing to their flat style, the readers protrude only 11 mm from the wall. In connection with their low-key colouring, the readers fit in harmoniously in both industrial and private surroundings.

LED displays

The 3 LEDs of the reader (green, yellow, red) are always activated by the EU / central control unit in standard operation. Depending on the EU or central control unit used, their function is fixed or can be defined by programming.

In readers with clock/data interface, the yellow LED is always used as operating display.

The bright luminous symbols and an integrated buzzer give clear acknowledgements during operation.

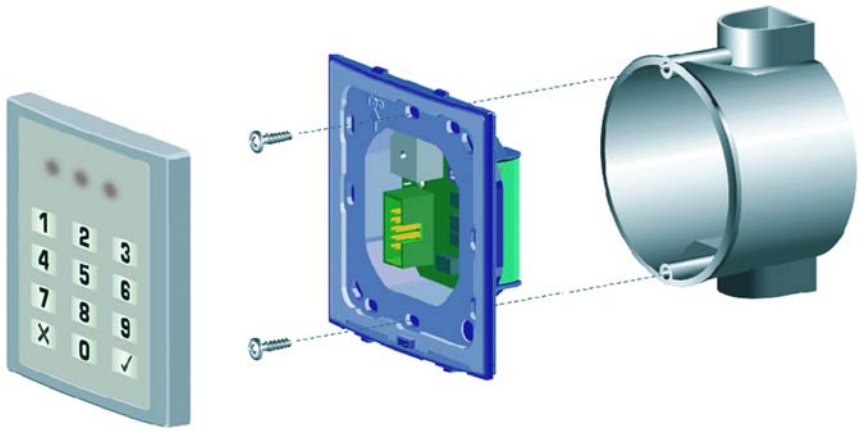
Interfaces

The readers of the “Insertic” series can easily be integrated into Honeywell access control (ACS series), intrusion detection technology (IK3 EU) and time management (access control and ACS-2 plus options) using the standard interfaces RS-485 or clock/data.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	8 to 30 V DC
Power consumption	max. 2.5 W
Interface	Clock/Data or RS-485 (depending on model)
Reading technology	proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
Type of protection DIN 40 050	IP 54
Environmental class as per VdS	III
Operating temperature	-25 °C to +60 °C
Storage temperature	-30 °C to +70 °C
Dimensions (W x H x D)	81 x 81 x 11 mm
Dimensions (ØxD)	Mounting case 56 x 24 mm
Colour	grey, similar to RAL 7047

The clock/data reader 027666 and 027667 can be operated at ACT in conjunction with the converter pcb 027901 only.
The clock/data readers 027670, 027671, 027674 and 027675 are **not** suitable for operation at the ACT controller 026101.10 / 026100.10.



Modular design

proX1, proX2 readers

027666	“Insertic” proX reader without keypad, clock/data interface
027667	“Insertic” proX reader with keypad, clock/data interface
027668	“Insertic” proX reader without keypad, RS-485 interface
027669	“Insertic” proX reader with keypad, RS-485 interface

mifare classic reader

027670	“Insertic” mifare reader without keypad, clock/data interface
027671	“Insertic” mifare reader with keypad, clock/data interface
027672	“Insertic” mifare reader without keypad, RS-485 interface
027673	“Insertic” mifare reader with keypad, RS-485 interface

LEGIC prime reader

027674	“Insertic” LEGIC reader without keypad, clock/data interface
027675	“Insertic” LEGIC reader with keypad, clock/data interface
027676	“Insertic” LEGIC reader without keypad, RS-485 interface
027677	“Insertic” LEGIC reader with keypad, RS-485 interface

LEGIC advant reader

The readers of the series “Insertic” are suitable for installation in standard f.m. switch boxes. Due to their flat design, the readers only extend 11 mm beyond the surface of the wall. In combination with discreet colours, the readers can be integrated seamlessly in both private and industrial environments.

The readers are available with various different interfaces for a broad sectrum of applications.

027674.10	“Insertic” LEGIC reader without keypad, clock/data interface
027675.10	“Insertic” LEGIC advant reader with keypad, clock/data interface
027676.10	“Insertic” LEGIC reader without keypad, RS-485 interface
027677.10	“Insertic” LEGIC advant reader with keypad, RS-485 interface



Performance Features

- Reading technology proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
- proX reader can be switched to Hitag 1 or 2
- Can be integrated into switch product lines with standard intermediate frame (cut-out 50 x 50 mm)
- Low mounting depth, fits in any standard flush-mounted box at a screw distance of 60 mm
- Three LED display some of which are freely programmable
- Integrated buzzer
- RS-485 or clock/data interface
- Module bus protocol on RS-485 interface
- Easy mounting
- Large input voltage range, 8 V - 30 V DC
- Connection via screw terminals with the lift system

The readers of the “Insertic-50” series are suitable for installation in most brand name line of switches with standard intermediate frame. They fit in harmoniously both with unconspicuous standard lines and exclusive lines of switches of high-quality optical appearance.

The reader is available with different interfaces, thus offering a wide range of applications.

LED displays

The 3 LEDs of the reader (green, yellow, red) are always activated by the EU / central control panel in standard operation. Depending on the EU or central control panel, their function is fixed or can be defined by programming.

In readers with clock/data interface, the yellow LED is always used as operating display.

The bright luminous symbols and an integrated buzzer give clear acknowledgements during operation.

Interfaces

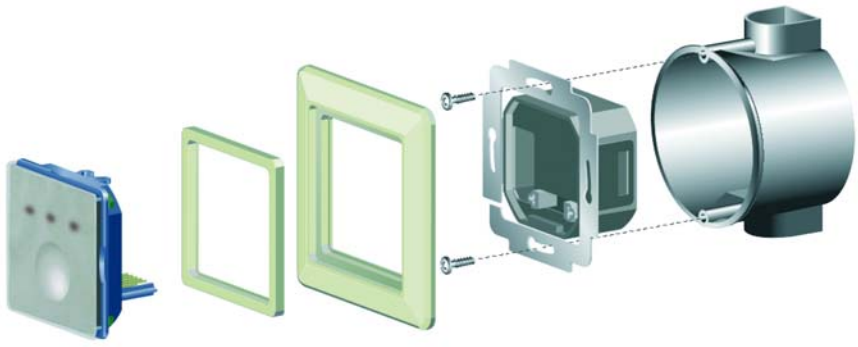
The readers of the “Insertic-50” series can easily be integrated into Honeywell access control (ACS series), intrusion detection technology (IK3 EU) and time management (access control and ACS-2 plus options) using the standard interfaces RS-485 or clock/data.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	8 to 30 V DC
Power consumption	max. 2.5 W
Interface	Clock/Data or RS-485 (depending on model)
Reading technology	proX1 (IK2), proX2 (IK3 without alternating code), mifare or LEGIC (depending on model)
Type of protection DIN 40 050	Depending on the switches used in combination
Operating temperature	-25 °C to +60 °C
Storage temperature	-30 °C to +70 °C
Dimensions (ØxD)	58 x 33 mm
Dimensions (W x H)	Back module 70 x 70 mm
Dimensions (W x H x D)	Front module 50 x 50 x 12 mm
Colour	grey, similar to RAL 7047

The clock/data reader 027660 can be operated at ACT in conjunction with the converter pcb 027901 only.
The clock/data readers 027662 and 027664 are **not** suitable for operation at the ACT controller 026101.10 / 026100.10.

A list of suitable line of switches can be found on our website.



Modular design

proX1, proX2 readers

027660		“Insertic-50” proX reader, clock/data interface
027661		“Insertic-50” proX reader, RS-485 interface

mifare classic reader

027662		“Insertic-50” mifare reader, clock/data interface
027663		“Insertic-50” mifare reader, RS-485 interface

LEGIC prime reader

027664		“Insertic-50” LEGIC reader, clock/data interface
027665		“Insertic-50” LEGIC reader, RS-485 interface

LEGIC advant reader

027664.10		“Insertic-50” LEGIC advant reader, clock/data interface
027665.10		“Insertic-50” LEGIC advant reader, RS-485 interface

Siedle reader without keypad

023330 Contactless Siedle reader IK3 / proX2, white

VdS **Approval G107028 (IDT), class C; Z107005 (AC), class C**

The readers are designed for the Siedle system “Vario”.

RS-485 interface Suitable for ACS-8, IK3 Evaluation unit.

clock/data interface Suitable for ACS-8, ACS-2 and ACT compatible.

Technical Data

Rated operating voltage	12 V / 24 V DC
Rated operating voltage range	8 V to 30 V
Current consumption in no-load operation	< 11 mA
Current consumption in lime limited read/write mode	< 50 mA
Interface	RS-485 and Clock/Data
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	approx. 80 mm with ID cards
Type of protection DIN 40 050	IP 54
Environmental class according to VdS	III
Operating temperature range	-25 °C to +55 °C

Performance Features

- Simple RS-485 address allocation, manual or automatic
- Alternating code method according to VdS 2119 (IDT)
- Simple start-up
- The reader is protected against humidity
- For use outdoors and indoors at temperatures from -25 °C to +55 °C
- Simple assembly

023332.99 Contactless Siedle reader IK3 / proX2, silver

VdS **Approval G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour silver.

023370 Contactless Siedle reader without keypad IK3 / proX2, dark gray glimmer

NEW

VdS **Approval G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour dark gray glimmer.

023372 Contactless Siedle reader without keypad IK3 / proX2, black high gloss

NEW

VdS **Approval G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour black high gloss.

023374 Contactless Siedle reader without keypad IK3 / proX2, white high gloss.

NEW

VdS **Approval G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour white high gloss.

023376 Contactless Siedle reader without keypad IK3 / proX2, amber glimmer

NEW

VdS **Approval G107028 (IDT), class C; Z107005 (AC), class C**

The description and technical data are identical to those of 023330, except colour amber glimmer.

Siedle reader with keypad

023340 Contactless Siedle reader with keypad IK3 / proX2, white



VdS **Approval G107029 (IDT), class C; Z107006 (AC), class C**

The readers are designed for the Siedle system “Vario”.

RS-485 interface Suitable for ACS-8, IK3 Evaluation unit.

clock/data interface Suitable for ACS-8, ACS-2 and ACT compatible.

Technical Data

Rated operating voltage	12 V / 24 V DC
Rated operating voltage range	8 V to 30 V
Current consumption in no-load operation	< 11 mA
Current consumption in lime limited read/write mode	< 50 mA
Interface	RS-485 and Clock/Data
Reading technology	proX2 / IK3 with alternating code (EM4102 and EM4150 Transponder)
Reading distance	approx. 80 mm with ID cards
Type of protection DIN 40 050	IP 54
Environmental class according to VdS	III
Operating temperature range	-25 °C to +55 °C

Performance Features

- Simple RS-485 address allocation, manual or automatic
- Alternating code method according to VdS 2119 (IDT)
- Clear and logical operating concept
- Neutral labelling of keypad
- Abrasion-resistant 10 key keypad with 6 additional functional keys
- Tactile and acoustical acknowledgement
- Simple start-up
- The reader is protected against humidity
- For use outdoors and indoors at temperatures from -25 °C to +55 °C
- Simple assembly

023342 Contactless Siedle reader with keypad IK3 / proX2, silver

VdS **Approval G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour silver.

023371 Contactless Siedle reader with keypad IK3 / proX2, dark gray glimmer

NEW

VdS **Approval G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour dark gray glimmer.

023373 Contactless Siedle reader with keypad IK3 / proX2, black high gloss

NEW

VdS **Approval G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour black high gloss.

023375 Contactless Siedle reader with keypad IK3 / proX2, white high gloss

NEW

VdS **Approval G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour white high gloss.

023377 Contactless Siedle reader with keypad IK3 / proX2, amber glimmer

NEW

VdS **Approval G107029 (IDT), class C; Z107006 (AC), class C**

The description and technical data are identical to those of 023340, except colour amber glimmer.

Performance Features

- Capacitive key sensors (no mobile parts)
- RS-485 interface
- Sabotage detection
- Large input voltage range
- Simple installation via screw/plug-in terminals
- Vandalism-proof and impact-resistant glass front
- No keypad visible in the inactive state
- 12 Input fields (digits 0 to 9 and 2 function keys as 7-segment displays, digit height 7 mm)
- Lockable housing

Combination of a proximity reader with keypad with variable digit arrangement.

"Dark Design": In the basic state, neither keys nor digits are visible. The keypad is activated by identification via a badge during the time of input. The arrangement of the digits is effected by a random generator. The digits are scrambled. The luminous areas are simultaneously the key areas. Suitable for use with increased security requirements. The reader has an RS-485 interface.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 to 30 V DC
Current consumption	600 mA
Power consumption	6 W
Type of protection DIN 40 050	IP 40
Operating temperature range	-20 °C to +60 °C
Storage temperature range	-20 °C to +70 °C
Dimensions (W x H x D)	140 x 210 x 75 mm

When operated on IK3 EU, only the access control function is possible.
Mifare and LEGIC upon request.

026445 proX1 reader with scramble keypad, plastic housing



Technical Data

Colour top	red, similar to RAL 3020
Colour bottom	black

026445.10 proX1 reader with scramble keypad, stainless steel housing



Combination of a proximity reader with keypad with variable digit arrangement.

"Dark Design": In the basic state, neither keys nor digits are visible. The keypad is activated by identification via a badge during the time of input. The arrangement of the digits is effected by a random generator. The digits are scrambled. The luminous areas are simultaneously the key areas. Suitable for use with increased security requirements. The reader has an RS-485 interface.

Technical Data

Colour top	stainless steel-grey
Colour bottom	black

Key rings, caps

023101 IK3/proX2 key ring with ring



IDENT-KEY key ring with ring coded for alternating code method

Contactless ID information carrier. For use with IK3, AC and T&A. The individual coding of the chip makes each ring unique. On IK3 systems, the very secure alternating code method can additionally be used.

This key ring makes it easy to use systems for contactless readers such as IK3 switching devices and the corresponding readers of access control and time recording systems. You just place the key against the reading station for contactless readers.

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

023100 IK2/proX1 key ring with ring



For proX1, proX2 and IK2 contactless readers.

Contactless ID information carrier. For use with IK2, AC and T&A. The individual coding of the chip makes each ring unique.

This key ring makes it easy to use systems for contactless readers such as IK2 switching devices and the corresponding readers of access control and time recording systems. You just place the key against the reading station for contactless readers.

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards. IK2 key rings can be used with IK3 systems as well. However, the alternating code methode is not supported.

022185 ID key cap



For proX1, proX2 and IK2 proximity readers.

The keys belonging to the system are fitted with a key cap. The module integrated in the cap has already been provided by the factory with an electronic coding. For use with IK2, AC, T&A and IK3 without alternating code.

The coded key cap is read wirelessly by the operating unit via the medium air.

The key cap is suitable for round 22.5 mm to 25 mm key heads and for rectangular key heads.

Technical Data

Class of protection DIN 40050	IP 67
Environmental class as per VdS	II
Operating temperature range	-20 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	35 x 39 x 8 mm
Colour	black, similar to RAL 9005

Please note that the reading distance of the ID key cap is somewhat lower than that of ID cards.

Phase-out date 31.12.2012.

022172 Gluing set



Two-component adhesive for bonding the key caps.

Phase-out date 31.12.2012.

022190 proX1 key ring



For proX1 and proX2 proximity readers.

Simple design for access control and IK2 readers without sticker.

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.

Proximity ID carriers

Technical Data

Operating temperature range	-35 °C to +50 °C
Bending and torsion property	according to ISO 7816-1
Dimensions (W x H x D)	85.60 x 53.98 x 0.76 mm (according to DIN ISO)

Minimum purchase of cards 10 pieces.

With card order incl. encoding or printing for less than 10 pieces a surcharge for quantities below minimum will be charged, which is 36,00 € for magnetic cards and 79,00 € for all other card types.

026378 IK3/proX2 ID card, printable

ID card for proximity readers with alternating code method, printable

The IDENT-KEY ID card is a data and information carrier in the cheque card format for IK3 alternating code methods. The electronics is encapsulated inside the card and thus completely protected from moisture and largely from mechanical stress.

Accessories:

027850 Protective cover

026375 IK3/proX2 ID card, with imprint



ID card for proximity readers with alternating code method, with inscription

With Honeywell logo for IK3 alternating code method.

Accessories:

027850 Protective cover

026368.00 IK2/proX1 ID card, printable

For proX1, proX2 and IK2 proximity readers.

The ID card is a data and information carrier in the cheque card format. The electronics is encapsulated inside the card and thus completely protected from moisture and largely from mechanical stress.

IK2 cards can be used with IK3 systems as well. However, the alternating code methode is not supported.

Accessories:

027850 Protective cover

026370.00 IK2/proX1 ID card, printed



For proX1, proX2 and IK2 proximity readers.

Including Honeywell logo.

Accessories:

027850 Protective cover

Contactless with magnetic stripe

026377 IK3/proX2 ID card, printable, with magnetic stripe



For proximity readers with IK3 alternating code method, without imprint with magnetic stripe uncoded, printable.

Accessories:

027850 Protective cover

026376 IK3/proX2 ID card, with inscription with magnetic stripe



For proximity readers with IK3 alternating code method, with imprint and magnetic stripe uncoded

Accessories:

027850 Protective cover

026371.00 IK2/proX1 ID card, with inscription, with uncoded magnetic stripe



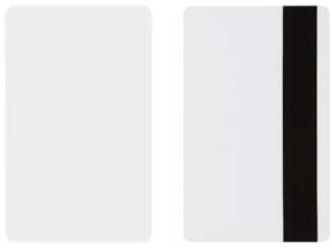
For proX1, proX2 and IK2 proximity readers.

With magnetic stripe (uncoded), with Honeywell logo.

Accessories:

027850 Protective cover

026372.00 IK2/proX1 ID card, printable, with uncoded magnetic stripe



For proX1, proX2 and IK2 proximity readers.

With magnetic stripe (uncoded).

Accessories:

027850 Protective cover

mifare classic

The prices given below for mifare cards are unit prices for one card.
Minimum order quantity 10 items.

026364 mifare card, printable

For mifare readers.

mifare card on both sides blank, white / high-gloss.

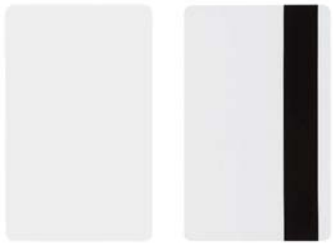
Badge code with removable adhesive label “Badge code and article number”.

Accessories:

027850 Protective cover

Size of ID medium 1 k.

026364.01 mifare card, printable, with magnetic stripe



For mifare and magnetic card readers.

mifare card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.

Badge code with removable adhesive label “Badge code and article number”.

Accessories:

027850 Protective cover

Size of ID medium 1 k.

026364.02 mifare card, printable

For mifare readers.

mifare card on both sides blank, white, high-gloss.

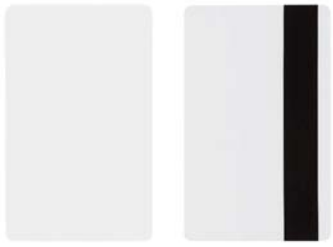
Programmed with Esser data organisation, labelled with continuous badge number.

Accessories:

027850 Protective cover

Size of ID medium 1 k.

026364.03 mifare card, printable, with magnetic stripe



For mifare and magnetic card readers.

mifare card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.

Programmed with Esser data organisation, labelled with continuous badge number.

Accessories:

027850 Protective cover

Size of ID medium 1 k.

026364.05 mifare key ring



For mifare readers.

mifare key ring black / grey

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Class of protection	IP 67
Operating temperature	-20 °C to +50 °C
Dimensions (W x H x D)	32 x 53 x 5 mm
Colour	black

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards. Size of ID medium 1 k.

mifare DESFire EV1

026362 mifare card DESFire EV1 card blank, printable

For mifareDESFire EV1 readers.

4k mifare DESFire EV1 card on both sides blank, white / high-gloss.

No encryption with NovaTime/NovaLite.

Accessories:

027850 Protective cover

LEGIC prime

The prices given below for LEGIC cards are unit prices for one card.
Minimum order quantity 10 items.

026367 LEGIC card, printable

For LEGIC readers.

LEGIC identity card on both sides blank, white, high-gloss.

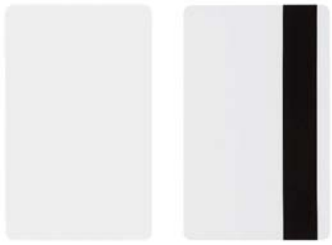
Badge code with removable adhesive label “Badge code and article number”.

Accessories:

027850 Protective cover

Size of ID medium 256 Byte.

026367.01 LEGIC card, printable, with magnetic stripe



For LEGIC and magnetic card readers.

LEGIC identity card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.

Badge code with removable adhesive label “Badge code and article number”.

Accessories:

027850 Protective cover

Size of ID medium 256 Byte.

026367.02 Blank LEGIC card, blank

For LEGIC readers.

LEGIC identity card on both sides blank, white, high-gloss.

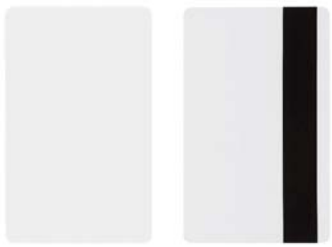
Programmed with Esser data organisation, labelled with continuous badge number.

Accessories:

027850 Protective cover

Size of ID medium 256 Byte.

026367.03 LEGIC card, printable, with magnetic stripe



For LEGIC and magnetic card readers.

LEGIC identity card with magnetic stripe HICO (uncoded) on both sides blank, white, high-gloss.

Programmed with Esser data organisation, labelled with continuous badge number.

Accessories:

027850 Protective cover

Size of ID medium 256 Byte.

026367.05 LEGIC key ring



For LEGIC readers.

LEGIC key ring black / grey.

Badge code with removable adhesive label “Badge code and article number”.

Technical Data

Class of protection	IP 67
Operating temperature	-20 °C to +50 °C
Dimensions (W x H x D)	32 x 53 x 5 mm
Colour	black

Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.
Size of ID medium 256 Byte.

LEGIC advant

026373 LEGIC advant card

For LEGIC advant readers.

4 K LEGIC advant identity card on both sides blank, white, high-gloss.

Accessories:

027850 Protective cover

026373.02 LEGIC advant card, blank

For LEGIC advant readers.

4 K LEGIC identity card on both sides blank, white, high-gloss.

Programmed with Esser data organisation, with continuous badge number.

Accessories:

027850 Protective cover

ID magnetic cards

The prices given below for cards are unit prices for one card, when purchasing 10 or more cards per type.

026000.10 ID magnetic card (coded), with inscription



Magnetic card according to ISO standard 7810.

Laminated polyvinyl chloride (PVC).

Ground white with print and three-line label box.

Technical Data

Format	85.7 x 54 x 0.8mm
Magnetic stripe	as per DIN 9785 (HiCo) encoded

026003.10 ID magnetic card, codeable, with inscription



Magnetic card according to ISO standard 7810.

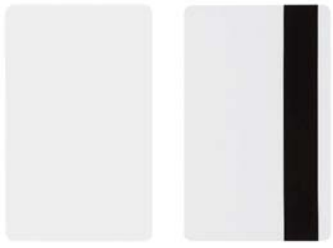
Laminated polyvinyl chloride (PVC).

Ground white with print and three-line label box.

Technical Data

Format	85.7 x 54 x 0.8mm
Magnetic stripe	as per DIN 9785 (HiCo) not encoded, see encoding service.

026000.11 ID magnetic card (coded), without inscription



Magnetic card according to ISO standard 7810.

Laminated polyvinyl chloride (PVC).

Ground neutral white.

Technical Data

Format	85.7 x 54 x 0.8mm
Magnetic stripe	as per DIN 9785 (HiCo) encoded

Combi data carriers

Combi data carriers, e. g. mifare **and** proX on request.

Card coding

026008.10 Coding of ID magnetic or chip cards



Between 10 and 99 units.

Not subject to discount.

026008.00 Coding of ID magnetic or chip cards



From 100 units

Not subject to discount.

026008.01 Sealing and coding magnetic card inlets



Not subject to discount.

026367.04 Coding a LEGIC card



With customer-specific data, from 10 units.

Not subject to discount.

026364.04 Coding a mifare card



With customer-specific data, from 10 units.

Not subject to discount.

Card print

027865 Printing continuous numbers 1 to 100 units



Not subject to discount.

027865.01 Printing continuous numbers from 101 units



Not subject to discount.

027870.99 **Card print**



Initialisation costs black/white or coloured, once per order and card side.

Not subject to discount.

027871 **Card print**



Per page black/white, 1 - 100 units.

Not subject to discount.

027872 **Card print**



Per page black/white, 101 - 1000 units.

Not subject to discount.

027873 **Card print**



Per page black/white, from 1001 units.

Not subject to discount.

027874 **Card print**



Per page coloured, 1 - 100 units.

Not subject to discount.

027875 **Card print**



Per page coloured, 101 - 1000 units.

Not subject to discount.

027876 **Card print**



Per page coloured, from 1001 units.

Not subject to discount.

Accessories for cards

026009.00 ID card holder



Card holder made of black plastic with clip for horizontal or vertical mounting. Suitable for all ID cards according to ISO standard 7810.

Other colours upon request.

027850 10 protective cover for EC, ID cards



Further badge accessories available upon request.

10 pieces

Read-in station

023360 proX2, IK3 USB desktop reader



Contactless card reading for IQ MultiAccess, IQ SystemControl, NovaTime and WINFEM Advanced. The reading station is connected to the PC via the built-in USB interface. No additional power supply required.

Reads proX1/IK2 and proX2/IK3 data carriers. By default, data output is in the IS format, but can be switched to the ZK format or IK3 format.

Technical Data

Operating voltage	5 V DC via USB
Current consumption	35 mA
Connecting cable	approx. 1.75 m
Display	DUO-LED green/red
Dimensions (W x H x D)	89 x 16 x 89 mm
Colour	light-grey, similar to RAL 7035

027468 USB desktop reader LEGIC advant

NEW



Contactless card reading via IQ MultiAccess and IQ SystemControl. Connection via USB interface. USB plug type A, cable length ca. 2 m.

Technical Data

Voltage supply	5 V DC via USB Port
Current consumption	max. 180 mA
Interface	USB 2.0 (virtual COM Port driver controlled)
Reading distance	ID card in EC format approx. 4 cm; key fob approx. 1.5 cm
Type of protection according to DIN 40 050	IP 40
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-30 °C to +70 °C
Dimensions (L x W x H)	112 x 54 x 27 mm
Colour	slate grey (similar to RAL 7015)

Unterstützung von NovaTime ab Version 4.1.01.

026487 Read-in station for non-read-protected mifare cards

NEW



Contactless reading and writing of mifare classic and DESFire EV1 cards via IQ MultiAccess and IQ SystemControl. Connection via USB interface.

USB plug type A, cable length ca. 2 m.

Technical Data

Voltage supply	5 V DC via USB Port
Current consumption	max. 180 mA
Interface	USB 2.0 (virtual COM Port driver controlled)
Reading distance	ID card in EC format approx. 4 cm; key fob approx. 1.5 cm
Type of protection according to DIN 40 050	IP 40
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-30 °C to +70 °C
Dimensions (L x W x H)	112 x 54 x 27 mm
Colour	slate grey (similar to RAL 7015)

Support of NovaTime/NovaLite in preparation.

Accessories

026028.00 Cleaning set for mortise readers



The cleaning set is suitable for all magnetic mortise and swipe readers. This cleaning set consists of a cleaner and five cleaning cards.

Code keypad units

The door code control units that are no longer available are replaced with the conventional IK3 evaluating unit 023310 and the corresponding operating units. When existing components are replaced, both components (keypad and control unit) must always be replaced.

The keypad units are not mutually exchangeable.

Code keypad units for indoor and outdoor installation

025105 Keypad unit, lockable (matrix)



VdS **Approval** **G193010 (IDS), class C; VSÖ W 070427/40 E**

Code keypad units are used in door code systems or in hazard detection systems with coded disarming device.

Connection: 3/4 matrix. The keys of the unit are arranged as a matrix. This means that not every key has its own connection.

(12 keys = 7 connections)

Surface-mounted version including three LEDs and a buzzer.

Technical Data

Type of protection	IP 32
Dimensions (W x H x D)	73 x 164 x 36 mm
Colour	greywhite, similar to RAL 9002



Motion detectors

- Viewguard DUAL
- Viewguard PIR
- Passive infrared detectors SCM
- Dual motion detectors
- PIR detectors
- Infrared light barrier

Motion detector with combined passive infrared plus microwave sensor

Performance Features

- Approvals / Conformity
  - Viewguard DUAL AM BUS-2/BUS-1 or FAI
    VdS Class C (G108039 / G106078)
    EN 50131-1 and EN 50131-2-4: 2008-10, Grade 3
  - Viewguard DUAL BUS-2/BUS-1 or FAI:
    VdS Class B (G108512 / G106518)
    EN 50131-1 and EN 50131-2-4: 2008-10, Grade 2
- Anti-mask monitoring AM (AM detectors only)
  - Detects covering and spraying of the window, range up to 30 cm
- Microwave sensor
  - can be deactivated in the “unarmed” state
- LED display
  - Unambiguous display of the operating state and detection display in the walk test mode via two LEDs
- FAI-logic
  - The detector triggered first can be identified by means of the LED display
- Walk test function
  - Easy method of performing a functional control and a detection range check
- Detector group input (BUS detectors only) for integrating contacts/potential-free detectors into the BUS-2 system (on 561-MB24/48/100 control panels) or BUS-1 system (on 561-MB24/48/100 and MB256 plus control panels). The detector group is not clearable
- Range of detection
  - Range programmable in four steps
- Sensitivity of detection
  - Sensitivity programmable in two steps.
- Storing / not storing fault/covering (AM detectors only)
  - Storing: Message is stored until it is cleared
  - Not storing: Message is reset automatically once the fault/covering has been eliminated
- Self-test (AM detectors only)
  -Cyclic detector test for correct functioning
- Operating voltage monitoring
  - Fault signal when operating voltage is too low.
- Temperature measurement (BUS-2 on 561-MB24/48/100 only)
  - Temperature alarm when ambient temperature is inadmissibly high/low
  - Alarm thresholds programmable
- Tear-off protection / Cover contact
  - For mounting according to EN 50131-2-4 Grade 3
- Versatile mounting options (see figure)
  - Inclined vertically downward, horizontally toward the left or right, corner mounting and
  - mounting on adjusting hinge or ball joint (accessories)

The Viewguard DUAL motion detectors have sensor systems working independently, **PIR motion detector and microwave sensor.**

The functional principle of the detectors is based on an intelligent connection of the two sensor systems. This connection makes the detectors particularly insensitive to air and heat turbulences, resulting in optimum alarm detection with extremely high false alarm immunity.

For continuous detection, the detector are equipped with a high-quality mirror optics (area optics).

The detectors are suitable for intrusion detection control panels equipped with BUS-2 or BUS-1 technology or conventional connection technology and are available with or without **A**nti-**M**ask (AM) monitoring.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8 V to 15 V DC
Current consumption at 12 V DC	6.6 mA BUS-2 / 9 mA BUS-1 / 7.6 mA FAI / 4 mA LED
Range	programmable
Volumetric optics	22 zones, up to 15 m, opening angle 80°
Installation position	vertical, optics down
Tilting range	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Alarm display	LED red
Fault display	LED yellow
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	64 x 158 x 48 mm

No other mirror optics (curtain- or long range optics) applicable for dual detectors.

Accessories:

033390 /.17	Adjusting hinge, horizontal ±20°, vertical +4° to -8° according to VdS and EN Grade 2
033588 /.17	Ball joint set for wall and corner mounting, horizontal ±45°, vertical ±20° not according to VdS and EN
033391 /.17	Seal, (20 per packaging unit)

033442.21 Viewguard AM BUS-2/BUS-1 with area optics



VdS **Approval** **Approvals:** **G108039 (IDT), class C**
According: **EN 50131-2-4 (08/10), grade 3, environmental class II**

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	trafficwhite, similar to, RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 3

The devices may only be marketed and operated in the following countries:

Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium, Netherlands, Bulgaria and Romania.

033443.21 Viewguard DUAL BUS-2/BUS-1 with area optics



VdS **Approval** **Approvals:** **G108512 (IDT), class B**
According: **EN 50131-2-4 (08/10), grade 2, environmental class II**

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 2

The devices may only be marketed and operated in the following countries:

Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium, Netherlands, Bulgaria and Romania.

033440.01 Viewguard DUAL AM FAI with area optics



VdS **Approval** **Approvals:** **G106078 (IDT), class C; VSÖ W080312/12E**
According: **EN 50131-2-4 (08/10), grade 3, environmental class II**

Technical Data

Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 3

The devices may only be marketed and operated in the following countries:

Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium and Netherlands, Bulgaria and Romania.

033441.01 Viewguard DUAL FAI with area optics



VdS **Approval** **Approvals:** **G106518 (IDT), class B; VSÖ GS-N080312/22E**
According: **EN 50131-2-4 (08/10), grade 2 environmental class II**

Technical Data

Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-4: 2008-10, grade 2

The devices may only be marketed and operated in the following countries:

Germany, Austria, Switzerland, Liechtenstein, Poland, Slovakia, Czech Republic, Luxembourg, Turkey, Greece, Latvia, Hungary, Belgium, Netherlands, Bulgaria and Romania.

033450.01 Viewguard DUAL AM FAI



VdS **Approval**

According:	**EN 50131-2-4:2008-10, grade 3 environmental class II**	
Norway:	**FNH:**	**PIR/MW 004/08**
Denmark:	**F&P:**	**10.212.00555**
France:	**NFa2P:**	**2830420410A0/283041-00**

The devices may only be sold and operated in the following countries:

France, Spain, Italy, Portugal, United Kingdom, Denmark, Norway, Bulgaria and Romania.

033451.01 Viewguard DUAL FAI



VdS **Approval**

According:	**EN 50131-2-4:2008-10, grade 2 environmental class II**	
Norway:	**FNH:**	**PIR/MW 005/08**
Denmark:	**F&P:**	**10.212.00554**
France:	**NFa2P:**	**2820421200A0/282120-00**

The devices may only be sold and operated in the following countries:

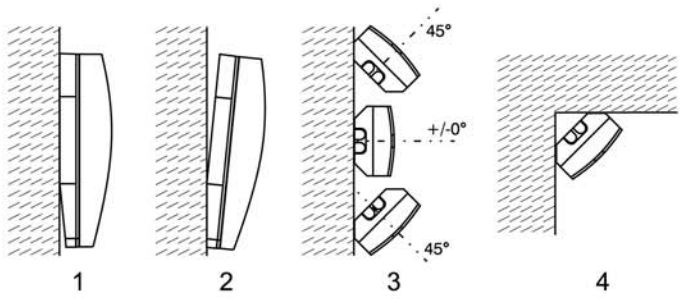
France, Spain, Italy, Portugal, United Kingdom, Denmark, Norway, Bulgaria and Romania.

Viewguard DUAL mounting options and detection area

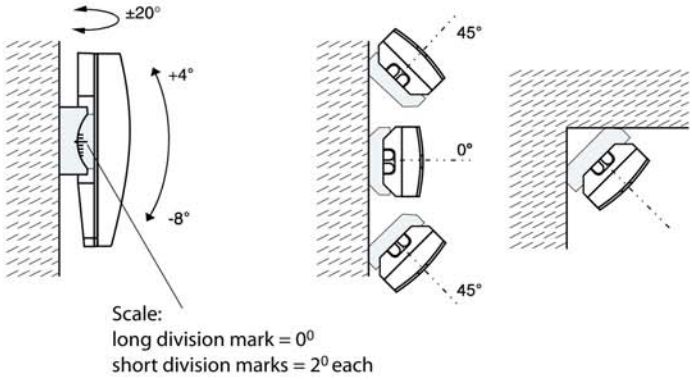
Viewguard DUAL mounting options

Mounting without adjusting hinge

- Vertical 0° (1) or inclined downward by 3° (2)
- Horizontal 0° or 45° toward the left or right (3)
- Corner mounting (4)



Mounting with adjusting hinge (accessories)



Detection range

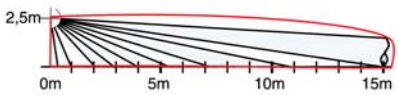
Area optics with sneak-by guard
Recommended mounting height 2,5 m for optimal operating sensitivity.

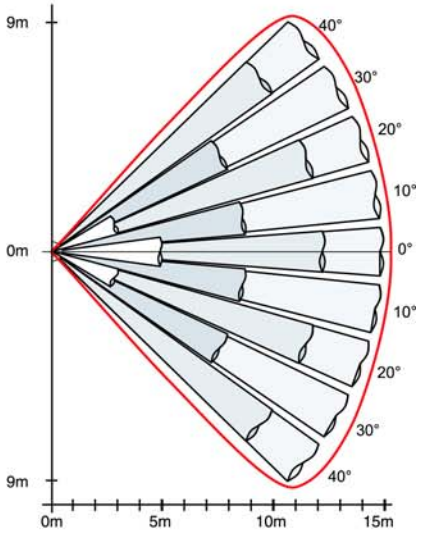
Typical detection coverage
with range setting 15 m:

Lens splitting:
22 zones over 5 levels
Opening angle:
80° horizontal, 64° vertical
PIR and microwave range:
(8 / 11 / 13 / 15m)

PIR and microwave work automatically with the same range

Mounting 0° inclination





Passive infrared motion detectors

Performance Features

- Approvals / Conformity
  - Viewguard PIR AM BUS-2/BUS-1 or FAI: VdS Class C (G108036/G108037/G108038 or G107087) EN 50131-1 and EN 50131-2-2: 2008-09, Grade 3
  - Viewguard PIR BUS-2/BUS-1 or FAI: VdS Class B (G108509/G108510/G108511 or G107509) EN 50131-1 and EN 50131-2-2: 2008-09, Grade 2
- Anti-mask monitoring AM (AM detectors only)
  - Detects covering and spraying of the window, range up to 30 cm
- LED display
  - Unambiguous display of the operating state and detection display in the walk test mode via two LEDs
- FAI-logic (first alarm indication, only BUS-2 on 561-MB24/48/100 and FAI detectors)
  - The detector triggered first can be identified by means of the LED display
- Walk test function
  - Easy method of performing a functional control and a detection range check
- Detector group input (BUS detectors only) for integrating contacts/potential-free detectors into the BUS-2 system (on 561-MB24/48/100 control panels) or BUS-1 system (on 561-MB24/48/100 and MB256 plus control panels) the detector group is not clearable
- Range of detection
  - Range programmable in four steps
- Sensitivity of detection
  - Sensitivity programmable in two steps
- Storing / not storing fault/covering (AM detectors only)
  - Storing: Message is stored until it is cleared
  - Not storing: Message is reset automatically once the fault/covering has been eliminated
- Self-test (AM detectors only)
  - Cyclic detector test for correct functioning
- Operating voltage monitoring
  - Fault signal when operating voltage is too low
- Temperature measurement (BUS-2 on 561-MB24/48/100 only)
  - Temperature alarm when ambient temperature is inadmissibly high/low
  - Alarm thresholds programmable
- Tear-off protection / Cover contact
  - For mounting according to EN 50131-2-2 Grade 3
- Versatile mounting options (see figure)
  - Inclined vertically downward, horizontally toward the left or right, corner mounting and mounting on adjusting hinge or ball joint (accessories)

The Viewguard PIR detectors are motion detectors that work by the passive infrared principle.

For continuous detection, the detector are equipped with a high-quality mirror optics. The standard models are delivered with a mirror for surface optics. Upon request the detectors can be upgraded on-site to route or curtain optics by integrating separately available accessories.

The detectors are suitable for intrusion detection control panels equipped with BUS-2 or BUS-1 technology or conventional connection technology and are available with or without **A**nti-**M**ask monitoring.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	8 V to 15 V DC
Current consumption at 12 V DC	0.6 mA BUS-2 / 3 mA BUS-1 / 1.6 mA FAI / 4 mA LED
Range	programmable
Volumetric optics	22 zones, up to 15 m, opening angle 80°
Installation position	vertical, optics down
Tilting range	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Alarm display	LED red
Fault display	LED yellow
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	64 x 130 x 48 mm

Accessories:

033434	Viewguard PIR set of mirrors, curtain optics (3 per packaging unit)
033435	Viewguard PIR set of mirrors, route optics (3 per packaging unit)
033390 /.17	Adjusting joint, horizontal ±20°, vertical +4° to -8° according to VdS and EN Grade 2
033588 /.17	Ball joint set for wall and corner mounting, horizontal ±45°, vertical ±20° not according to VdS and EN
033391 /.17	Seal, (20 per packaging unit)

033432.21 Viewguard PIR AM BUS-2/BUS-1 with area optics



VdS **Approval**

Approvals: G108036 (IDT), class C
G108037 (IDT), class C,
retrofitted for vertical curtain optics
G108038 (IDT), class C,
retrofitted for long range optics
According: EN 50131-2-2 (08/09),
grade 3 environmental class II

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 3

033332.21 Viewguard PIR BUS-2/BUS-1 with area optics



VdS **Approval**

Approvals: G108509 (IDT), class B
G108510 (IDT), class B,
retrofitted for vertical curtain optics
G108511 (IDT), class B,
retrofitted for long range optics
According: EN 50131-2-2 (08/09),
grade 2 environmental class II

Operation on BUS-2 or alternatively on BUS-1.

Technical Data

Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 2

033430.01 Viewguard PIR AM FAI with area optics



VdS **Approval**

Approvals: G107087 (IDT), class C
G107088 (IDT), class C,
retrofitted for vertical curtain optics
G107091 (IDT), class C,
retrofitted for long range optics
According: EN 50131-2-2 (08/09),
grade 3 environmental class II
FNH: PIR-012/08
F&P: 10.212-00553
MABISZ: 4144-10-4/20080522
INCERT: C0230399
REQ: 0089
SBSC: 08-166, vertical curtain optics
08-167, long range optics
08-241, wide angle optics
FI: RL 08 006
LPCB: 877a
NFa2P: 2630420470A0/263047-00
263047-01, wide angle optics
262281-02, long range optics
262281-03, vertical curtain optics
VSÖ: W080605/05E, long range optics
W080605/07E, vertical curtain optics

Technical Data

Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 3

033330.01 **Viewguard PIR FAI with area optics**



VdS **Approval**

Approvals: **G107509 (IDT), class B**
G107510 (IDT), class B,
retrofitted for vertical curtain optics
G107513 (IDT), class B,
retrofitted for long range optics

According: **EN 50131-2-2 (08/09),**
grade 2 environmental class II

Technical Data

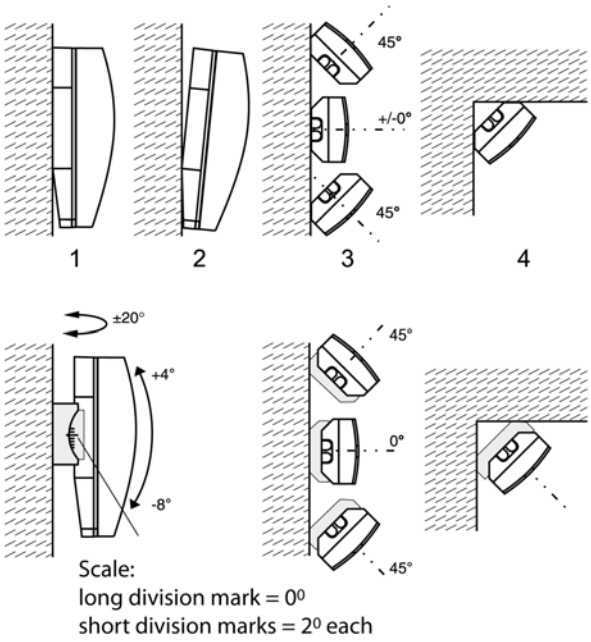
Colour	trafficwhite, similar to RAL 9016
Conformity to guidelines	EN 50131-1 and EN 50131-2-2: 2008-09, grade 2

Viewguard PIR mounting options

Mounting without adjusting hinge

- Vertical 0° (1) or inclined downward by 3° (2)
- Horizontal 0° or 45° toward the left or right (3)
- Corner mounting (4)

Mounting with adjusting hinge (accessories)



Application examples

Detection range

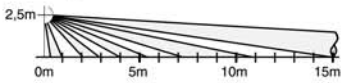
Detection range

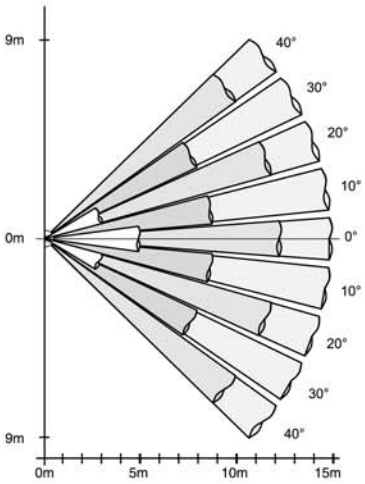
Area optics with sneak-by guard
Recommended mounting height 2,5 m
for optimal operating sensitivity.

Typical detection coverage with range setting 15 m:

Lens splitting 22 zones at 5 levels
Opening angle 80° hor., 64° vert.
Range 8 / 11 / 13 / 15 m

Mounting 0° inclination



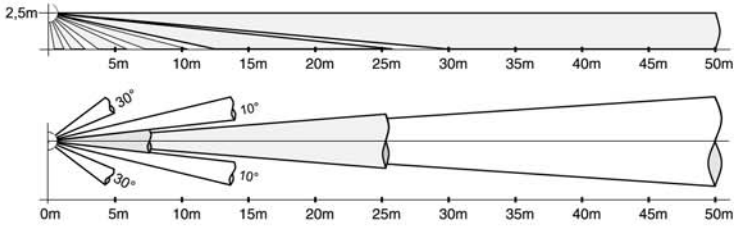


Standard equipment includes a mirror for area optics. If required, the detectors can be retrofitted to long-range or curtain optics with accessories that are available separately.

Long-range optics (Item no. 033435)
Suitable for monitoring corridors

Lens splitting 8 zones on 6 levels
Opening angle 30° hor., 78° vert.
Range 29 / 35 / 42 / 50 m

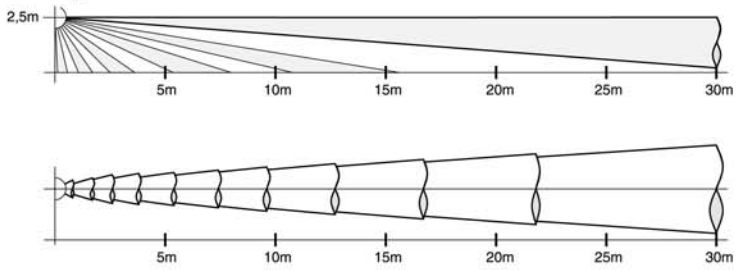
Mounting 0° inclination



Curtain optics (Item no. 033434)
Suitable for monitoring possible intrusion locations

Lens splitting 11 zones on 11 levels
Opening angle 7,5° hor., 85° vert.
Range 17 / 21 / 25 / 30 m

Mounting 0° inclination



Easy retrofitting of the mirror optics on site:

1. Remove screw
2. Fold up mirror
3. Remove mirror

Installation:
Insert the mirror in reverse order. Insert the screw and tighten slightly.
Close housing.





Passive infrared detectors SCM 2000



The PIR system series “SCM 2000” is equipped with a mirror optics and corresponds to VdS class B. The SCM 2000 has been optimised for high tamper security and high detection sensitivity.

2 different connection methods are available: conventional connection technology by means of first alarm detection logic; BUS-1 connection technology (3-wire). The BUS-1 technology provides the advantages of a 3-wire data bus. Already existing systems can be expanded without any problems. The low installation expenditure allows a time- and cost-effective installation. A selective activation and evaluation give the operator high operating convenience and a high degree of safety. For ease of adaptation to different room situations, the SCM 2000 is available with 3 different optics:

- Area optics, for monitoring rooms
- Long range optics, for monitoring corridors
- Curtain optics for selective traps

The programmable detection range and sensitivity the 3 optics and the elaborate mounting options allow optimum adaptation to special room situations at any time.

Performance Features

- 2 connection technologies: First alarm indication (FAI) or BUS-1
- Attractive design
- Compact housing
- Low overall current consumption
- 3 different mirror optics for selective premises monitoring
- Excellent response sensitivity through a balanced synthesis between optics and electronics
- Maximum immunity to radiated noise by means of a special layout system
- Range programmable in 4 steps
- Sensitivity programmable in 2 steps
- Connection via screw terminals with the lift system
- Tamper monitoring according to VdS
- Easy installation and startup
- Corner or wall mounting, as desired
- Temperature compensation
- Walk test

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	armed max. 3.5 mA FAI / max. 2.5 mA BUS-1; walk test (incl. LED) max. 6.5 mA (FAI and BUS-1)
Alarm contact	Switching capacity 30 V DC / 100 mA
Tamper switch	Switching capacity 30 V DC / 100 mA
Internal resistance	max 10 Ohm
Alarm display	LED red
Range	programmable
Volumetric optics	22 zones, up to 16 m
Long range optics	8 zones, up to 50 m
Curtain optics (vertical)	11 zones, up to 30 m
Installation position	vertical, optics down
Tilting range	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	57 x 138 x 49 mm
Colour	greywhite, similar to RAL 9002

033360 **SCM 2000 first alarm indication with area optics**

VdS **Approval** **G196652 (IDT), class B; VSÖ P 031210/37 E**

033370 **SCM 2000 BUS-1 with area optics**

VdS **Approval** **G196653 (IDT), class B; VSÖ P 031210/39 E**

033361 **SCM 2000 first alarm indication with long range optics**

VdS **Approval** **G196675 (IDT), class B; VSÖ P 031210/40 E**

033371 **SCM 2000 BUS-1 with long range optics**

VdS **Approval** **G196676 (IDT), class B; VSÖ P 031210/41 E**

033362 **SCM 2000 first alarm indication with curtain optics**

VdS **Approval** **G196672 (IDT), class B; VSÖ P 031210/42 E**

033372 **SCM 2000 BUS-1 with curtain optics**

VdS **Approval** **G196673 (IDT), class B; VSÖ P 031210/43 E**

Passive infrared detectors SCM 3000



The PIR system series “SCM 3000” is equipped with a mirror optics and corresponds to the requirements of VdS class C. The precise optics and the sophisticated sensor electronics with temperature compensation give a maximum degree of detection and sabotage security. The monitoring against covering (range up to 20 cm) integrated in the SCM 3000 informs the operator on sabotage in the form of covering up or spraying.

The BUS-1 technology provides the advantages of a 3-wire data bus.

Already existing systems can be expanded without any problems. The low installation expenditure allows a time- and cost-effective installation. A selective activation and evaluation give the operator high operating convenience and a high degree of safety.

For ease of adaptation to different room situations, the SCM 3000 is available with 3 different optics:

- Area optics, for monitoring rooms
- Route optics, for monitoring corridors
- Curtain optics for selective traps

The programmable detection range and sensitivity the 3 optics and the elaborate mounting options allow optimum adaptation to special room situations at any time.

Performance Features

- BSI Approval
- BUS-1 connection technology
- Attractive design
- Compact housing
- Low overall current consumption
- 3 different mirror optics for selective premises monitoring
- Maximum immunity to radiated noise by means of a special layout system
- Range programmable in 4 steps
- Sensitivity programmable in 2 steps
- Digital interference evaluation
- Connection via screw terminals with the lift system
- Tamper monitoring according to VdS
- Easy installation and startup
- Corner or wall mounting, as desired
- Monitoring against covering: It detects when the detector is covered up or glued up. With or without storage
- Cyclic self-test: In the disarmed state, correct function and supply voltage are tested
- Temperature compensation
- Walk test

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V to 15 V DC
Current consumption at 12 V DC	armed max. 3 mA, walk test (incl. LED) max. 8 mA
Alarm contact	Switching capacity 16 V DC / 100 mA
Tamper switch	Switching capacity 30 V DC / 100 mA
Internal resistance	max 10 Ohm
Alarm display	LED red
Fault display	LED yellow
Range	programmable
Volumetric optics	22 zones, up to 16 m
Long range optics	8 zones, up to 50 m
Curtain optics (vertical)	11 zones, up to 30 m
Installation position	vertical, optics down
Tilting range	Detector with adjustable hinge: ±20° horizontal; +4° to -8° vertical
Environmental class as per VdS	II
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Dimensions without adjustable hinge (W x H x D)	57 x 138 x 49 mm
Colour	greywhite, similar to RAL 9002
Type of protection DIN 40 050	IP 30

033401 **SCM 3000 BUS-1 with area optics**

VdS **Approval** **G196074 (IDT), class C; VSÖ W 031210/46 E**

033404 **SCM 3000 BUS-1 with longe range optics**

VdS **Approval** **G196086 (IDT), class C**

033407 **SCM 3000 BUS-1 with curtain optics**

VdS **Approval** **G196083 (IDT), class C**

Accessories

033390 Adjustable hinge for motion detectors



Technical Data

Range of adjustment	±20° horizontal; +4° to -8° vertical; according to VdS and EN grade 2
Colour	greywhite, similar to RAL 9002

For SCM- and Viewguard motion detectors.

Sale of remainder while stock last.

033390.17 Adjustable hinge for motion detectors

NEW



Technical Data

Range of adjustment	±20° horizontal; +4° to -8° vertical; according to VdS and EN grade 2
Colour	trafficwhite similar to RAL 9016

For SCM- and Viewguard motion detectors.

033391 Lock seals for motion detectors



For SCM- and Viewguard motion detectors.

20 pieces

Sale of remainder while stock last.

033391.17 Lock seals for motion detectors

NEW



For SCM- and Viewguard motion detectors.

20 pieces

033436 Viewguard spare parts wall-tamper

NEW

5 pieces

033588 Ball joint set for wall and corner mounting



Includes adjusting options on all sides for optimum adaptation to the monitored area.

Technical Data

Range of adjustment	±45° horizontal; ±20° vertical; non VdS and EN conform
Colour	greywhite, similar to RAL 9002

For SCM- and Viewguard motion detectors.

1 mounting base for wall mounting; 1 mounting base for corner mounting.

Sale of remainder while stock last.

033588.17 Ball joint set for wall and corner mounting

NEW



Includes adjusting options on all sides for optimum adaptation to the monitored area.

Technical Data

Range of adjustment	±45° horizontal; ±20° vertical; non VdS and EN conform
Colour	trafficwhite similar to RAL 9016

For SCM- and Viewguard motion detectors.

1 mounting base for wall mounting; 1 mounting base for corner mounting.

033434 Viewguard PIR set of mirrors Curtain optics



Technical Data

Curtain optics (vertical)	11 zones on 11 levels
Read angle	7,5° hor., 85° vert.
Range	17 / 21 / 25 / 30 m, programmable

For Item no. 033330.xx, 033430.xx, 033332.xx, 033432.xx.

3 pieces

033435 Viewguard PIR set of mirrors Long range optics



Technical Data

Long range optics	8 zones on 6 levels
Read angle	30° hor., 78° vert.
Range	29 / 35 / 42 / 50 m, programmable

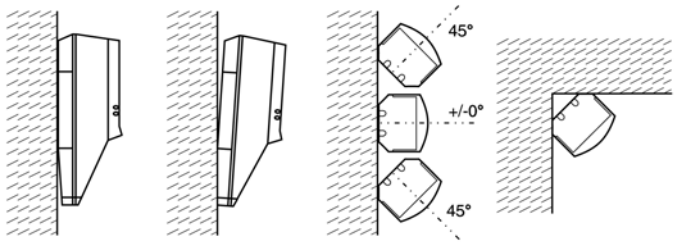
For Item no. 033330.xx, 033430.xx, 033332.xx, 033432.xx.

3 pieces

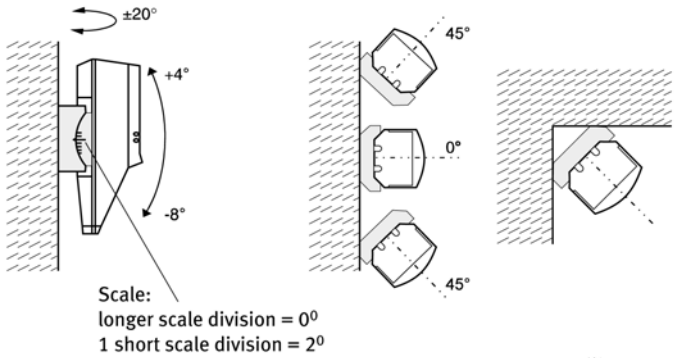
Mounting options

Installation options SCM 2000/3000

Installation without adjusting hinge



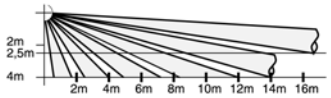
Installation with wall mounting bracket



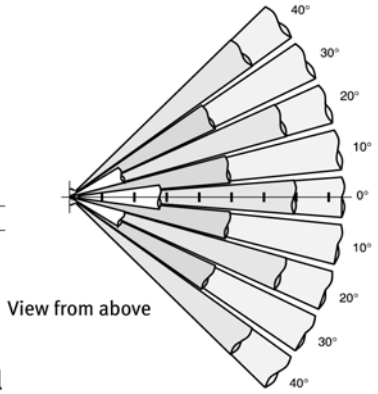
Beam characteristics SCM 2000/3000

Volumetric optics,
for monitoring rooms
of up to 12m x 12m
Lens splitting:
22 zones on 5 levels
Opening angle:
80° horizontal, 64° vertical
Range:
16m on 4 levels (9 / 11 / 13 / 16m)

Volumetric optics



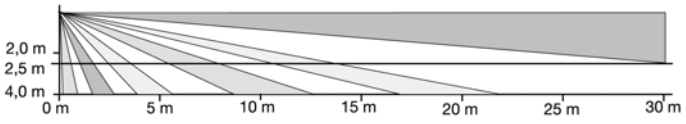
View from side



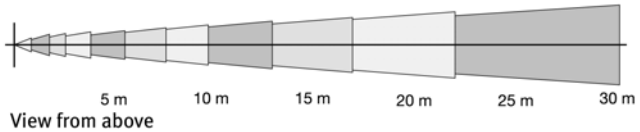
View from above

Curtain optics horizontal,
for monitoring
clamber areas
Lens splitting:
11 zones on 11 levels
opening angle:
7,5° horizontal, 85° vertical
Range:
30m on 4 levels (17 / 21 / 25 / 30m)

Curtain optics horizontal
Mounting 0⁰ tilt



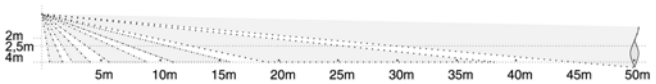
View from side



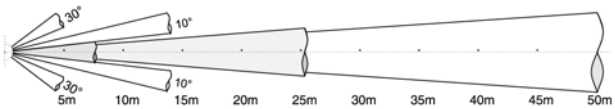
View from above

Long-distance optics,
for monitoring corridors
Lens splitting:
8 zones on 6 levels
Opening angle:
30° horizontal, 78° vertical
Range:
50m on 4 levels (29 / 35 / 42 / 50m)

Long-distance optics
Mounting 0⁰ tilt



View from side



View from above

033150 Dual/AM-ceiling detector DD666AM-D, 20 m



VdS **Approval G110511 (IDT), class B**

Ceiling detector with new dual technology. The unique mirror technology consists of a combination of Step & Gliding Focus mirror technique, which forms 18 continuous capture curtains, providing an optimal registration of an intruding person.

The 18 capture curtains enable a maximum of detection capability including a complete capturing of crawling under and a detection area of up to 20 m in diameter.

The 4D signal evaluation enables an efficient distinction between an intruding person and hoax signals. The DD600 series is characterized by the recognition of the diverseness of signals in security applications by using the 4D and Bi-Curtain signal evaluation, which is designed even for rough environment conditions. The combination of the mirror options with the 4D signal evaluation enables a better detection and higher stability as well as resistance against false reports.

The DD600 sensors contain a unique radar technology with a coverage control in 5.8 GHz freuqency range. The coverage control prevents false reports by the recognition of movement of persons outside the capture range of the detector.

The motion detectors can be flush mounted in the ceiling using the optional accessory 360FM. The mounting kit enables an optical attractive integration of the detector into the ceilling in a way the upper part only is visible .

Performance Features

- Dual AM/motion detector
- Automatic detection of all cover attempts
- Step & Gliding focus multi curtain mirror optics
- Range controlled radar in S-band
- Plug-in electronics
- Sealed optics
- 4D signal evaluation to prevent environmental alarms
- Adjustable capture area with mirror masks
- Additional Bi-curtain signal evaluation for contrarious environments
- No setting of mounting height required
- Complies with EN50131-2-2, grade 3
- Various European approvals

Example for mounting within ceiling



Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 to 15 V DC
Current consumption	12 mA (nom.)
Alarm relay	NC idle (potential free)
Tamper relay	NC with cover closed (potential free)
AM relay	80 mA with 30 V DC max.
Microwave frequency	5.8 GHz
Control inputs	Walk test & day-night
Alarm memory	Yes
Detection range	20 m
Detection area	Diameter 20+/-0.5 m, 12+/-0.5 m (adjustable)
Angle of vision	360° with 18 curtains or 180° with 9 curtains (adjustable)
Selection of detection curtains	Curtain labels
Crawling under protection	Yes
Installation height	2.5 m to 5 m
Tear off contact	existing
Type of protection DIN 40 050	IP 30
Operating temperature range	-10 °C bis +55 °C; 95% relative humidity
Dimensions (ØxD)	138 x 92 mm

Accessories:

033152 360FM Installation kit for ceiling mounting of dual motion detectors of the DD600 series

033151 Dual detector DD666-D, 20 m

VdS **Approval G110510 (IDT), class B**

As 033150, but **without** anti masking monitoring.

033152 360FM Mounting kit for ceiling mounting



Installation kit for ceiling mounting of dual motion detectors of the DD600 series.

1 x accessory bag with three Phillips screws M3 x 40
1 x mounting ring grey for f. m. ceiling mounting , outside diameter 175 mm with 3 insert nuts
1 x ring for on ceiling mounting s. m. white,with 3 boreholes

"Request-to-Exit" detectors

IS310WH "IS-310WH" access control motion detectors



The "Request-to-Exit" (RTE) detectors are available as standard version and as full version and are suitable for any application in the area of access control. The quick-to-install detectors are extremely flexible, offer plenty of cable routing space and contain built-in internal sealing caps, allowing precise target area detection.

Functionalities:

- Monitors an access control point for persons who want to leave the secured area.
- Monitors movements in an adjustable detection area.
- Generates a "Request-to-Exit" message, which is sent to the access control system / door locking system.
- Enables the automatic operation of a swing door.
- Already mandatory in many countries.

Performance Features

- Adjustable relay time (0.5 - 64 sec)
- Electronic signal evaluation and processing
- Bidirectional adjustment possible for additional security
- Adjustable sealing caps allow precise detection of the target area
- Mounting on wall or ceiling
- Colour white

Technical Data

Operating voltage	12 V to 24 V AC or DC
Quiescent current	35 mA
Range (depending on mounting height)	165 x 60 cm to 250 x 480 cm
signal processing	RTE and securing mode
compensating temperature	progressive Dual-Slope method
Recogizable walking speed	0.1 to 0.35 m/Sec.
Alarm relay	two C-shaped outputs
Display	Green (operation) LED
Installation height	210 to 460 cm
Operating temperature	-10 °C to + 50 °C
Dimensions (W x H x D)	17.8 x 5 x 5cm

IS320WH "IS-320WH" access control motion detector plus



For the description, see article 029730.

Performance Features

Performance features same as article 029730

Additional functions of the IS-320 WH/BL:

- Acoustic signalling
- Door contact input
- Input for reader / keypad/key switch
- Remote arming and acoustic inputs
- Door monitoring and fail-safe protection mode

Indoor light barrier



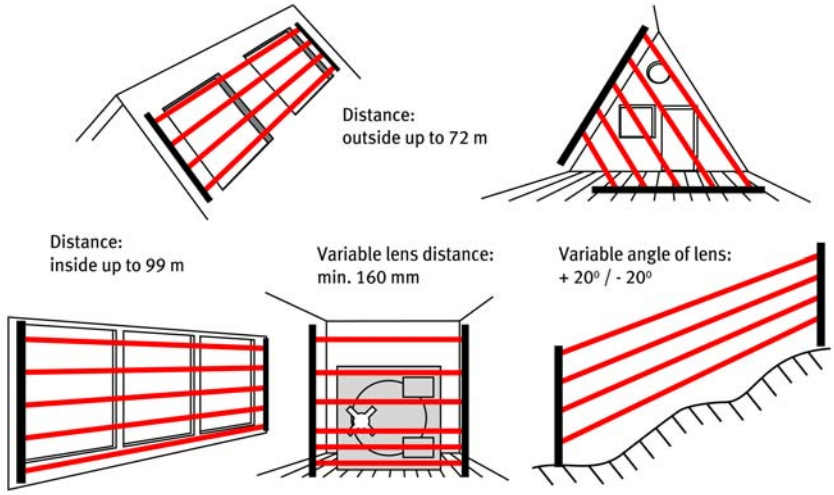
The transmitter transmits modulated infrared signals to the receiver. Interruptions of the IR beam are detected by the receiver and reported (alarm). Increased safety provided by synchronisation method and monitoring of the type of signal.

Performance Features

- Small size for discreet and space-saving installation
- One-man adjustment
- Insensitive to sunlight
- Detection of tamper attempts using external transmitters (including those of the same type of construction)
- Detection of faults
- First alarm memory
- Arming/disarming
- Walk test (functional test), reset after sabotage
- Undervoltage alarm

Technical Data

Rated operating voltage	12 V DC/AC
Operating voltage range	9 V to 35 V DC, 9 V to 25 V AC, 50 Hz; 9 V to 18 V DC for VdS application
Current consumption at 12 V DC	normally 20 mA, max. 25 mA
Range	99 m indoor application
Infrared ray	890 nm, pulse code modulation
Setting angle	approx. ±25° horizontal, approx. ±12° vertical
Read angle	receiver ca.6°, transmitter ca.6°
Response sensivity	adjustable 25 to 500 ms
Relay contact rating	wearless, max. 60 V / 0.2 A DC/AC
Inputs	inputs currents 100 µA, capacity 10 nF, max. 35 V DC or 25 V AC/ 50 Hz
Output	max. 50 mA/ 12 V DC, short-circuit protected
Type of protection DIN 40 050	IP 54
Environmental class as per VdS	IV
Temperature range	+10 °C to +75 °C
Weight	ca. 0.5 kg (1 beam)
Colour	anodised, matt black



Application example

033080 **IRS 509 light barrier inside, 22 cm high, 1 beam**

VdS **Approval** **G 100029 (IDT), class C; VSÖ W 070427/42**

Technical Data

Dimensions (W x H x D)	40 x 220 x 40 mm

033081 **IRS 509 light barrier inside, 100 cm high, 3 beams**

VdS **Approval** **G 100029 (IDT), class C; VSÖ W 070427/43**

Technical Data

Dimensions (W x H x D)	40 x 1000 x 40 mm

033082 **IRS 509 light barrier inside, 150 cm high, 5 beams**

VdS **Approval** **G 100029 (IDT), class C; VSÖ W 080312/26**

Technical Data

Dimensions (W x H x D)	40 x 1500 x 40 mm

033083 **IRS 509 light barrier inside, 200 cm high, 8 beams**

VdS **Approval** **G 100029 (IDT), class C; VSÖ W 070427/44**

Technical Data

Dimensions (W x H x D)	40 x 2000 x 40 mm

Outdoor light barrier



The transmitter transmits modulated infrared signals to the receiver. Interruptions of the IR beam are detected by the receiver and reported (alarm). Increased safety provided by synchronisation method and monitoring of the type of signal.

Technical Data

Rated operating voltage	12 V DC/AC
Current consumption at 12 V DC	approx. 125 / 250 mA (piece / pair)
Range	72 m outdoor application
Temperature range	-30 °C to +75 °C with built-in heating

Performance Features

- Small size for discreet and space-saving installation
- One-man adjustment
- Insensitive to sunlight
- Detection of tamper attempts using external transmitters (including those of the same type of construction)
- Detection of faults
- First alarm memory
- Adjustable alarm response time of outdoor system
- Arming/disarming
- Walk test (functional test), reset after sabotage
- Undervoltage alarm
- Disqualification in the case of heavy rain, snowfall or fog (adjustable time constant 3 to 60 sec.)
- Including integrated heating

033084 **IRS 509 O light barrier outside, 22 cm high, 1 beam**

Technical Data

Dimensions (W x H x D)	40 x 220 x 40 mm

033085 **IRS 509 O light barrier outside, 100 cm high, 3 beams**

Technical Data

Dimensions (W x H x D)	40 x 1000 x 40 mm

033086 **IRS 509 O light barrier outside, 150 cm high, 4 beams**

Technical Data

Dimensions (W x H x D)	40 x 1500 x 40 mm

033087 **IRS 509 O light barrier outside, 200 cm high, 6 beams**

Technical Data

Dimensions (W x H x D)	40 x 2000 x 40 mm

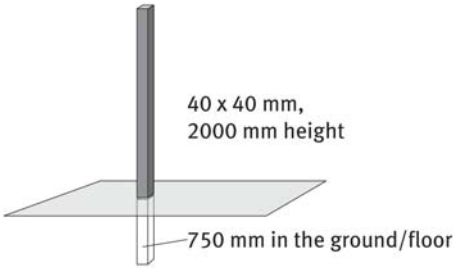
Accessories

033090 **Adjusting device including LED and adapter cable**

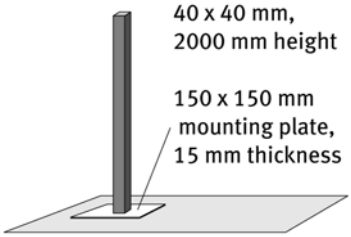


Suitable for indoors and outdoors.

033095 **Square profiled mast, black, for setting in concrete**



033096 **Square profiled mast, black, including plate**



Notes



Alarm contacts

- IDENTLOC
- Magnetic contacts
- Mechanical contacts
- Glass breakage detector
- Seismic detector
- Special detector

Performance Features

- Inductive transmission system = no cable link between the fixed and the moving part
- Sensors as surface mounting version or for concealed mounting (slimline)
- For use in multiple locking
- Tamper-proof
- Low mounting outlay

Typical applications:

- Monitoring of opening of windows and doors
- Lock monitoring of window and door handles
- Monitoring for glass breakage of windows and doors by passive glass breakage sensors or alarm glass adapters
- Presence control of objects (e.g. valuable works of art)

The IDENTLOC system is used for peripheral monitoring of buildings and/or presence control of objects.

The transmission of energy and data between the fixed part (transmission unit) and the moving part (sensor) takes place by induction. Each sensor contains an individual code carrier. The evaluating unit will memorise these codes during startup (teach-in mode) in a non-volatile memory.

In standard operation, the evaluating unit will permanently check these codes for presence and correctness. If a code is missing or wrong, a message is sent to the control panel.

In combination with the transmitter unit, each code carrier from the IDENT-KEY product series can be used, resulting in versatile applications.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V bis 15 V DC
Type of protection DIN 40 050	Evaluating unit IP 40; Sensors IP 67
Environmental class as per VdS	Evaluating unit II; Sensors III
Operating temperature range	Evaluating unit -5 °C to 45 °C; Sensors -25 °C to +60 °C
Storage temperature range	-25 °C bis +70 °C

Evaluating unit

032210 **IDENTLOC evaluating unit, conventional**



VdS **Approval** **G199014 (IDT), Class C; VSÖ W 070427/25 E**

Conventional connection technology.

Technical Data

Current consumption at 12 V DC	Evaluating unit < 9 mA; 5.5 mA for each sensor; 3 mA for each LED
Contact load	relay contact (1 x changeover) 15 V/0,2 A; 15 V/0,2 A tamper contact (cover contact)
Sensor connections	4 IDENTLOC transmission unit; 1 EOL detector zone
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Performance Features

- Transmission and control function:
  - Disarmed input
  - Reset function: Reset input
  - First alarm detection available
  - Alarm: potential-free relay contact
  - Tamper: direct cover contact

In standard operation, only the Total LED must be lit (after being triggered). All cables may be shortened but not lengthened. The type of protection only applies if the moisture protection of the sensors was carried out correctly.

Sale of remainder while stock last.

032210.17 **IDENTLOC evaluating unit, conventional**

NEW



VdS **Approval** **G199014 (IDT), Class C; VSÖ W 070427/25 E**

Conventional connection technology.

Technical Data

Colour	trafficwhite, similar to RAL 9016

032211.10 IDENTLOC evaluating unit, BUS-2 / BUS-1



VdS **Approval G199018 (IDT), Class C**

BUS-1 connection technology can be selected via DIP switch.
On BUS-2 operation as IDENTLOC or 5-input module.
The expanded teach-in mode detects wrong installations of the sensor as early as during mounting, even without intrusion detection control panel.

Technical Data

Current consumption at 12 V DC	Evaluating unit <12; <3 mA for each sensor; <1.3 mA for each LED
Contact load	relay contact (1 x change-over) 15 V/0,2 A; 15 V/0,2 A tamper contact (cover contact)
Sensor connections	4 IDENTLOC-transmission unit; 1 EOL detector zone
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite (similar to RAL 9002)

Performance Features

- Operation on BUS-2 as IDENTLOC
  - Glass breakage sensor-function can be disactivated
  - Run “Teaching mode” from control panel
  - Firmware update via BUS-2
- Operation on BUS-2 as 5-input module (compatibility mode)
- Operation on BUS-1 as “Logic detector” (1-Address mode or 5-Address mode)
- Transmission and control functions:
  - Disarmed
  - Reset function
  - Alarm
  - Tamper
- Expanded teach-in and commissioning mode

In standard operation, only the Total LED must be lit (after being triggered). All cables may be shortened but not lengthened. The type of protection only applies if the moisture protection of the sensors was carried out correctly.

Sale of remainder while stock last.

Accessories:

032215 /.17 IDENTLOC flushmount installation kit

032211.17 IDENTLOC evaluating unit, BUS-2 / BUS-1

NEW



VdS **Approval G199018 (IDT), Class C**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Transmission unit

032220 IDENTLOC transmission unit



VdS **Approval** **in connection with IDENTLOC sensors**

Transmission unit, mounted to the fixed part. (Required for each IDENTLOC sensor)

Technical Data

Transmission range	transmission unit - sensor: min. 10 mm
Cable length	6 m
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	greywhite, similar to RAL 9002

The range stated above refers to wooden or plastic mounting plates. When using a metal plate, the transmission unit and the sensor have to be distantly mounted. Installation in aluminium is not possible.

Sale of remainder while stock last.

Accessories:

Fits:

032221.10 /.17	IDENTLOC opening sensor
032222.10 /.17	IDENTLOC opening sensor, including cable
032230.10 /.17	IDENTLOC glass breakage sensor
032223 /.17	IDENTLOC Alarmglassensor

032220.17 IDENTLOC transmission unit

NEW



VdS **Approval** **in connection with IDENTLOC sensors**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Sensor

032221.10 IDENTLOC opening sensor



VdS **Approval** **G199015 (IDT), Class C; VSÖ W 070427/23 E**

Presence or opening monitoring

Technical Data

Transmission range	transmission unit - sensor: min. 10 mm
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032221.17 IDENTLOC opening sensor

NEW



VdS **Approval** **G199015 (IDT), Class C; VSÖ W 070427/23 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

032222.10 IDENTLOC opening sensor, including cable



VdS **Approval** **G199015 (IDT), Class C; VSÖ W 070427/23 E**

Opening sensor with window handle lock monitoring

Technical Data

Transmission range	transmission unit - sensor: min. 10 mm
Cable length	2.5 m
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032222.17 IDENTLOC opening sensor, including cable

NEW



VdS **Approval** **G199015 (IDT), Class C; VSÖ W 070427/23 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

032230.10 IDENTLOC glass breakage sensor



VdS **Approval** **G199509 (IDT), Class B**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with glass insert.

Technical Data

Transmission range	transmission unit - sensor: min. 10 mm
Detection radius	2 m
Cable length	25 cm
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032230.17 IDENTLOC glass breakage sensor

NEW



VdS **Approval** **G199509 (IDT), Class B**

Technical Data

Colour	trafficwhite, similar to RAL 9016

032223 IDENTLOC Alarm glass sensor with socket



VdS **Approval** **G199016 (IDT), Class C**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with alarm glass insert (wire insert or alarm spider).

Technical Data

Transmission range	transmission unit - sensor: min. 10 mm
Cable length	25 cm
Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032223.17 IDENTLOC Alarm glass sensor with 4-pole socket

NEW



VdS **Approval** **G199016 (IDT), Class C**

Technical Data

Colour	trafficwhite, similar to RAL 9016

IDENTLOC slimline sensors

Performance Features

- For use with almost all locks with multiple locking
- No replacement of original fittings necessary
- The sensor can already be mounted at the window or door manufacturer's or also later on without any problems.

The compact and flat style of the slimline family allows a concealed mounting of the sensors in the gap between frame and window leaf or door leaf.

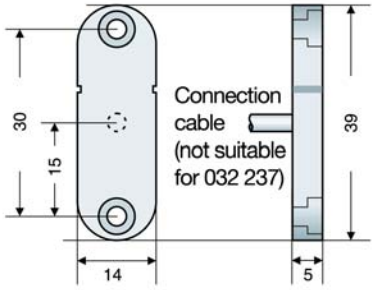
(If the gap is not wide enough, transmitter and sensor can be embedded).For the opening and lock monitoring of windows or doors with multiple locking and concealed push rod, a special locking sensor is available. The sensor is mounted to the push rod of the lock. A transmission between transmitter and sensor is only possible when the window or door is closed and the handle is locked.

Technical Data

Type of protection DIN 40 050	IP 67
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C

Operation in metal profiles (e.g. aluminium frame) is possible.

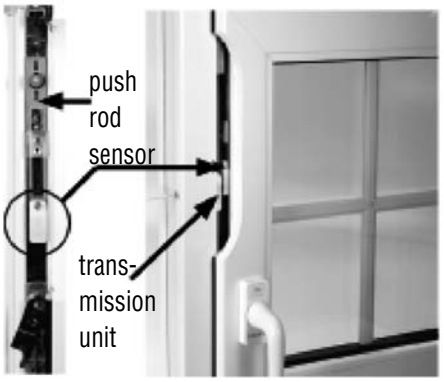
slimline sensor series:
Transmission unit and sensors



Mounting example

Installation example:





Mounting example

032235 IDENTLOC slimline transmission unit



VdS **Approval** **same as the corresponding sensor**

Transmission unit, mounted to the fixed part.
(Required for each Slimline sensor counter unit).

Technical Data

Transmission range	2 to max. 10 mm
Cable length	6 m
Dimensions (W x H x D)	39 x 14 x 5 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032235.17 IDENTLOC slimline transmission unit

NEW



VdS **Approval** **same as the corresponding sensor**

Transmission unit, mounted to the fixed part.
(Required for each Slimline sensor counter unit).

Technical Data

Dimensions (W x H x D)	39 x 14 x 5 mm
Colour	trafficwhite, similar to RAL 9016

032236 IDENTLOC slimline locking sensor



VdS **Approval** **G101073 (IDT), Class C; VSÖ W 070427/22 E**

Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

Technical Data

Transmission range	2 to 5 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032236.17 IDENTLOC slimline locking sensor

NEW



VdS **Approval** **G101073 (IDT), Class C; VSÖ W 070427/22 E**

Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

Technical Data

Transmission range	2 to 5 mm
Colour	trafficwhite, similar to RAL 9016

032237 IDENTLOC Slimline opening sensor



VdS **Approval** **G101074 (IDT), Class C; VSÖ W 070427/20 E**

Presence or opening monitoring. Opening and lock monitoring of windows and doors with multiple locks and exposed push rod.

Technical Data

Transmission range	2 to max. 10 mm
Cable length	6 m
Dimensions (L x W x H)	39 x 14 x 5 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032237.17 IDENTLOC Slimline opening sensor

NEW



VdS **Approval** **G101074 (IDT), Class C; VSÖ W 070427/20 E**

Technical Data

Dimensions (L x W x H)	39 x 14 x 5 mm
Colour	trafficwhite, similar to RAL 9016

032238 IDENTLOC Slimline glass breakage sensor



VdS **Approval** **G101519 (IDT), Class B; VSÖ GS-H 070427/19 E**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with glass insert.

Technical Data

Detection radius	2 m
Transmission range	2 to 5 mm
Cable length	25 cm
Dimensions (W x H x D)	39 x 14 x 5 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032238.17 IDENTLOC Slimline glass breakage sensor

NEW



VdS **Approval** **G101519 (IDT), Class B; VSÖ GS-H 070427/19 E**

Technical Data

Dimensions (W x H x D)	39 x 14 x 5 mm
Colour	trafficwhite, similar to RAL 9016

032242 IDENTLOC alarm glass sensor, slimline with socket



VdS **Approval** **G101075 (IDT), Class C**

Opening monitoring and monitoring for glass breakage. Suitable for windows or doors with alarm glass insert (wire insert or alarm spider).

Technical Data

Transmission range	2 to max. 10 mm
Cable length	25 cm
Dimensions (L x W x H)	61 x 9 x 9 mm
Colour	greywhite, similar to RAL 9002

Cable is not soldered and sensor not casted.

Sale of remainder while stock last.

032242.17 IDENTLOC alarm glass sensor, slimline with socket

NEW



VdS **Approval** **G101075 (IDT), Class C**

Technical Data

Dimensions (W x H x D)	61 x 9 x 9 mm
Colour	trafficwhite, similar to RAL 9016

Accessories

032215 IDENTLOC flush mounting kit

For IDENTLOC evaluating units, consisting of flush mounted housing and cover. The flush mounting kit is an easy way of flush mounting the IDENTLOC evaluating units.

"Total display" LED is visible from the outside through a small bore in the cover.

Technical Data

Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032215.17 IDENTLOC flush mounting kit

NEW



For IDENTLOC evaluating units, consisting of flush mounted housing and cover. The flush mounting kit is an easy way of flush mounting the IDENTLOC evaluating units.

"Total display" LED is visible from the outside through a small bore in the cover.

Technical Data

Colour	trafficwhite, similar to RAL 9016

032232 IDENTLOC cable for window handle lock monitoring



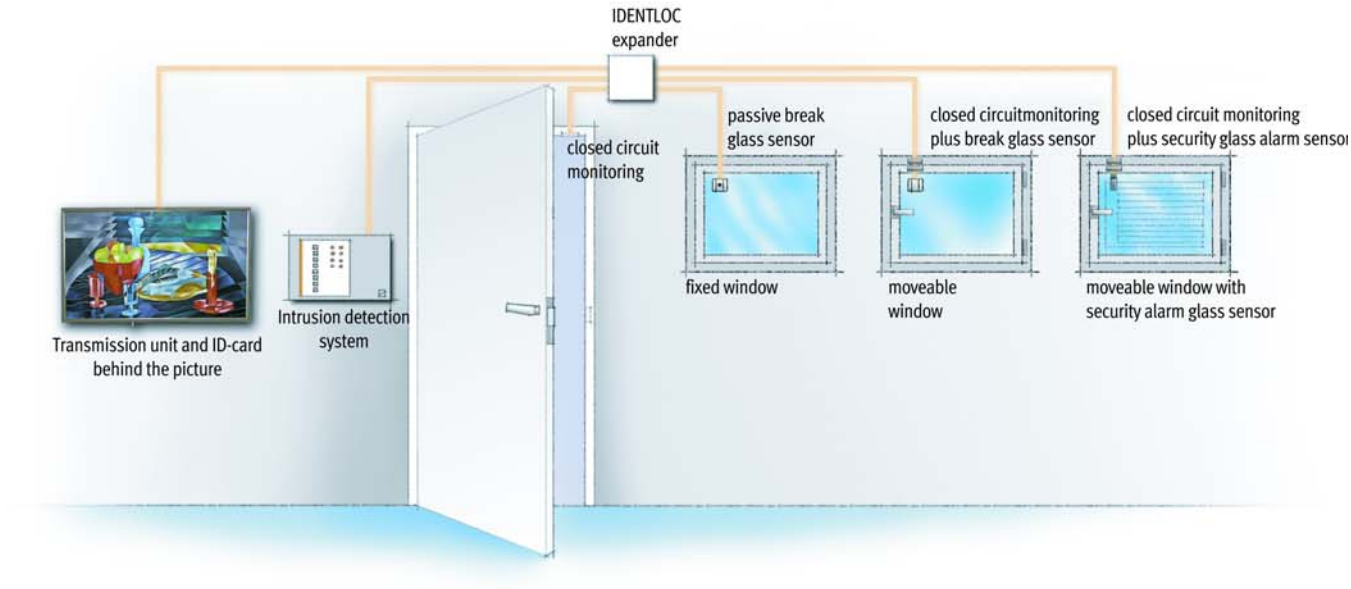
For Art. Nos. 032230.10 /.17

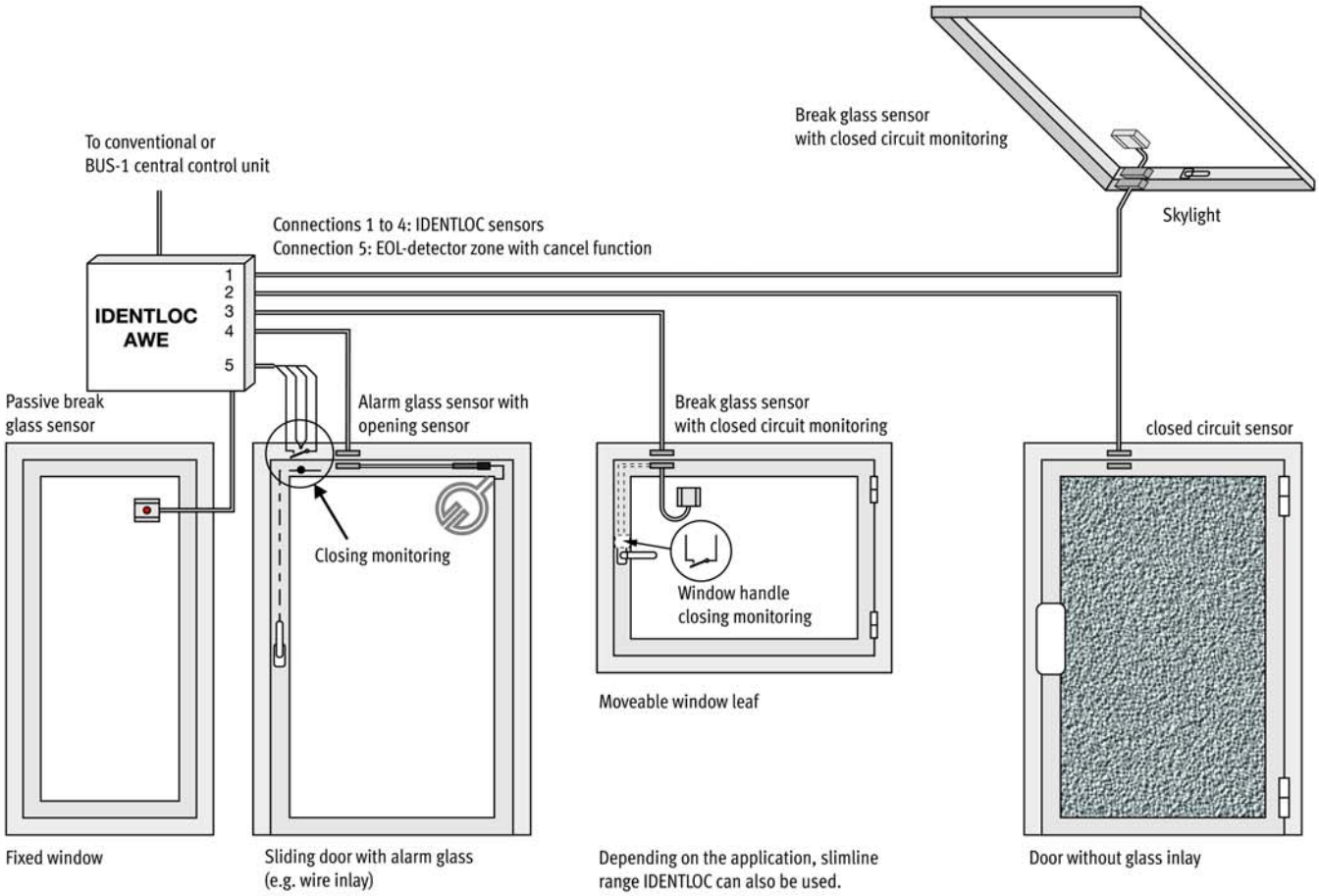
Connecting this cable to the transmission unit allows you to monitor the locks of suitably equipped window/door handles or the like.

Accessories:

032267	Glass/metal gluing set Loctite 317, glue 24 ml, activator 150 ml
032268	Gluing gauge for adjusting and gluing glass breakage sensors
032256.01	Sensor tester for passive glass breakage sensors
032266	Contact spray for improving the acoustic coupling between sensor tester and glass pane.
030810.16 /.17	Surface-mounted base for height adjustment, 12 per packaging unit in different heights for IDENTLOC sensors
030110.16 /.17	Surface-mounted base for slimline sensors, 12 per packaging unit

Planning examples





The magnetic contact consists of the Reed contact and the permanent magnet. In turn, the reed contact consists of the plastic housing with the built-in reed switch and the connecting cable. The reed switch itself is embedded in a dust- and water-proof glass tube and is actuated from outside by the permanent magnet resp. its magnetic field.

Configuration types:

Universal reed contact: In a plastic housing, suitable for flush mounting in wooden windows and wooden doors. Includes surface mounted housing (option) and spacer plates (option), also suitable for mounting on metal doors. Switching distance approx. 10 mm.

Recessed reed contact: In a plastic housing, suitable for flush mounting in wooden windows and wooden doors. Switching distance approx. 10 mm.

Flat reed contact: In a plastic housing, suitable for surface mounting on windows and doors made of aluminium or wooden profile. Switching distance approx. 10 mm.

Block type reed contact: In a plastic housing, heavy-duty version suitable for surface mounting in doors, sliding doors and windows for extreme applications of large switching distance. If suitably supported by a surface-mounted base, also for use on metal doors. Mounting in wooden doors and wooden windows. Switching distance approx. 20 mm.

Round reed contact: In a plastic housing, suitable for flush mounting in wooden windows and wooden doors. Includes surface mounted housing (option) and spacer plates (option) or steel mounting kit (option), also suitable for mounting on metal doors. Switching distance approx. 5 mm.

Connection types:

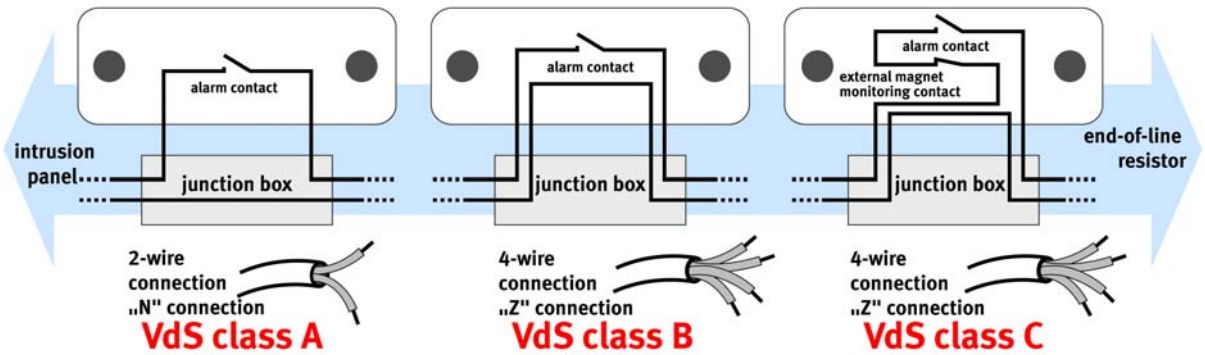
Reed contact “N” without bridging protection with 2-wire connection. Contacts can be connected to any closed-circuit current detector group.

Reed contact “Z” with bridging protection with 4-wire connection. There are 4 connecting wires of the same colour that cannot be distinguished and must be connected in Z-wiring (according to VdS) in a closed-circuit current detector group with terminating resistance in a differential circuit. The Z-wiring signals the bridging of the wires. The marking “Z” is shown by the blue dot mark.

All reed contact connecting cables are suitable for the IDC method of termination.

Technical Data

Contact rating	min 1,5 V DC/1,5 mA; max. 30 V DC/100 mA
Environmental class as per VdS	III
Dimensions (W x H x D)	Recessed reed contact Cl. A/B 60 x 9 x 9 mm; Recessed reed contact Cl. C/ Flat reed contact 60 x 11 x 9 mm; Block type reed contact 65 x 13 x 14 mm
Dimensions (ØxD)	Round reed contact with flange 10 x 30 mm; Round reed contact without flange 8,3 x 30 mm; Universal reed contact 8 x 25 mm



“N” and “Z” wiring

VdS Approval Class A

030000.16 Recessed reed contact “N”



VdS **Approval** **G193703 (IDT), Class A; VSÖ P 070427/57 E**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Magnet.

Sale of remainder while stock last.

030000.17 Recessed reed contact “N”

NEW



VdS **Approval** **G193703 (IDT), Class A; VSÖ P 070427/57 E**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016

Magnet.

030001.16 Flat reed contact “N”, white, 6 m



VdS **Approval** **G193704 (IDT), Class A; VSÖ P 070427/56 E**

With cross hole attachment.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030001.17 Flat reed contact “N”, white, 6 m

NEW

With cross hole attachment.



Technical Data

Connection	2-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

030002.16 Block type reed contact “N”, white, 6 m



VdS **Approval** **G193705 (IDT), Class A; VSÖ P 070427/55 E**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030002.17 Block type reed contact “N”, white, 6 m

NEW



VdS **Approval** **G193705 (IDT), Class A; VSÖ P 070427/55 E**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

030010.16 Round reed contact “N”, white, 6 m



VdS **Approval** **G193706 (IDT), Class A**

With flange.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030010.17 Round reed contact “N”, white, 6 m

NEW



VdS **Approval** **G193706 (IDT), Class A**

With flange.

Technical Data

Connection	2-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

082001.16 Universal reed contact “N”, white, 6 m



VdS **Approval** **G196719 (IDT), Class A**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

082001.17 Universal reed contact “N”, white, 6 m

NEW



VdS **Approval** **G196719 (IDT), Class A**

Technical Data

Connection	2-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

VdS Approval Class B

030200.16 Recessed reed contact “Z”, white, 6 m



VdS **Approval** **G191551 (IDT), Class B; VSÖ G 031210/65 E**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030200.17 Recessed reed contact “Z”, white, 6 m

NEW



VdS **Approval** **G191551 (IDT), Class B; VSÖ G 031210/65 E**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

030241.16 Recessed reed contact “Z”, brown, 6 m



VdS **Approval** **G191551 (IDT), Class B; VSÖ G 031210/65 E**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030201.16 Flat reed contact “Z”, white, 6m



VdS **Approval** **G191552 (IDT), Class B; VSÖ G 031210/66 E**

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030201.17 Flat reed contact “Z”, white, 6m

NEW



VdS **Approval** **G191552 (IDT), Class B; VSÖ G 031210/66 E**

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

030243.16 Flat reed contact “Z”, brown, 6 m



VdS **Approval** **G191552 (IDT), Class B; VSÖ G 031210/66 E**

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030202.16 Block type reed contact “Z”, white, 6 m



VdS **Approval** **G191554 (IDT), Class B; VSÖ G 031210/67 E**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030202.17 Block type reed contact “Z”, white, 6 m

NEW



VdS **Approval** **G191554 (IDT), Class B; VSÖ G 031210/67 E**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

030245.16 Block type reed contact “Z”, brown, 6 m



VdS **Approval** **G191554 (IDT), Class B; VSÖ G 031210/67 E**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030211.16 Round reed contact “Z”, white, 6 m



VdS **Approval** **G 191553 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Magnet.

Sale of remainder while stock last.

030211.17 Round reed contact “Z”, white, 6 m

NEW



VdS **Approval** **G 191553 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite similar to RAL 9016

Magnet.

030249.16 Round reed contact “Z”, brown, 6 m



VdS **Approval** **G 191553 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Magnet.

082003.16 Universal round reed contact “Z”, white, 6 m



VdS **Approval** **G 196637 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

For surface mounting 082402.16 is necessary.

Magnet.

Sale of remainder while stock last.

082003.17 Universal round reed contact “Z”, white, 6 m

NEW



VdS **Approval** **G 196637 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016

For surface mounting 082402.17 is necessary.

Magnet.

082004.17 Universal reed contact set "Z", white 4 m

NEW



VdS **Approval** **G196637 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016

082003.17 universal reed contact, 2 installation housings, 2 spacer plates.

082013.16 Universal reed contact "Z", brown, 6 m



VdS **Approval** **G 196637 (IDT), Class B**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

For surface mounting 082412 is necessary.

Magnet.

030210.16 Round reed contact "Z", white, 6 m



VdS **Approval** **G191579 (IDT), Class B**

With flange.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030210.17 Round reed contact "Z", white, 6 m

NEW



VdS **Approval** **G191579 (IDT), Class B**

With flange.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016

030247.16 Round reed contact “Z”, brown, 6 m



VdS **Approval** **G191579 (IDT), Class B**

With flange.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

030100.16 Universal reed contact slimline “Z”, white, 6 m



VdS **Approval** **G101528 (IDT), Class B; VSÖ GS-H 070427/54 E**

Technical Data

Transmission range	max. 10 mm
Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030100.17 Universal reed contact slimline “Z”, white, 6 m

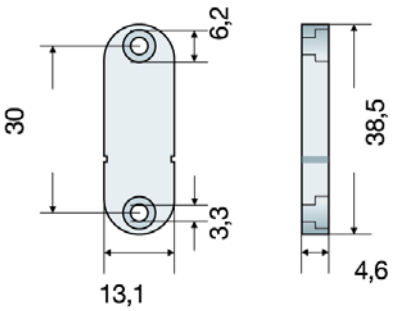
NEW



VdS **Approval** **G101528 (IDT), Class B; VSÖ GS-H 070427/54 E**

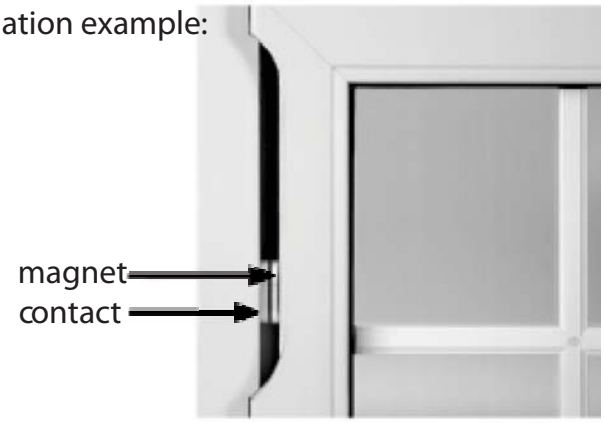
Technical Data

Transmission range	max. 10 mm
Connection	4-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016



Dimensions (mm)

Installation example:



032245 Locking sensor with magnetic contact



VdS **Approval** **G104043 (IDT), Class C (lock monitoring)**
G104509 (IDT), Class B (opening monitoring)

Opening and lock monitoring of windows and doors with multiple locks and concealed push rod.

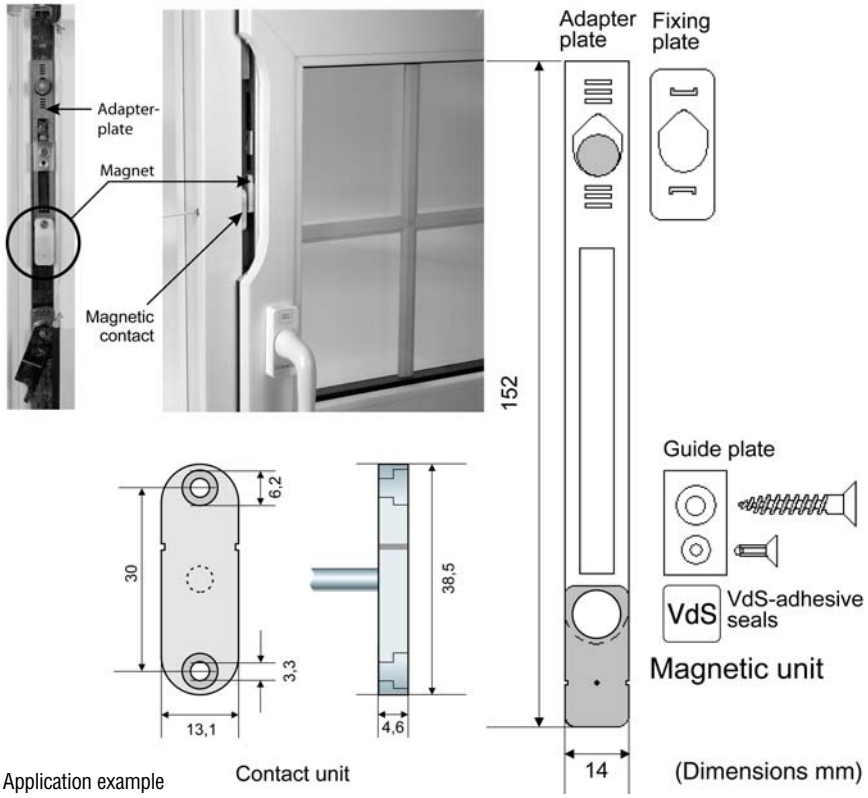
If both sensor elements are opposite one another, the field lines of the magnetic unit flow through the contact unit and the Reed contact is closed. This is only the case, as long as the window/door is closed and locked.

If the magnetic unit of the locking bolt is removed from the contact unit via the adapter plate, the contact opens. Connection is made via the 6 m long cable in Z-wiring either directly at a panel or at an evaluation unit (depending on the application).

Technical Data

Transmission range	max. 10 mm
Lateral offset	max. 3 mm
Type of protection	IP 67 (as per DIN 40050 / EN60529)
Environmental class as per VdS	III
Operating temperature range	-25 °C to +60 °C
Connecting cable	4 x 0.14 mm², length 6m (moulded)
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.



Accessories:

030110.16 Surface mounted base for slimline sensors

032245.17 Locking sensor with magnetic contact

NEW



VdS **Approval** **G104043 (IDT), Class C (lock monitoring)**
G104509 (IDT), Class B (opening monitoring)

Technical Data

Colour	trafficwhite, similar to RAL 9016

030110.16 Surface mounted base for slimline sensors

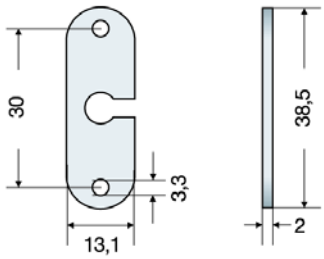
Technical Data

Colour	purewhite, similar to RAL 9010

12 pieces

Sale of remainder while stock last.

Dimensions (mm)



030110.17 Surface mounted base for slimline sensors

NEW

Technical Data

Colour	trafficwhite, similar to RAL 9016

12 pieces

VdS Approval Class C

030270.16 Recessed reed contact “Z”, white, 6 m



VdS **Approval** **G191013 (IDT), Class C; VSÖ W 070427/52**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	purewhite, similar to RAL 9010

Magnet.

Sale of remainder while stock last.

030270.17 Recessed reed contact “Z”, white, 6 m

NEW



VdS **Approval** **G191013 (IDT), Class C; VSÖ W 070427/52**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016

Magnet.

030271.16 Recessed reed contact “Z”, brown, 6 m



VdS **Approval** **G191013 (IDT), Class C; VSÖ W 070427/52**

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Magnet.

030260.17 Flat reed contact “Z”, white, 6 m

NEW



VdS **Approval** **G191014 (IDT), Class C; VSÖ W 070427/53**

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	trafficwhite, similar to RAL 9016

Magnet.

030261.16 Flat reed contact “Z”, brown, 6 m



VdS **Approval** **G191014 (IDT), Class C; VSÖ W 070427/53**

With cross hole attachment.

Technical Data

Connection	4-wire
Cable length	6 m
Colour	brown, similar to RAL 8017

Magnet.

030295 Round reed contact with flange



VdS Approval G103003 (IDT), Class C; VSÖ W 070427/51

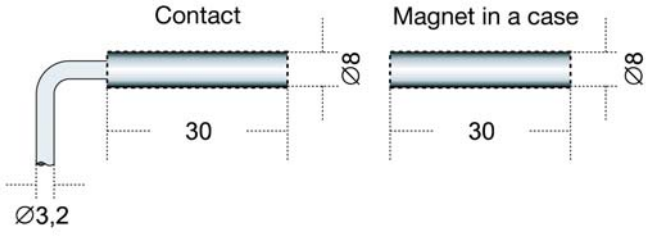
This tamper-proof round reed contact is suitable for the opening monitoring of windows and doors. The contact and the magnet are built into the frame and leaf face-to-face.

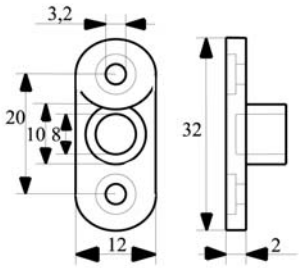
Technical Data

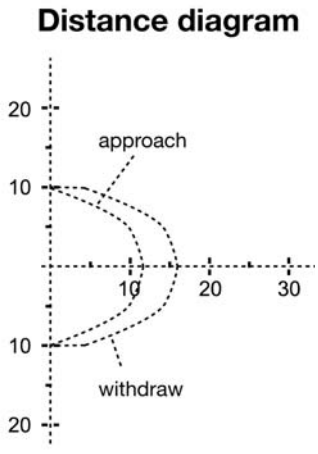
Operating voltage	max. 40 V
Switching voltage	max. 100 V DC
Electric strength	1 sec. 150 V DC
Switching current	max. 0,5 A
Contact rating	max. 10 W
Type of protection DIN 40 050	IP 68
Environmental class as per VdS	III
Operating temperature range	-25 °C to +70 °C
Contact	closer, 1-polig
Housing material	PS, ABS, PA 30 % Glf.
Connecting cable	LIYY 4 x 0,14 mm, ZGL (suitable for ICD method of termination)
Cable length	6 m
Cable diameter	3,2 mm
Dimensions (W x H x D)	8 x 30 mm (Contact); 8 x 30 mm, DYM (Magnet Housing)
Colour	white

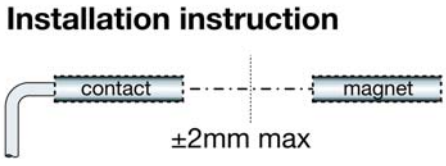
Metal mounting requires 030296 or 030297.

1 x Reed contact with moulded connecting cable; 2 x installation flange, white; 2 x installation flange, brown; 4 x fixing screws 2.9 x 9.5 / V2A, DIN 7981.









Only face-to-face installation.
Side installation offset: ±2mm max

Dimensions (mm)

Accessories

030800.16 Installation support for recessed reed contacts Class A/B



Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	12 mm
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030800.17 Installation support for recessed reed contacts Class A/B

NEW



Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	12 mm
Colour	trafficwhite, similar to RAL 9016

030812 Installation support for recessed reed contacts Class A/B



Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	12 mm
Colour	brown, similar to RAL 8017

030802.16 Installation support for recessed reed contacts, Class C



Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	14 mm
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030802.17 Installation support for recessed reed contacts, Class C

NEW



Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	14 mm
Colour	trafficwhite, similar to RAL 9016

030803 Installation support for recessed reed contacts, Class C



Suitable as mounting aid for aluminium profiles for embedding or height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Installation depth	14 mm
Colour	brown, similar to RAL 8017

030810.16 Surface-mounted base for flat reed contacts



Suitable as mounting aid for height compensation.

Technical Data

Dimensions (L x W x H)	60 x 9 x 5,2 mm
Colour	purewhite, similar to RAL 9010

4 pieces of the same height each (5,2 mm, 3,2 mm, 2,2 mm)

Sale of remainder while stock last.

030810.17 Surface-mounted base for flat reed contacts

NEW



Suitable as mounting aid for height compensation.

Technical Data

Dimensions (L x W x H)	60 x 9 x 5,2 mm
Colour	trafficwhite, similar to RAL 9016

4 pieces of the same height each (5,2 mm, 3,2 mm, 2,2 mm)

030813 Surface-mounted base for flat reed contacts



Suitable as mounting aid for height compensation.

Technical Data

Colour	brown, similar to RAL 8017
Dimensions (L x W x H)	60 x 9 x 5,2 mm

12 pieces of different heights

030811.16 Surface-mounted base for block type reed contacts



Suitable as mounting aid for height compensation.

Technical Data

Colour	purewhite, similar to RAL 9010

6 pieces of the same height (4 mm)

Sale of remainder while stock last.

030811.17 Surface-mounted base for block type reed contacts

NEW



Suitable as mounting aid for height compensation.

Technical Data

Colour	trafficwhite, similar to RAL 9016

6 pieces of the same height (4 mm)

030814 Surface-mounted base for block type reed contacts



Suitable as mounting aid for height compensation.

Technical Data

Colour	brown, similar to RAL 8017

6 pieces of the same height (4 mm)

030801.16 Installation support for round reed contacts with flange



Suitable as mounting aid for hollow profiles for height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

030801.17 Installation support for round reed contacts with flange

NEW



Suitable as mounting aid for hollow profiles for height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Colour	trafficwhite, similar to RAL 9016

030815 Installation support for round reed contacts with flange



Suitable as mounting aid for hollow profiles for height compensation.

The support can be mounted to any desired height by means of spacer tubes.

Technical Data

Colour	brown, similar to RAL 8017

082402.16 Surface mounted housing for universal reed contacts



Technical Data

Colour	purewhite, similar to RAL 9010

10 pieces

Sale of remainder while stock last.

082402.17 Surface mounted housing for universal reed contacts

NEW



Technical Data

Colour	trafficwhite, similar to RAL 9016

10 pieces

082412 Surface mounted housing for universal reed contacts



Technical Data

Colour	brown, similar to RAL 8017

10 pieces

082403.16 Spacer plates for surface mounted housing



Technical Data

Colour	purewhite, similar to RAL 9010

10 pieces

Sale of remainder while stock last.

082403.17 Spacer plates for surface mounted housing

NEW



Technical Data

Colour	trafficwhite, similar to RAL 9016

10 pieces

082413 Spacer plates for surface mounted housing



Technical Data

Colour	brown, similar to RAL 8017

10 pieces

030296 Steel mounting kit, white



The steel mounting kit is used as mounting component for mounting round reed contacts in ferromagnetic materials, such as steel.

The kit consists of one mounting flange each for the round reed contact and for the magnet.

The magnet has already been glued into the housing.

Technical Data

Colour	trafficwhite, similar to RAL 9016

030297 Steel mounting kit, brown



The steel mounting kit is used as mounting component for mounting round reed contacts in ferromagnetic materials, such as steel.

The kit consists of one mounting flange each for the round reed contact and for the magnet.

The magnet has already been glued into the housing.

Technical Data

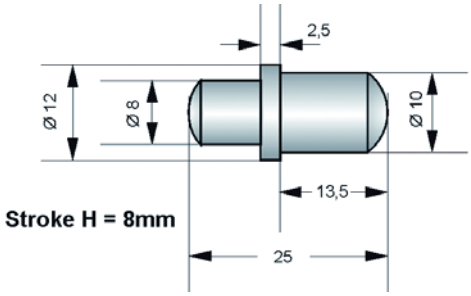
Colour	brown, similar to RAL 8017

019101 Blocking bolt for normal doors/windows



Technical Data

Opening pressure	35 N corresponds to 3,5 kp
Material bolt	brass
Material housing	brass, nickel-plated



Dimensions (mm)

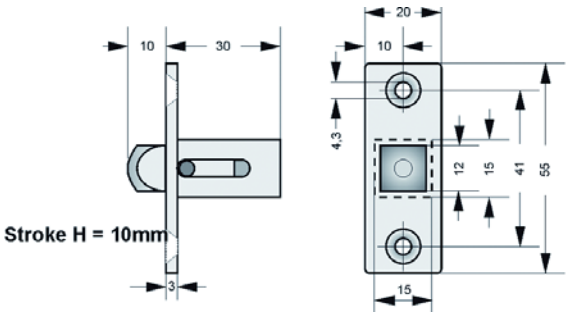
019103 Blocking bolt for heavy doors/windows



VdS **Approval** **G196039 (IDT), Class C**

Technical Data

Opening pressure	150 N corresponds to 15 kp
Material housing	die-cast zinc, hammer enamelled
Material bolt	steel, nickel-plated



Dimensions (mm)

019105 Blocking bolt with adjusting option



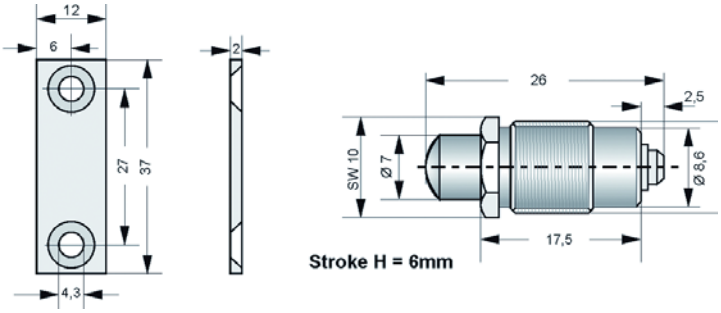
VdS **Approval** **G196040 (IDT), Class C**

For use in combination with the surface mounting kit 019106.

Technical Data

Opening pressure	35 N corresponds to 3,5 kp
Material	Bolts / Print plate / Housing: brass, nickel-plated

Counter plate including 2 fixing screws and counternut.



Dimensions (mm)

019106 Surface mounting kit



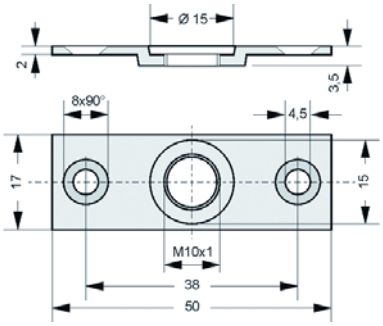
For fixing the setting for blocking bolt 019105.

Technical Data

Material	brass, nickel-plated

Mounting plate and counternut.

Dimensions (mm)



031065 Sliding door contact in plastic housing



VdS **Approval** **G196648 (IDT), Class B**

Technical Data

Switching voltage	100 V DC max.
Electric strength	150 V DC (1 sec)
Max. actuating direct current	0.5 A
Contact load	10 W
Temperature range	-25 °C to +70 °C
Type of protection DIN 40 050	IP 68
Environmental class as per VdS	III (VdS 2110)
Clear actuation zone with magnet type	100 51 MKS / 45 mm
Cable length	2 m (Standard LIYY 4 x 0.14 mm²)
Protective tube	stainless steel 0.5 m
Housing material	Polyamide GF, grey
Dimensions contact housing (W x H x D)	159 x 19 x 40 mm
Dimensions magnet housing (W x H x D)	100 x 40 x 35 mm

031066 Sliding door contact in plastic housing



VdS **Approval** **G196066 (IDT), Class C**

Technical Data

Switching voltage	max. 100 V DC
Electric strength	150 V DC 1 sec.
Max. actuating direct current	0,5 A
Contact load	10 W
Type of protection DIN 40 050	IP 68
Environmental class as per VdS	III (VdS 2110)
Clear actuation zone with magnet type	100 53 MKS / 27 mm
Cable length	2 m (LIYY 4 x 0,14 mm²)
Protective tube	stainless steel 0,5 m
Housing material	Polyamid GF, grey
Dimensions contact housing (W x H x D)	159 x 19 x 40 mm
Dimensions magnet housing (W x H x D)	100 x 40 x 35 mm

031067 Sliding door contact in aluminium housing



VdS **Approval** **G191525 (IDT), Class B, G 031210/73 E**

Technical Data

Switching voltage	max. 200 V
Electric strength	250 V 1 sec.
Max. actuating direct current	0.5 A
Contact load	10 W
Type of protection DIN 40 050	IP 68
Environmental class as per VdS	III (VdS 2110)
Clear actuation zone with magnet type	100 51 MKS / 50 mm
Cable length	2 m (LIYY 4 x 0.14 mm²)
Protective tube	Brass 0.5 m
Housing material	Aluminium, grey
Dimensions contact housing (W x H x D)	230 x 13 x 45 mm
Dimensions magnet housing (W x H x D)	100 x 40 x 35 mm

031068 Terminal box



Terminal box for sliding door contacts 031065, 031066 and 031067.

Technical Data

Dimensions (W x H x D)	100 x 60 x 25 mm

1 distributor; 4 cable binders; 2 screws; 1 connection to the metal tube; diameter 9 mm; 1 connection to the metal tube, diameter 8 mm; 4 screw-type covers; 2 VdS stickers; 2 dowels; 2 stickers for terminal allocation.

The cone, pine and micro switches are switches provided with a snap-action switching mechanism.

This allows maximum contact safety. The contacts are embedded in the frame.

031000 Cone contact



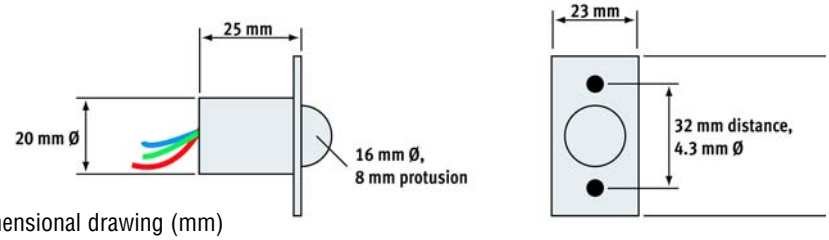
VdS **Approval** **G17207 (IDT), Class C**

With alternating contact.

Technical Data

Dimensions (W x H x D)	23 x 42 x 25 x 20 mm
Cable length	10 cm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.



Dimensional drawing (mm)

031000.17 Cone contact

NEW

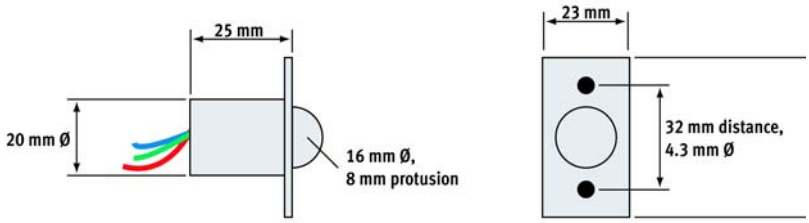


VdS **Approval** **G17207 (EMT), Class C**

With alternating contact.

Technical Data

Dimensions (W x H x D x Ø)	23 x 42 x 25 x 20 mm
Cable length	10 cm
Colour	trafficwhite, similar to RAL 9016



Dimensional drawing (mm)

031001 Pin contact

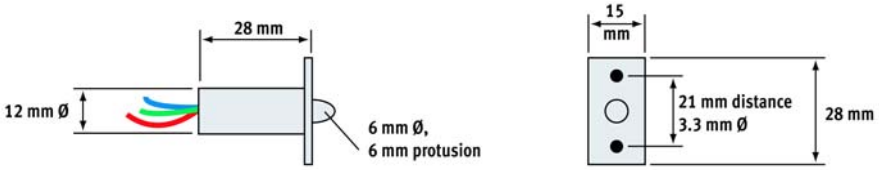


VdS **Approval** **G17208 (IDT), Class C**

With alternating contact.

Technical Data

Dimensions (W x H x D x Ø)	15 x 28 x 28 x 12 mm
Cable length	10 cm
Colour	greywhite, similar to RAL 9002



Dimensional drawing (mm)

031030 Micro contact with spring lever



In plastic housing containing the alternating contact.

Technical Data

Dimensions (W x H x D)	12 x 38 x 16 mm

031220 Spring contact



For use in garages, hall doors, coverings of light shafts, and the like, where large positional and bearing tolerances are observed. The spring rod is mobile on all sides and waterproof.

Technical Data

Rod length	150 mm
Dimensions (W x H x D)	45 x 70 x 30 mm

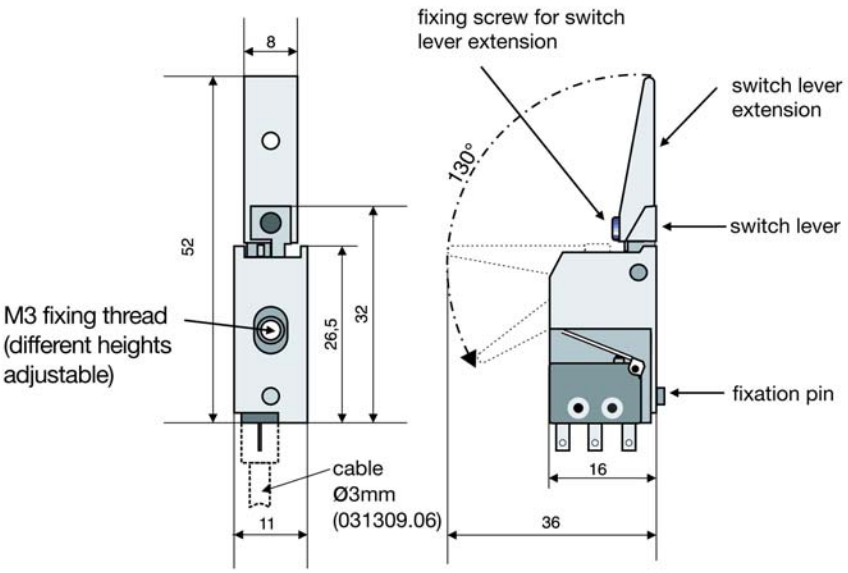
Electro-mechanical contacts provided with snap-action switching mechanism used for lock monitoring of doors. They are embedded inaccessibly in the striking plate of the door frame and are actuated by the lock bolt when the door is closed.

These bolt switching contacts are distinguished by a particularly low mounting depth and an adjustable switching point.

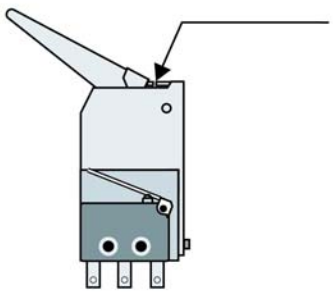
The mounting aid included in the delivery, which can be used as drilling template and as handle during mounting, makes for easy mounting.

Technical Data

Maximum switching capacity	30V DC / 100mA
Minimum switching capacity	1.5V DC / 10µA
Type of protection DIN 40 050	with soldered connection interior IP67, connections IP00; with moulded cable IP67
Operating temperature range	-40°C to +70°C



switch control adjustment



By using a small grubscrew, the switch control function can be adjusted with the allen key that is included, depending on the bolt penetration depth.

Dimensions (mm)

VdS Class C

031308 Bolt switching contact



VdS **Approval** **G100024 (IDT), Class C; VSÖ W 070427/60**

With soldering connection.

Not suitable for outer doors.

031309.06 Bolt switching contact



VdS **Approval** **G100023 (IDT), Class C**

Not suitable for outer doors.

With solidly mounted connection cable, 6m.

031300 Bolt switching contact in zinc die-cast housing



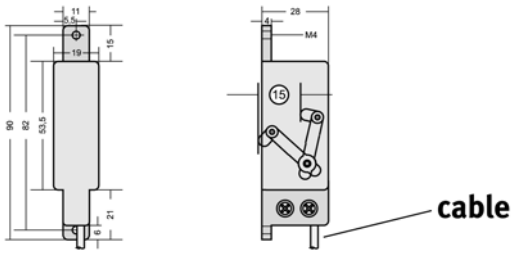
Heavy-duty, particularly stable design.

Technical Data

Maximum switching capacity	42 V AC / 1.5 A
Minimum switching capacity	12 V DC / 100 mA (ohmic load)
Cable length	4 m
Backset	max. 15 mm
Switching way	ca. 4 mm
Dimensions (W x H x D)	18 x 94 x 28 mm
Case	18 x 53 (66) mm

With 3-wire connecting cable.

Dimensions (mm)



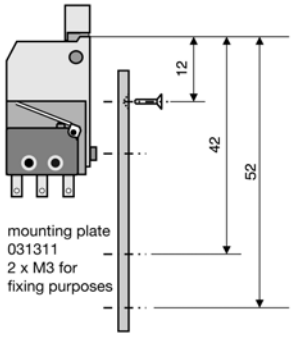
031311 Mounting plate



If the bolt switching contact has to be set higher in the presence of large recesses, the mounting plate can serve as extension.

5 pieces

Dimensions (mm)



031102 Trip wire switch with cover contact



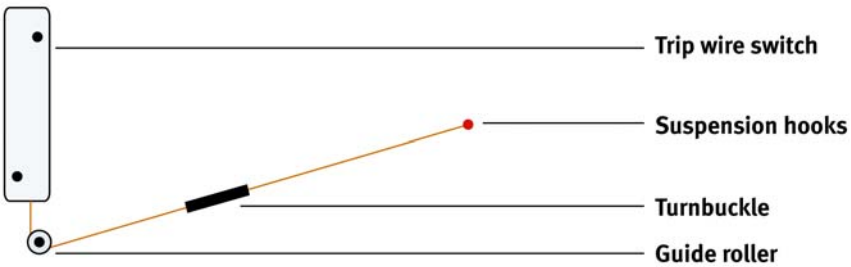
VdS **Approval** **G17214 (IDT), Class C**

For use, for example, in dormer windows, ventilation elements, emergency exits, showcases, etc. that are not opened, but must be monitored, or as trip hazard. The trip wire contact, due to the built-in reed contact, works both on traction and cord breakage.

Includes change-over contact for “Z” wiring.

Technical Data

Max. switching capacity	30 V DC
Max. switching current	100 mA DC (ohmic load)
Dimensions (W x H x D)	30 x 90 x 15 mm
Colour	greywhite, similar to RAL 9002



Mounting example

031125 Mechanical kit including turnbuckle and suspension hook



031125.03 Guide roller for angled mounting



031125.04 Guide roller for linear mounting



031110 Rope 100 meters



V2A, stainless wire, twisted.

Technical Data

Minimum break resistance	100 N
Dimensions (Ø)	0.33 mm

The current transmitters are suitable for specific requirements in which a wiring layout between rigid and mobile parts is required. This is required, for example, for securing revolving doors or extending the wiring to monitoring sensors. The cone-shaped, hard-gold plated contacts allow a vertical as well as a horizontal approach with maximum contact safety. The tappet contacts are available as surface mounted and flush mounted version.

Technical Data

Max. switching capacity	30 V DC
Max. switching current	100 mA DC (ohmic load)
Dimensions (W x H x D)	uP 20 x 86 x 22 mm; aP 24 x 76 x 15 mm

031204 Recessed tappet contact, 4-pin, white



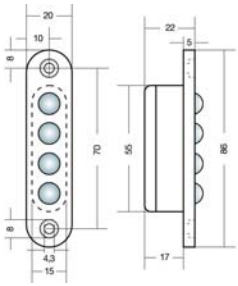
VdS **Approval** **G176142 (IDT), Class C; VSÖ W 070427/50**

Technical Data

Colour	white

Sale of remainder while stock last.

Dimensions (mm)



031204.17 Recessed tappet contact, 4-pin, white

NEW



VdS **Approval** **G176142 (IDT), Class C; VSÖ W 070427/50**

Technical Data

Colour	trafficwhite, similar to RAL 9016

031207 Screw-on tappet contact, 4-pin, white



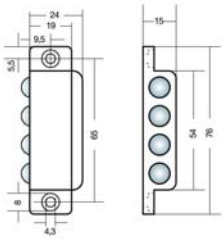
VdS **Approval** **G176145 (IDT), Class C; VSÖ W 031210/77 E**

Technical Data

Colour	white

Sale of remainder while stock last.

Dimensions (mm)



031207.17 Screw-on tappet contact, 4-pin, white

NEW



VdS **Approval** **G176145 (IDT), Class C; VSÖ W 031210/77 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016

031208 Surface mounted base for screw-on tappet contact, white



Technical Data

Colour	white

1 set = 3 pieces 2 mm, 3 mm and 5 mm

Sale of remainder while stock last.

031208.17 Surface mounted base for screw-on tappet contact, white

NEW



Technical Data

Colour	trafficwhite, similar to RAL 9016

1 set = 3 pieces 2 mm, 3 mm and 5 mm

031203 Recessed tappet contact, 4-pin, brown

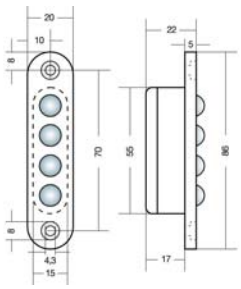


VdS **Approval** **G176142 (IDT), Class C; VSÖ W 070427/50**

Technical Data

Colour	brown

Dimensions (mm)



032025 Self-adhesive copper foil



The foil is placed on glass panes for monitoring. The strong adhesion guarantees that any glass breakage will separate the foil. This will interrupt the closed circuit and trigger an alarm. Walls and doors can be monitored in the same manner.

Technical Data

Width	10 mm
Length	50 m

032000 Foil connecting terminal



VdS **Approval** **G102526 (IDT), Class B**

Technical Data

Dimensions (W x H x D)	22 x 28 x 8 mm

031580 Alarm wall paper



VdS **Approval** **G195022 (IDT), Class C**

For optimum area monitoring of walls and ceilings. The wall paper consists of 2 layers of paper in which are embedded 6 parallel copper wires.

Technical Data

Back	95 g/m² heavy-weight, wood containing paper
Front	120 g/m² heavy-weight, high grade duplex paper with a wax-like coating
Alarm wire	Cu, ø 0.3 mm, enamelled
Wire resistor	0.25 Ohm per m alarm wire 1.5 Ohm for each wallpaper strip ca. 2.8 Ohm for each m² wallpaper
Wire distance	ca. 88 mm
Dimensions (L x W)	10.5 x 0.53 m

031581 Wall paper terminal strip



With cover contact.

Technical Data

Alarm contact	2 A / 30 V DC
Material housing	PVC
Material connector block	Hardboard
Dimensions (L x W x H)	530 x 22 x 20 mm cover strip, U-profile, 1.5 mm
Dimensions (L x W x H)	530 x 22 x 20 mm cover strip, U-profile, 1.5 mm

Each length of wallpaper requires 2 pieces.

Acoustic glass breakage sensor DETEKT 1000

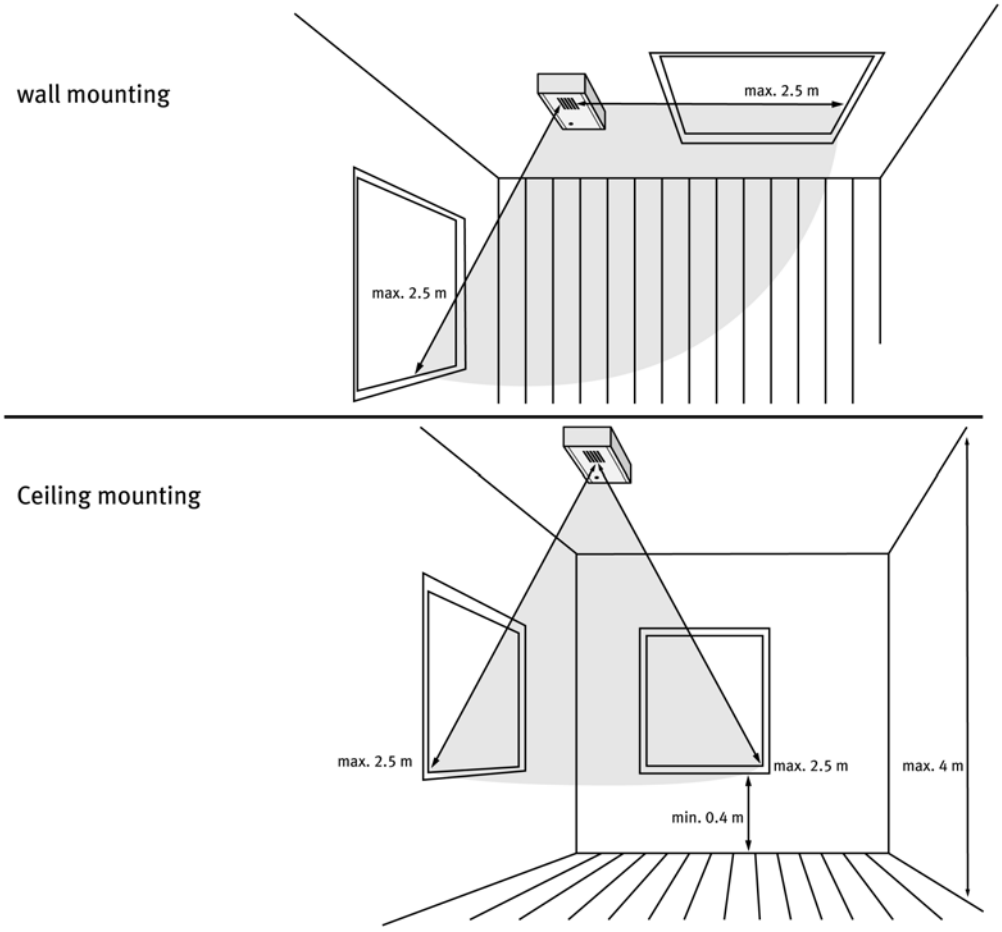
DETEKT 1000 is an acoustic glass breakage detector. It monitors windows for break-through, without the detector and the glass pane to be monitored being in direct contact.

Its particular performance feature consists in being able to monitor several windows using a single detector unit. Transom windows and windows consisting of several segments, crown glass and sliding windows are very complicated to monitor for glass breakage by the conventional method.

Technical Data

Operating voltage	12V DC
Operating voltage range	10V to 15V DC
Quiescent current	max. 3.6mA (12V)
Current consumption	max. 5mA (12V)
Environmental class as per VdS	II
Type of protection DIN 40 050	IP30
Operating temperature range	-10°C to +50°C
Storage temperature range	-25°C to +70°C
Time commissioning	max. 10sec.
Alarm duration	1sec to 6.2 sec. (typical 2.5sec.)
Monitored glass area	0.25m² to 18m²
Monitored room size	20m³ to 250m³
Detection angle	180°
Housing	ABS
Dimensions (W x H x D)	73x97x43mm
Weight	max. 150g
Colour	greywhite, similar to RAL 9002

Corner mounting adapter



Application example of the monitored areas

032420 Acoustic glass breakage sensor DETEKT 1000 BUS-1



In plastic housing with BUS-1 connection technology. DIP switch for programming the BUS-1 user address; slide switch for controlling the detector LED function.

Technical Data

Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

032420.17 Acoustic glass breakage sensor DETEKT 1000 BUS-1

NEW



In plastic housing with BUS-1 connection technology. DIP switch for programming the BUS-1 user address; slide switch for controlling the detector LED function.

Technical Data

Colour	trafficwhite, similar to RAL 9016

Accessories

032208 Tester DETEKT 1000



The manual tester is used for testing the DETEKT 1000 glass breakage detector during startup and maintenance.

In this test, a spectrum of frequencies is emitted by the manual tester that corresponds to the detection bands of the acoustic glass breakage detector.

032209 Adapter for manual tester



Required for using the manual tester with detector pull-down rod.

Acoustic glass breakage detector GT2

160435.10 Acoustic glass breakage detector AGB 600



VdS **Approval G103505 (IDT), Class B; VSÖ GS-H 070427/47 E**

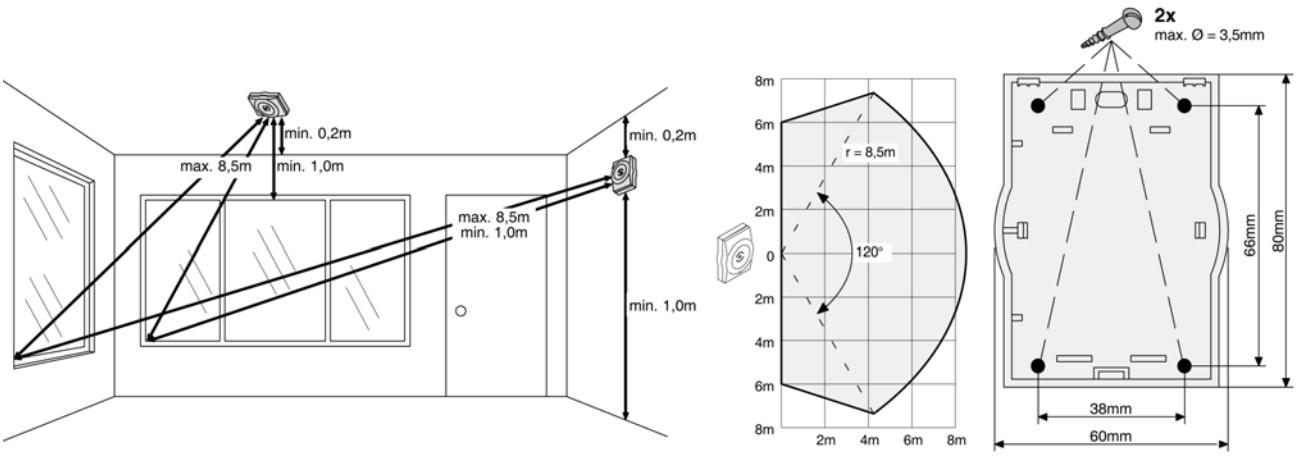
Thanks to its unique signal analysis based on a neuronal network, the acoustic glass breakage sensor AGB 600 is immune to false alarms while providing maximum detection safety. A comprehensive protection concept makes the detector insensitive to background noise from the surroundings. Its small and inconspicuous housing allows the detector to be mounted to walls and ceilings. The AGB 600 has two settings for precise adjustment to the surroundings.

Performance Features

- Detection radius up to 8.5 m
- Signal analysis is based on a neuronal network
- Detector test by using the glass breakage simulator AGB 600
- Acoustic functional test over the entire range of action
- Optimised for premises single- and multiple-glazed with simple window glass

Technical Data

Operating voltage	8 V DC - 16 V DC
Current consumption	no load 3,2 mA max. , alarm 8 mA
Identification of undervoltage	at alarm < 3,5 V
Alarm output	solid-state relais, open at alarm, 30 V DC, 100 mA
Sabotage switch	30 V DC, 100 mA
Type of protection	IP 31 (as per IEC)
Environmental class as per VdS	II
Air humidity	< 95% relative humidity, non condensing
Storage temperature	-20 °C to + 60 °C
Operating temperature	-10 °C to + 55 °C
Housing colour	white
Weight	ca 0,150 kg
Dimensions (W x H x D)	60 x 80 x 23 mm



Application example

160436 Tester for acoustic glass breakage detector AGB 600



Without 9 V block battery.

Passive Glass Breakage

Small, compact passive glass breakage sensor, completely encapsulated and waterproof with polarity reversal protection in SMD technology. It is suitable for securing flat glass panes for break-through monitoring. The frequencies produced by a glass breakage are received, evaluated electronically and identified by a piezo crystal.

In case of alarm, the LED display is activated until it is reset.

Up to max. 20 sensors can be connected per differential detector group in “Z” wiring. The sensors are supplied with power via the detector group.

Technical Data

Quiescent current	max. 1 µA
Detection radius	200 cm, irrespective of glass thickness
Type of protection DIN 40 050	IP 67
Environmental class as per VdS	II
Operating temperature range	-10 °C to +70 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (L x W x H)	22 x 22 x 12,2 mm

Not suitable for plastic panes.

Accessories:

032256.01	Sensor tester for passive glass breakage sensors
032265	Silicone glue RTV
032266	Contact spray
032267	Glass/metal gluing set Loctite 317 for VdS installations
055260	Glass/metal gluing set Loctite 319

032272.16 Mini glass breakage sensor “Z”, white, 6 m



VdS **Approval** **G182513 (IDT), Class B**

Technical Data

Cable length	6 m
Cable	suitable for IDC method of termination
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

032272.17 Mini glass breakage sensor “Z”, white, 6 m

NEW



VdS **Approval** **G182513 (IDT), Class B**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Not suitable for plastic panes.

032274.16 Mini glass breakage sensor “Z”, brown, 6 m



VdS **Approval** **G182513 (IDT), Class B**

Technical Data

Cable length	6 m
Cable	suitable for IDC method of termination
Colour	brown, similar to RAL 8017

Accessories

032268 Glue gauge for passive glass breakage sensor



For adjusting and gluing glass breakage sensors.

032256.01 Sensor tester for passive glass breakage sensors



Includes sensor connections for preliminary test and final inspection.

Active glass breakage sensor

170080 **Active glass breakage sensor MAGS-E**



VdS **Approval** **G193087 (IDT), Class C**

Only suitable for monitoring the following glass types:

- Silicate glass
- Flat glass
- Crystal glass
- Sekurit glass
- Composite safety glass (VSG)
- Wire-reinforced glass, bullet-proof glass
- Insulating glass

with integrated alarm memory and potential-free relay output.

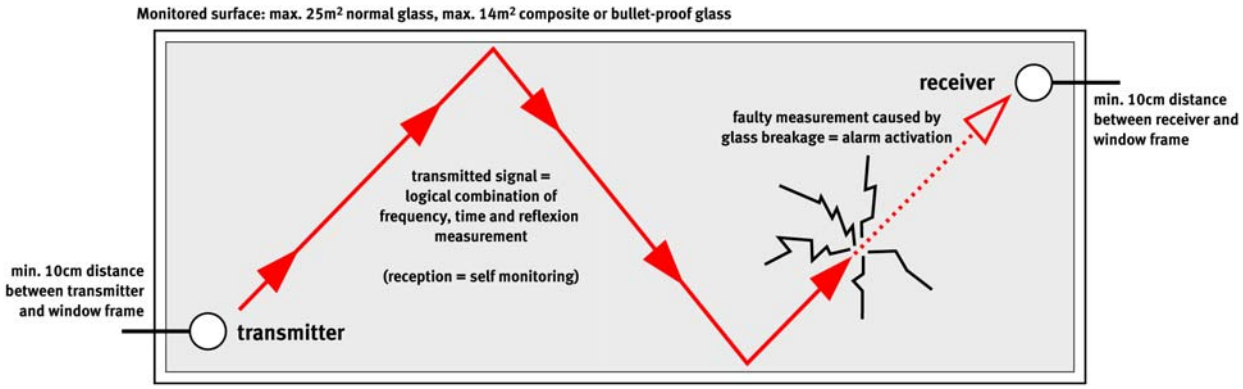
Technical Data

Operating voltage	10,4 to 15 V DC
Rated voltage	12 V DC
Quiescent current #4	< 22 mA at 12 V DC
Starting current	max. 28 mA
Cable length sensor (transmitter / receiver)	6 m, Ø 1,8 mm
Area to be monitored	max. 14 m² bis 25 m²
Ambient temperature	
Transmitter / receiver	-40 °C to +85 °C
Evaluating	-10° C to +75 °C
Type of protection	IP 31
Transmitter / receiver weight	ca. 2 g
Evaluating unit, weight	ca. 450 g
Dimensions transmitter/receiver (Ø x H)	Ø 14 mm, hight 6 mm
Dimensions evaluation device (WxHxD)	110 x 95 x 25 mm
Colour	white, similar to RAL 9003

Not suitable for plastic panes. For specific composite glass panes and bullet-proof glass panes, 2 additional sensor may be required.

The glazing of openings of buildings (e. g. display windows, windows, doors) of jeweller´s and watch maker´s shops must not be monitored if there are jewellery, gemstones, coins, medals, pearls etc. displayed behind them.

2 x sensor (transmitter/receiver) and evaluating unit
(transmitter sensor and receiver sensor are identical).



Functional diagram

Accessories:

032267 Glass/metal gluing set

170084 **Sensor of active glass breakage sensor**



Technical Data

Cable length	6 m
Colour	white, similar to RAL 9003

Not suitable for plastic panes.

1 piece (for an extension, 2 pieces must be ordered)

Accessories

170087 **Gluing gauge for active glass breakage sensor MAGS-E**



170088.10 **Electronic test device for active glass breakage detector MAGS-E or MAGS-S**

NEW



9V battery included

032113 Electronic vibration detector



VdS **Approval G193501 (IDT), Class B**

The detector is suitable for break-through monitoring of glass surfaces in windows and doors. It can be used on glass that cannot be monitored by means of passive glass breakage sensors, such as structural glass, composite, bullet-proof glass, glass with wire insert and glass with plastic liner.

Mass accelerations produced by application of force are received by a piezo element, which converts them into electrically measurable variables.

This detector is distinguished by adjustable sensitivity and high interference immunity.

Per detector group, max. 20 detectors can be connected. The connection takes place in “Z” wiring on differential detector groups.

Performance Features

- Field of application:

  Smooth and structured surfaces with < 1mm of unevenness made of glass/metal, prerequisite: closed medium

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	6 V to 15 V DC
Current consumption in no-load	< 500 nA (for Unominal, measuring time 10 sec.)
Current consumption alarm	< 12 mA (for Unominal)
Humidity class according to DIN 40040	class F
Operating temperature range	-10 °C to +50 °C
Storage temperature range	-25 °C to +70 °C
Reset time	> 1 sec.
Operating time	100 % duty cycle
Installation position	variable
Radius to be monitored	ca. 1,5 m (uniform area)
Weight	50 g
Cable length	ca. 6 m
Dimensions (W x H x D)	38 x 53 x 19 mm
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

Accessories:

032265 Glue RTV, silicone glue

032113.17 Electronic vibration detector

NEW



VdS **Approval G193501 (IDT), Class B**

Technical Data

Colour	trafficwhite, similar to RAL 9016

Universal Seismic Sensor

Performance Features

- **VdS-approval**
- **Detects attacks to:**

  vault doors, ATMs, night depositories, safe vaults, modular safes, coin-operated machines, detached safes, hatches, gates, footlockers and offer objects of massive structure.
- **Detects attacks done by:**
  - a heavy kick or blow with a heavy hammer or by explosive material
  - repeated knocking caused by hammer and chisel
  - drilling, mechanical cutting, welding torches, hot cutting devices, jet cutting devices
  - water cooled diamond drills
  - hydraulic jacks (SC100 only)
- **Sensor with small dimensions:**

  The smallest detector available on the market, fits even with restricted space.
- **Universally applicable (ATM & safe):**

  By simple DIP-switch settings, the SC100 can be used for ATMs as well as for night depositories
- **Drilling protection (standard):**

  Protects the interior electronnics from tamper
- **Large temerature range:**

  Enables operation at extreme temerature onditions (-40°C to + 70°C).
- **Imput for remote controlled sensibility reduction:**

  Enables the reduction of the sensibility with use in ATMs to prevent false alarms
- **Multi-compatible mounting plate fits to pre-assembled mounting apertures:**

  Fits to most of the pre-drilled mounting holes of other seismic detectors which saves time-consuming drilling/cutting of notches.

  Even keeps maintenace easier. Last not least the same mounting plate can be used for installation on concrete as well as for welding on steel.
- **Integrated temperature alarm:**

  SC100 and SC105 will trigger an alarm if the temperature exceeds 85°C. Furthermore, SC100 will trigger an alarm if the temperature raises more than 6°C per minute.

  This causes alarm messages on attacks with tools creating heat like e. g. a termic lance.
- **Diagnosis LED:**

  Integrated tool for selection of the correct sensivity, doesn´t require time-consuming work with external devices.
- **Adjustable sensitivity:**

  Four different sensitivity settings possible for adaption to the required range and environment conditions.
- **Electronics for remote test or via test transmitter:**

  Input to run a remote functionality test with SC113 (internal test transmitter) or SC115 (external test transmitter).

  With no test transmitter available, this test can be used for checking the internal electronics.

The seismic detectors of the SC100 series have been developed for recognition of vibrations generated by intrusions or tries of intrusions into stores for high-value goods.

The SC100 type is a universal seismic detector applicable for vaults, doors, ATMs, safes and other massive structures.

The SC105 type is a special version for mini ATMs or coin-operated machines normally positioned in a noisy environment. It provides the optimal relation of sensitivity and protection of false alarms for the detached objects.

The SC100 series provides different unique functions for reduction of the installation time, e. g.: integrated end of line resistors, embedded diagnostic tool, the smallest dimensions available on the market, universal applicability, even for ATMs.

Technical Data

Power supply	
Supply voltage	8 to 16 V DC, rated operating voltage 12 V DC
Current consumption	Typical 3 mA at 12 V DC
Sensitivity	
Settings possibillities	4 steps by DIP-switch
Reduced Sensitivity Input for maintenace & service	Active low (< 1,5 V DC)
Selection cash dispenser / safe	Via DIP-switch
Delayed actuation	N/A
Alarm outputs	
Semi-conductor relais (change over relais)	30 V DC / 100 mA, typ C
Open collector	During alarm aktive low
Alarm time period	ca. 2,5 sec.
Tamper protection	
Pry open and open contact	30 V DC / 100 mA
Alarm	< 7 V DC (due to low supply voltage)
Temperature alarm	+85 °C ± 5 °C
Internal funktionality alarm	Bohrschild aus rostfreiem Stahl
Inputs	
Remote test	Aktive low 1,5 V DC, test duration < 0,5 sec.
Reduced Sensitivity Input	Aktive low 1,5 V DC; test duration < 0,5 sec.; sensitivity reduction up to 12,5 %
Installation support	Integrated noise and alarm indication for support of the sensitivity adjustment
Environment conditions	
Maximum humidity	95 % relative humidity (non condensing)
Operating temperature range	-40 °C to + 70 °C
Storage temperature range	-50 °C to + 70 °C
Environmental class as per VdS	III
Class of protection DIN 40050	IP43
Housing	
Frame and cover	Metal pressure die casting
Weight	0,228 kg
Colour	light grey, similar to RAL7035
Dimensions (H x W x D)	80 x 60 x 21 mm

- **Available accessories:**

  Mounting plate, drilling protection kit for keyhole, day/night kit, test transmitter (internal), armed cable and test transmitter (external).
  This selection of accessory parts enables the mounting of the seismic detectors SC100 and SC105 for the most differet applications.
- **Low current consumption:**

  The seismic detectors stand out due to their low current consumption

SC100 Universal Seismic Sensor



VdS **Approval** **G110004 (IDT), Class C**

Applications:
Vault doors, ATMs, night depositories, safe vaults, modular safes, detached safes, hatches, gates, footlockers.

Technical Data

Recognition radius	5 m

Efficient alarm algorithm, highly sensitive for all known attacks, at the same time impassible against known triggers for false alarms using innovative filters and firmware.

SC105 Universal Seismic Sensor



VdS **Approval** **G110005 (IDT), Class C**

Applications:
Lobby ATMs, filing cabinets, containers, vending machines, ticket machines, gates, footlockers.

Technical Data

Recognition radius	3 m
Alarm algorithm	Highly sensitive for all known attacks, at the same time adjusted to the higher noise level of public areas the objects to be secured are lacated in order to avoid false alarms using innovative filters and firmware

Efficient alarm algorithm, highly sensitive for all known attacks, at the same time adjusted to the higher noise level of public areas the objects to be secured are located in order to avoid false alarms using innovative filters and firmware.

Assessories for SC100/SC105

SC110 Mounting plate for SC100/SC105



Mounting plate for seismic sensors SC100, 105 and external tester SC115.

Suitable for direct mounting on concrete (screws) or steel (two recesses for welding).

Screw M6x50 and metallic anchor

SC111 Movable mounting kit for SC10x

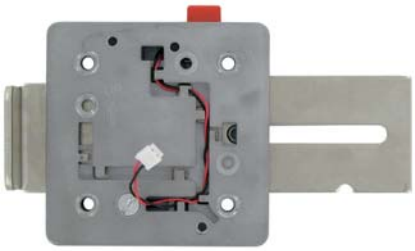


During daytime the sensor is fixed on the day plate. For securing the safe door during nighttime, the sensor has to be fixed on the night plate.

When removing while the security panel is armed the tamper contact will cause an alarm. For arming the system, the sensor must be fixed on the night plate.

Mounting plate for sensor mounting
Day plate, for mounting on a side of the safe
Night plate, für mounting on the safe door

SC112 Keyhole protect kit for SC10x



The keyhole protection kit SC112 is used with SC series seismic vibration detectors to prevent unlocking doors during armed installation or loading explosives into the keyhole and at the same time detects intrusion attempts on doors.

The seismic sensor SC100/105 has to be mounted on the keyhole protection kit. For securing the keyhole, a cover plate can be pulled over the keyhole.

SC113 Internal seismic test transmitter for SC100/SC105



For remote activated test of the seismice sensor.

Will be mounted within seismic sensors SC100/105. Activation of the internal tester will cause a vibration which will activate the seismic sensor.

SC114 Armored cable kit for SC100/SC105, 1,8 m (8 wires)



The cable kit is 1,8m long and is used for mounting SC100/105 in combination with SC111 and SC112.

SC115 External seismic test transmitter



For testing of several seismic sensors within one area (e.g. vault room).

Radius of range: at least 5m at maximum sensitivity of the seismic sensor.

SC116 Wall recess mounting box



The wall recess mounting box can be used to mount the detectors SC100 in the walls of concrete structure, such as vaults.

- Fastening of the assembly box before filling the concrete into the boarding
- Removing of the EPS-block after hardening of the concrete
- Mounting of the SC100 in the box and covering with provided cover plate

SC117 Floor reces mounting box



Floor assembly box for the seismic sensor SC100.

Resilient up to 1000 kg e. g. for transport carts transporting gold.

SC118 Spacer for SC112



Spacer for the keyhole protector SC112.

Suitable if a collar is used around the keyhole.

Longer screws included in scope of delivery.

Accessories

032540.10 Remote test system GMYA7-AS for GM775



VdS **Approval G108092 (IDT) class C**

The GMYA7 remote test system (consisting of the key module GMYA7-S and the display module GMYA7-A) enables a daily function test of one or several seismic detectors independent of an intruder alarm control panel.

Modular hold-up detector

031540 Module for hold-up pushbutton BUS-1



VdS **Approval G194039 (EMT), Class C**

Hold-up pushbutton from the multi-functional operating unit program meet the requirements for hold-up detection systems. The module insert for the hold-up detector can be built in using a surface mounted or flush mounted basic housing.

Technical Data

Current consumption	max. 500 µA (for U rated voltage)
Operating voltage range	10 V to 15 V DC
Current consumption with buzzer	15 mA
Contact load	max. 30 V DC/100 mA; min. 1,5 V DC/10 mA (ohmic load)
Environmental class as per VdS	II
Type of protection	IP 40 (built-in)
Colour of housing	greywhite, similar to RAL 9002
Colour of front plate	greywhite, similar to RAL 9002
Material	plastic

Without basic housing.

Accessories:

012600	Surface-mounted basic housing for 1 module
012601	Flush-mounted basic housing for 1 module
012415	Flush-mounted housing for 012601
012612	Dummy module for basic housing
012654	Paper seal, 10 per packaging unit

012654 Paper seal for modular hold-up pushbutton

10 pieces

Hold-up detector, square style

Performance Features

- Pulse triggering, thus alarm repetition possible
- Cover contact for sabotage monitoring
- Triggering identification by paper seal or LED
- Seal: Paper insert
- Surface- and flush-mounting of the connecting cables possible

The hold-up detectors are used with manual control for inconspicuous hold-up alarm actuation. Actuating the pressure plate will trigger the alarm signal at the hold-up and intrusion detection control panel and necessarily destroy the indicator paper at the same time, thus displaying the alarm triggering permanently.

The detector must be placed to allow an inconspicuous alarm actuation and prevent the committer from seeing the triggered LED (in detectors with LED).

The hold-up detectors meet the requirements of the hold-up detection systems for connection to the police or security service.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	6 V to 18 V DC
Alarm contact	Change over contact 30 V DC/100 mA
Tamper switch	NC contact 30 V DC/100 mA
Display	LED with display memory
Current consumption in no-load operation	< 1 µA at 12 V DC
Current consumption alarm	5 mA (LED)
Environmental class as per VdS	II
Type of protection	IP 30
Material	Plastic ABS
Dimensions (W x H x D)	82 x 82 x 30 mm
Colour	signal white, similar to RAL 9003

031592 Hold-up detector, white, surface mounted, with LED display



VdS **Approval** **G196044 (IDT), Class C; VSÖ W 070427/48**

Technical Data

Dimensions (W x H x D)	82 x 82 x 30 mm

031593 Hold-up detector, white, flush mounted, with LED display



VdS **Approval** **G196044 (IDT), Class C; VSÖ W 070427/48**

Technical Data

Installation	standardised f.m. installation box (cavity wall socket for VdS, milled hole Ø 68 mm)
Dimensions (W x H x D)	82 x 82 x 3 mm plastic cover, 88 x 88 x 3 mm plastic adjustment plate

031590 Hold-up detector, white, surface mounted, without LED display



VdS **Approval** **G196044 (IDT), Class C; VSÖ W 070427/48**

Technical Data

Dimensions (W x H x D)	82 x 82 x 30 mm

031591 Hold-up detector, white, surface mounted, without LED display



VdS **Approval** **G196044 (IDT), Class C; VSÖ W 070427/48**

Technical Data

Installation	standardised f.m. installation box (cavity wall socket for VdS, milled hole Ø 68 mm)
Dimensions (W x H x D)	82 x 82 x 3 mm plastic cover, 88 x 88 x 3 mm plastic adjustment plate

031594 Paper seal

For hold-up detectors 031590 to 031593.

10 pieces

Hold-up detector, round style

Performance Features

- Pulse triggering, thus alarm repetition possible
- Cover contact for sabotage monitoring
- Triggering identification by paper seal
- Seal: Paper insert
- Housing cap with accidental contact guard available as an option
- Surface- and flush-mounting of the connecting cables possible

Elegant hold-up detector, optionally upgradable to housing cap with cover. The front-mounted cover prevents an accidental actuation.

Thanks to its sophisticated mounting and connection technology, the detector is quickly installed.

Technical Data

Alarm contact	Change over contact 30 V DC/300 mA
Tamper switch	Change over contact 30 V DC/100 mA
Environmental class as per VdS	II
Type of protection	IP 40
Weight	ca. 70 g
Material	Plastic, ABS
Dimensions (Ø x H)	81 x 31 mm
Colour	greywhite resp. grey

031550 **Hold-up detector, greywhite, surface mounted**



VdS **Approval** **G195065 (IDT), Class C**

031551 **Closing cover with cap, grey**



031552 **Paper seal**

For hold-up detector 031550.

10 pieces

Hold-up floor alarm bar / Floor mat

031521 **Hold-up floor alarm bar, 30 cm long**



VdS **Approval** **G186030 (IDT), Class C**

Minimum noise formation, including a mechanical trigger display and protection of the cover.

It can be connected via a soldered terminal strip.

Technical Data

Maximum switching capacity	max. 42 V DC / 100 mA
Weight	300 g
Dimensions (W x H x D)	300 x 30 x 36 mm

Floor mat

031230 **Floor mat 720 x 390 mm**



The contact floor mats are made of high-quality materials and sealed in a PVC cover. The mats are designed for interior use.

The ground should be even and without burrs, in order to avoid damage to the mats.

Since the mats are not completely protected against ingress of water, they should not be laid in humid environments.

Technical Data

Contact	1 NC contact (normally open) (wires are stripped)
Sabotage switch	for looping the tamper circuit
Switching voltage	max. 30 V DC
Switching current	max. 25 mA (no inductive loads)
Contact actuation	25N to 105N for 60 mm²
Dimensions (L x W)	720 x 390 mm

Pressure-insensitive margin (15 mm) for fixing.

031530 Paper money contact standard design



Paper money contact in optoelectronic design in plastic housing.

Technical Data

Quiescent current	15 mA
Alarm current	10 mA
Material	plastic
Dimensions (W x H x D)	38 x 45 x 16 mm
Colour	purewhite, similar to RAL 9010

Connecting cable, 4-pin.

160215 Paper money contact GSK 1 E



VdS **Approval** **G184124 (IDT), Class C; VSÖ W 070427/46 E**

Electronic parallel sensor according to police emergency call and VdS guidelines.

For manual triggering of a hold-up alarm and inconspicuous mounting in bank note tray.

Unambiguous detection of the triggered paper money contact.

Reset only possible after removing seal.

Technical Data

Operating voltage	12 V DC
Quiescent current	ca. 1.2 mA
Alarm contact	potential-free reed contact (NO switch)
Contact load	28 V / 0,1 A
Dimensions (W x H x D)	55 x 19 x 115 mm
Housing colour	light grey, similar to RAL 7035

Delivery excluding paper money.

019660 Tear-off detector AM115



VdS **Approval** **G 194032, Class C**

For monitoring safes, strongrooms, weapons cabinet, machines, showcases, art objects, window grilles, and many more against unauthorised removal.

Technical Data

Dimensions	35 x 25 x 45 mm
Maximum switching capacity	max. 30 V DC, 100 mA
Sabotage switch	max. 30 V DC, 100 mA (NC)

For use in combination with M10 - M16 screws (Art. No. 019661.99/019661.01/019661.02).

Consisting of:
Spacer ring, pcb designed as pre-determined break point, tamper lid and 4 m connection cable.

019661.99 Heavy-duty dowel SLD 31 M10/100

For fixing the component (safe) via external thread.
Monitored for removal/tear-off in connection with tear-off detector AM115 (019660).

2 pieces

019661.01 Heavy-duty dowel SLD 41 M12/100

For fixing the component (safe) via external thread.
Monitored for removal/tear-off in connection with tear-off detector AM115 (019660).

2 pieces

Phase-out date 31.12.2012.

019661.02 Heavy-duty dowel SLD 51 M16/100

For fixing the component (safe) via external thread.
Monitored for removal/tear-off in connection with tear-off detector AM115 (019660).

2 pieces

Phase-out date 31.12.2012.

031561.16 Water detector for wall mounting, white



The water detector serves for the detection of water inrushes. The water detector detects the accumulating water via 2 gold-plated electrodes.

The sensor is housed in an enclosed plastic housing. The housing topside contains an LED, which allows the triggering of the detector to be identified.

Performance Features

- Completely enclosed and waterproof
- "Z wiring" allows it to be looped into a differential detector group
- Luminous diode single display guarantees unambiguous identification of a sensor in alarm status
- Connection is insensitive to polarity, owing to a special reverse polarity protection.
- Floor or wall mounting

Technical Data

Operating voltage	12 V DC
Operating voltage range	3 V to 15 V DC
Reset voltage	1.3 V DC
Quiescent current	‹20 µA (for rated voltage)
Alarm current	4 mA (for rated voltage)
Detection at humidity	RF ca. 80 kOhm
Operating temperature range	0 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Connection lead	LIYY 4x 0.14, white, 6 m
Cable	Conductor suited for IDC method of termination
Dimensions (W x H x D)	22 x 28 x 14 mm
Colour of housing	purewhite, similar to RAL 9010

The recommended glue is the RTV silicone glue 032265.

The detector can only be connected to inputs with clear function.
Not applicable in conjunction with RF I/O modules (015601, 015601.01).

Sale of remainder while stock last.

031561.17 Water detector for wall mounting, white

NEW



Technical Data

Colour	trafficwhite, similar to RAL 9016

Compact gas, heat and cold detector

The gas, heat and cold detectors are used for detecting and evaluating physical variables such as hydrocarbon gases (methane and propane) or temperature limit values.

The complete electronics including sensors and buzzer (local alarm actuation) is built into a sturdy plastic housing. The potential-free output allows direct connection to hazard detection control panels and telephone diallers.

057350.99 Compact gas detector for methane



Pre-alarm at 0.5 % of CH4 = 10% of LEL, main alarm at 1% of CH4 = 20% of LEL.

Technical Data

Operating voltage	8,5 V to 14 V DC
Rated voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Quiescent current	max. 200 mA
Alarm current	max. 70 mA
Ambient temperature	0 °C to +60 °C
Storage temperature	-25 °C to +70 °C
Relative humidity	30 % to 70 %
Housing	plastic
Colour	white, similar to RAL 9002
Dimensions (W x H x D)	118 x 118 x 31 mm

The compact methane gas detector must not be placed in locations in which the Employer's Liability Insurance Association prescribes detectors with BAM (Federal Institute for Material Research and Testing) approval.
This detector can only be used for natural gas, not for city gas, since only natural gas contains about 80% of methane (CH4)!
Since methane gas is lighter than air, methane gas detectors must be mounted at the upper wall half.

057351 Compact gas detector for propane



Pre-alarm at 0.21 % of C3 H8 = 10 % of LEL, main alarm at 0.42 % of C3 H8 = 20 % of LEL.

Technical Data

Operating voltage range	8.5 V to 14 V DC
Operating voltage	12 V DC
Floating relay contact	24 V DC / 1 A
Quiescent current	max. 30 mA
Alarm current	max. 70 mA
Operating temperature range	0 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Relative humidity	30% to 70%
Housing	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	white, similar to RAL 9002

057355.10 Compact heat detector



Technical Data

Operating voltage	8,5 V to 14 V DC
Rated voltage	12 V DC
Relay contact rating	24 V DC / 1 A
Quiescent current	max. 30 mA
Factory setting	Responds with temperatures > +40 °C
Adjustable from	+20 °C to +50 °C
Ambient temperature	-25 °C to +65 °C
Storage temperature	-25 °C to +65 °C
Relative humidity	< 95 % without thawing
Housing	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	white, similar to RAL 9002

057356 Compact cold detector



Technical Data

Operating voltage	8.5 V to 14 V DC
Rated voltage	12 V DC
Relay contact loading capacity	24 V DC / 1 A
Quiescent current	max. 30 mA
Factory setting	is activated at temperature levels under +5° C
Adjustable	-10 °C to +15 °C
Ambient temperature	-25 °C to +65 °C
Storage temperature	-25 °C to +65 °C
Relative humidity	< 95% without condensation
Housing	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	white, similar to RAL 9002

Fire detector inserts

062092 Fixed temperature detector IQ8Quad



VdS **Approval G109510 (IDT)**

Automatic heat detector with fast semiconductor sensor to guarantee reliable detection of fires with strong heat generation.

Intelligent fire detector with decentralised intelligence, automatic function self-test, alarm and operating data memory, alarm display, soft addressing and separate operating display.

Suitable for:

015620	RF-Smoke detector base
015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 40µA
Operating temperature range	-20 °C to +50 °C
Class of protection	IP 42
Monitoring height	max. 7. m
Area to be monitored	max. 30 m²
Detector specification	EN 54-5 A1S
Response temperature	58 ± 4 °C
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

Special marking for heat detector on the light pipe: black ring

062093 Rate-of-rise detector IQ8Quad



VdS **Approval G109511 (IDT)**

Automatic heat detector with fast semiconductor sensor to guarantee reliable detection of fires of fast rise in temperature and integrated fixed temperature heat function to detect fires of slow rise in temperature.

Intelligent fire detector with decentralised intelligence, automatic function self-test, alarm and operating data memory, alarm display, soft addressing and separate operating display.

Suitable for:

015620	RF-Smoke detector base
015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 40µA
Operating temperature range	-20 °C to +50 °C
Class of protection	IP 42
Monitoring height	max. 7.5 m
Area to be monitored	max. 30 m²
Detector specification	EN 54-5 A1
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

Special marking for heat detector on the light pipe: black ring

062094 Optical smoke detector IQ8Quad



VdS **Approval G109512 (IDT)**

Photoelectronic smoke detector to guarantee reliable early detection of fires.

Intelligent fire detector with decentralised intelligence, automatic function self-test, alarm and operating data memory, alarm display, soft addressing and separate operating display.

Suitable for:

015620	RF-Smoke detector base
015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 50 µA
Operating temperature range	-20 °C to +50 °C
Class of protection	IP 42
Monitoring height	max. 12 m
Area to be monitored	max. 110 m²
Detector specification	EN 54-7
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

062095 O²T intelligent detector IQ8Quad



VdS **Approval G109513 (IDT)**

Multi sensor detector with two integrated optical smoke sensor having different scattered light angles and additional heat detector sensor evaluation for detection of smouldering fires up to open fires exhibiting uniform response behaviour.

Comparison of the smoke sensor signals for smoke classification and reduction of deceptive alarms, caused, for example, by steam or dust.

Its excellent detection properties also enable the detector to detect the test fires TF1 and TF6 described in the standard. The O²T intelligent detector is also suitable for higher application temperatures of up to +65 °C.

Suitable for:

015620	RF-Smoke detector base
015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19V ca. 60µA
Operating temperature range	-20 °C to +65 °C
Class of protection	IP 42
Monitoring height	max. 12 m
Area to be monitored	max. 110 m²
Detector specification	EN 54-7/5 B, CEA 4021
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010

062096 OTG intelligent detector (CO) IQ8Quad



VdS **Approval G109514 (IDT)**

Multi sensor detector with integrated smoke, heat and gas sensor (CO) for preventive detection of a fire. Early detection of smouldering fires up to open fires by combined evaluation of scattered light, temperature and gas.

Triggers an alarm when the concentration of the inodorous gas carbon monoxide (CO) becomes life-threatening.

Suitable for:

015620	RF-Smoke detector base
015620.01	RF-Smoke detector base
062090	Smoke detector base module BUS-2/BUS-1

Technical Data

Rated operating voltage	8 V DC to 42 V DC
Closed Circuit Current	@19 V ca. 65µA
Operating temperature range	-20 °C to +50 °C
Class of protection	IP 42
Monitoring height	max. 12 m
Area to be monitored	max. 110 m²
Detector specification	EN 54-7/5 A2, CEA 4021
Storage temperature range	-25 °C to +75 °C
Weight	ca. 110 g
Dimensions	177 x 49 mm (incl. Base 62 mm)
Housing	ABS, white, similar to RAL 9010
CO-alert	ca. 100 ppm

Gas sensors (CO) react mainly to the carbon monoxide (CO) formed in a fire. They exhibit, however, also cross sensitivity to other gases such as hydrogen (H2), acetylene (C2H2) or nitrogen monoxide (NO).

Special marking for gas detector on the light pipe: golden ring.

Notizen



Alarm devices

- Audible alarm devices
- Optic alarm devices
- Optic/Audible alarm devices
- Day alarm

An important link in the chain of actions of a hazard detection system are the alarming devices. Apart from silent alarming, carried out via telephone diallers, the traditional alarm devices are still performing the important and often decisive function of local alarm. In a case of emergency, seconds can be decisive, this is why an alarm given directly where it happens gives valuable advantages in time.

Apart from the advantage of quick intervention, external alarm devices, solely by being visible, have a deterrent effect, which should not be underestimated.

Audible alarm devices for external alarms

Acoustic external alarm device are for local alarms, for example in case of break-in, fire or hold-up.
In practice, two alarm devices are mounted at a distance from one another. Upon failure or sabotage on an alarm device, the alarm is still guaranteed.

048700 Audible alarm device



VdS **Approval** **G100068 (IDT), Class C**

High-loudness alarm device in an attractive plastic housing equipped with tear-off protection, reach-through protection and sabotage monitoring. Its successful design make the alarm device also suitable for use in demanding environments.

Technical Data

Rated operating voltage	12 V DC
Operating voltage	10 V to 15 V DC
Current consumption active	typ. 250 mA
Loudness level	>100dB (A)
Environmental class as per VdS	IV
Class of protection DIN 40050	IP 44
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Material	plastic
Dimensions (W x H x D)	185 x 210 x 98 mm
Colour	greywhite, similar to RAL 9002

Adapted to the hazard alarm systems of the HB/MB series. The activation signal is provided by the connected hazard detection control panel.

Sale of remainder while stock last.

048700.17 Audible alarm device

NEW



VdS **Approval** **G100068 (IDT), Class C**

Technical Data

Colour	trafficwhite, similar to RAL 9016

160456.10 Acoustic compact alarm device P2500



VdS **Approval G101104 (IDT), Class C**

Impact-resistant plastic housing with sheet metal lining.

3 different types of alarm tones can be programmed.

Technical Data

Operating voltage	12 V DC
Voltage range	10.2 - 13.8 V DC
Current consumption	alarm tone ca. 330 mA (12 V), 200 mA (24 V); alarm tone fire ca. 370 mA (12 V), 210 mA (24 V); alarm tone technical ca. 200 mA (12 V), ca. 110 mA (24 V)
Frequency range	alarm tone ca. 400 - 1200 Hz (increasing 1,6 sec.); alarm tone fire ca. 1200 - 500 Hz (decreasing 1,0 sec.); alarm tone technical ca. 820 Hz (on: 0,75 sec./off: 0,75 sec.)
Loudness level	100 dB(A)/1 m
Sound pressure	105 dB(A)
Environmental class as per VdS	IV
Type of protection DIN 40 050	IP 34
Material	plastic
Weight	1.2 kg
Dimensions (W x H x D)	200 x 110 x 65 mm
Colour	greywhite, similar to RAL 9002

Monitoring resistance 4.7 kOhm integrated.
To be controlled via relay.
No monitoring of pressure chamber loudspeaker.

Installation equipment.

Acoustic alarm devices for internal alarms

Apart from the audible external alarm devices, there is also a group of audible alarm devices for internal applications. The offer ranges from the indoor siren for signalling alarms or individual events to the buzzer, for example for signalling switch-on and alarm delay times.

043065.10 Piezo indoor siren, conventional connection



VdS **Approval G199021 (IDT), Class C**

Compact modern siren in plastic housing for indoor use. With integrated cover contact for sabotage monitoring.

Surface mounted and flush mounted wiring possible. The volume can be programmed in two steps, the signal type in four.

Activation is effected by applying the operating voltage.

Programmable signal type:

1.) 330 Hz to 1200 Hz increasing sawtooth
2.) 1200 Hz to 500 Hz decreasing sawtooth according to DIN 33404
3.) 660 Hz / 900 Hz switched over 3x per sec.
4.) 500 Hz to 1200 Hz sinusoidal

Technical Data

Operating voltage	12 V DC
Operating voltage range	10 V to 28 V DC
Current consumption	40 mA at 90 dB (A) (for rated voltage)
Programmable volume	74 dB (A) and 90 dB (A)
Type of protection DIN 40 050	IP 32 (installation with upward radius)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 87 x 34 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

043065.17 Piezo indoor siren, conventional connection

NEW



VdS **Approval** **G199021 (IDT), Class C**

Technical Data

Colour	trafficwhite, similar to RAL 901

043066.10 Piezo indoor siren, conventional connection - red



VdS **Approval** **G199021 (IDT), Class C**

Same as article 043065.17, but red.

Technical Data

Colour	red, similar to RAL 3000

043060 Piezo indoor siren, BUS-1 connection



VdS **Approval** **G100022 (IDT), Class C; VSÖ W 070627/02 E**

Same as article 043065.10, but activation takes place via BUS-1.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at 12 V DC	BUS-1 quiescent : typ. 4 mA
Conventional connection active	typ. 40 mA at 90 dB(A)
Programmable volume	74 dB(A) and 90 dB(A)
Type of protection DIN 40 050	IP 32 (mounting with upward radius)
Environmental class as per VdS	II
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 87 x 34 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

043060.17 Piezo indoor siren, BUS-1 connection

NEW



VdS **Approval** **G100022 (IDT), Class C; VSÖ W 070627/02 E**

Same as article 043065.17, but activation takes place via BUS-1.

Technical Data

Colour	trafficwhite, similar to RAL 9016

043050 Module for indoor siren, BUS-1



VdS **Approval** **G194037 (IDT), Class C**

This module allows indoor events to be detected acoustically. The module is equipped with a sabotage contact.

Its specific feature is the volume that can be set to five different levels. Mechanically and optically, this module fits in with the operating and display panels of the product series 012600. The basic housing is not included in the delivery.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Quiescent current	500 µA
Active with 60 dBA	4 mA
Active with 95 dBA	80 mA
Loudness level	60 to 95 dBA
Dimensions (W x H x D)	79 x 115 x 50 mm (with housing 012600)
Colour	greywhite, similar to RAL 9002

Accessories:

012600	Surface-mounted basic housing for 1 module
012601	Flush-mounted basic housing for 1 module
012415	Flush-mounted housing for 012601
012612	Dummy module for basic housing

012600 Surface-mounted basic housing for 1 module



The wiring is done directly on the modules to be used by means of soldered/plug-in connections.

Technical Data

Dimensions (W x H x D)	79 x 115 x 50 mm

012601 Flush-mounted basic housing for 1 module



The wiring is done directly on the modules to be used by means of soldered/plug-in connections.

Technical Data

Dimensions frame (W x H x D)	109 x 145 mm
Dimensions (W x H x D)	79 x 115 x 50 mm

012612 Dummy module for basic housing



012415 Flush-mounted housing for 012601



Technical Data

Material	1 mm thick zinc-coated sheet steel
Dimensions (W x H x D)	96 x 123 x 78 mm

120015 Electronic indoor siren



VdS **Approval** **G197065 (IDT), Class C**

Technical Data

Operating voltage	9 to 14,2 V DC
Frequency	2500-3000 Hz
Sound level	104 dB
Current consumption	130 mA / 12 V DC
Dimensions (W x H x D)	155 x 114 x 44 mm
Type of protection	IP 31
Material	plastic
Housing colour	white

043130 Electronic buzzer



Technical Data

Current consumption at 12 V DC	15 mA
Dimensions (W x H x D)	38 x 25 x 45 mm
Colour	white
Material	plastic

Optic alarm devices for external alarms

The optic alarm devices are used for local external alarm actuation. They may be activated without time limit. The flash lamps for outdoor use are available in different versions. Apart from the versions with red cap, lamps with yellow cap are also available. Also available are accessories for mounting, for example on poles or walls.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Current consumption at Unenn	< 400 mA
Frequency of flash	ca. 2 Hz
Environmental class as per VdS	IV
Type of protection DIN 40 050	IP 65
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	188 x 142 x 92 mm

042100 Optic alarm device, red



VdS **Approval** **G100033 (IDT), Class C**

Attractive alarm device with high signal effect in a plastic housing with sabotage monitoring. Its compact design, combined with its high signal effect, makes this alarm device suitable for universal use.

Technical Data

Colour	greywhite, similar to RAL 9002
Flash lamp cap colour	red

Sale of remainder while stock last.

042100.17 Optic alarm device, red

NEW



VdS **Approval** **G100033 (IDT), Class C**

Attractive alarm device with high signal effect in a plastic housing with sabotage monitoring. Its compact design, combined with its high signal effect, makes this alarm device suitable for universal use.

Technical Data

Colour	trafficwhite, similar to RAL 9016
Flash lamp coloured cap	red

042105 Optic alarm device, yellow



VdS **Approval** **G100033 (IDT), Class C**

Attractive alarm device with high signal effect in a plastic housing with sabotage monitoring. Its compact design, combined with its high signal effect, makes this alarm device suitable for universal use.

Technical Data

Colour	greywhite, similar to RAL 9002
Flash lamp cap colour	yellow

Sale of remainder while stock last.

042105.17 Optic alarm device, yellow

NEW



VdS **Approval** **G100033 (IDT), Class C**

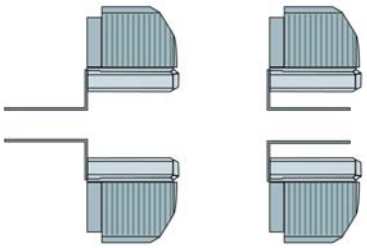
Attractive alarm device with high signal effect in a plastic housing with sabotage monitoring. Its compact design, combined with its high signal effect, makes this alarm device suitable for universal use.

Technical Data

Colour	trafficwhite, similar to RAL 9016
Flash lamp coloured cap	yellow

042120 Supporting bracket for alarm devices 042100/.17 and 042105/.17

Allows suspended or upright mounting of the alarm devices 042100 / 042100.17 and 042105 / 042105.17.



Mounting options

Optic alarm devices for internal alarms

Indoor blinking lights and parallel indicators have been constructed for indoor use. They are suitable, in particular, for signalling system states and also for pre-alarms and/or internal alarms. Apart from the traditional connection version, some of the alarm devices are also available with BUS connection technology for BUS-1 or BUS-2.

Technical Data	
Rated operating voltage	12 V DC
Operating voltage range	10 V to 15 V DC
Type of protection DIN 40 050	IP 32 (mounting with radius on top)
Environmental class as per VdS	II
Operating temperature range	- 5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	85 x 87 x 34 mm
Light range	red

042230 Indoor blinking light, conventional connection



VdS **Approval G199091 (IDT), Class C**

Compact modern blinking light in a plastic housing for indoor use.

With integrated cover contact for sabotage monitoring. Surface mounted and flush mounted wiring possible. Two signal types can be programmed as display mode: Permanent signal or cyclic signal. Activation is effected by applying the operating voltage.

Technical Data	
Current consumption stand-by mode	0 mA
Current consumption alarm	10 mA
Colour of housing	greywhite, similar to RAL 9002

Sale of remainder while stock last.

042230.17 Indoor blinking light, conventional connection

NEW



VdS **Approval G199091 (IDT), Class C**

Technical Data	
Colour of housing	trafficwhite, similar to RAL 9016

042235 Indoor blinking light, BUS-1 connection



VdS **Approval** **G199092 (IDT), Class C**

Compact modern blinking light in a plastic housing for indoor use.

With integrated cover contact for sabotage monitoring. Surface mounted and flush mounted wiring possible. Two signal types can be programmed as display mode: Permanent signal or cyclic signal. They are activated via BUS-1.

Technical Data

Current consumption stand-by mode	typ. 8.5 mA
Current consumption alarm	typ 19 mA
Colour of housing	greywhite, similar to RAL 9002

Sale of remainder while stock last.

042235.17 Indoor blinking light, BUS-1 connection

NEW



VdS **Approval** **G199092 (IDT), Class C**

Technical Data

Colour of housing	trafficwhite, similar to RAL 9016

048720 Compact alarm in a plastic housing



VdS **Approval** **G100067 (IDT), Class C; VSÖ W 031210/83 E**

Its compact and timeless design, combined with its high signal effect and mounting flexibility, makes this combined alarm device suitable for universal use. Provided with sabotage contact, reach-through protection and tear-off protection, connection module with monitoring circuit for the integrated loudspeaker and the flashing lamp.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	10 V to 15 V DC
Current consumption beacon at U_{NENN}	< 400 mA
Current consumptionat Pressure chamber loudspeaker at U_{NENN}	typ, 250 mA
Frequency of flash	ca. 2 Hz
Loudness level	>100 dB(A)
Environmental class as per VdS	IV
Type of protection DIN 40 050	IP 44
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-25 °C to +70 °C
Dimensions (W x H x D)	185 x 315 x 98 mm
Colour of housing	greywhite, similar to RAL 9002
Light range	red

For use with intrusion detection control panels of the HB/MB series.

Sale of remainder while stock last.

048720.17 Compact alarm in a plastic housing

NEW



VdS **Approval** **G100067 (IDT), Class C; VSÖ W 031210/83 E**

Technical Data

Colour	trafficwhite, similar to RAL 9016
Flash lamp coloured cap	red

160455.10 Optic/Acoustic compact alarm device P2500



VdS **Approval G195078 (IDT), Class C**

Impact-resistant plastic housing with sheet metal lining. Activation is effected by applying the operating voltage.

Technical Data

Operating voltage	12 V DC resp. 24 V DC
Voltage range	10,2 - 13,8 V DC resp. 20,4 bis 27,6 V DC
Current consumption	alarm signal ca. 330 mA (12 V), 200 mA (24 V); alarm signal fire ca. 370 mA (12 V), 210 mA (24 V); technical alarm signal ca. 200 mA (12 V), ca. 110 mA (24 V)
Frequency	alarm signal ca. 400 - 1200 Hz (increasing 1,6 sec.); alarm signal fire ca. 1200 - 500 Hz (falling 1,0 sec.); technical alarm signal ca. 820 Hz (on: 0,75 sec./off: 0,75 sec.)
Signal flashing lamp	ca. 200 mA (12 V); ca. 135 mA (24 V)
Frequency of flash	ca. 1 Hz (12 V); ca. 1,2 Hz (24 V)
Loudness level	100 dB(A)/1 m
Sound pressure	105 dB(A)
Environmental class as per VdS	IV
Type of protection DIN 40 050	IP 34
Material	plastic
Weight	1,2 kg
Dimensions (W x H x D)	200 x 110 x 65 mm
Colour	greywhite, similar to RAL 9002

Monitoring resistance 4.7 kOhm and 10 kOhm integrated.
Must be controlled via a relay.
No monitoring of pressure chamber loudspeaker.

Installation equipment.

120016 Electronic indoor siren with integrated flashing light



VdS **Approval G197066 (IDT), Class C**

Technical Data

Operating voltage	9 V DC to 14,2 V DC
Current consumption sirene	130 mA
Current consumption beacon	110 mA
Frequency of flash	1 Hz
Frequency	2500-3000 Hz
Sound level	104 dB(A)
Type of protection according to DIN 40 050	IP 31
Dimensions (W x H x D)	155 x 114 x 44 mm
Housing	plastic
Colour	white

Doorguard - Monitoring of Emergency Exit Doors

Performance Features

- Monitoring of opening of emergency door exits
- Indication of operating state via LED
- Indication of triggering and “Door open” state
- Input for release contact (door contact)
- Input for tamper switch
- Installation possibility of a half cylinder as per DIN 18252
- Alarm signalling device for remote mounting - separate from the operating unit (e.g. above the door)
- Optical alarm signalling device with highper-formance LEDs
- Acoustical alarm signalling device with piezo-electronic alarm device
- Resonance-optimized housing for extremely loud radiation of alarm tone on all sides
- Cover and tear-off monitoring of alarm signalling device and operating unit
- External operating input for remote operating module (key-operated switch)
- VdS approval Doorguard for MB panels BUS-2

The comprehensive solution for all applications

The permanent protection of buildings against entry by unauthorized persons as well as the uncontrolled exit of a zone are basically contrary to the legal requirements that demand that it must also be possible to exit a building without hindrance in the event of an emergency.

The Doorguard that is now available on the market is a product that not only fulfils both these requirements but also has an attractive design and is flexible in use.

The units enable simultaneous control and monitoring of the opening of emergency exit doors.

The Doorguard is available in two different versions with varying connection technology:

- Doorguard for MB panels BUS-2

- Doorguard hardwired version

The Doorguard for MB panels BUS-2 is suitable for

integrating into BUS-2 networks with connection to an intruder alarm control panel.

The Doorguard hardwired version is intended for self-sufficient applications solely for monitoring emergency exit doors without connection to an IACP.

The units can be easily installed on site. The operating unit and alarm signalling device can be installed either separately or as a combined unit to meet the specific requirements of the building or application.

The door contacts (release contacts) at the doors that require monitoring trigger the alarm. In the event of unauthorized opening of the emergency exit door, an acoustical and optical signal is emitted on site.

Authorized opening

If the emergency exit door requires opening by an authorized person, the monitoring of this door can be deactivated by releasing. This enables authorized persons to enter the building through the door once or several times depending on the programming without triggering a signal.

The release of the emergency exit door is indicated at the operating unit via the green LED “Operating state”. Release is possible directly at the unit via the half cylinder and/or the reader (for IK2 / IK3 ID data carriers) that is integrated in the Doorguard for MB panels BUS-2.

041450 Doorguard-Plus BUS-2



VdS **Approval G110068 (IDT), Class C**

System device for monitoring of emergency exit doors. With integrated IJ2/IK3 reader, BUS-2 connection.

The Doorguard-Plus BUS-2 communicates with the corresponding intruder alarm control panel (561-MB24/48/100) via the BUS-2. Programming of system data and projects as well as management of authorization data for entering the door is carried out via the programming software “WINFEM Advanced” of the intruder alarm control panel. Voltage for the Doorguard- Plus BUS-2 is supplied via the BUS-2 connection, thus providing an optimum integration solution.

All functions and connections that are required for monitoring emergency exit doors are contained in this unit.

All messages are transmitted via the BUS-2 to the intruder alarm control panel. Release is possible directly at the Doorguard-Plus BUS-2 via the half cylinder and/or the integrated reader (for IK2 / IK3 ID data carrier). Remote release (activation/inactivation) is possible via every operating keypad with disabling function and display unit that is connected to the BUS-2 and via the operating function “Disable detector groups” or a graphic user interface.

The total number of Doorguard-Plus BUS-2 units that can be used depends on the possible number of switching devices of the IACP that is being used. Remote release via the software program package IQ MultiAccess/IQ SystemControl is also possible.

Performance Features

- Input for door strike contact (e. g. door monitoring via latch contact)
- Input, erasable for self saving sensors
- Integrated reader for IK2/IK3 ID dta carriers
- Operation possible via:
  - Key switch (profile half cylinder)
  - Integrated reader (IK2/IK3)
  - Key switch and integrated reader
  - Operating units of an IACP
- Operation on BUS-2 of the 561MB-24/48/100 intruder alarm control panel series
- To be programmed as integrated bus user via WINFEM Advanced
- Integrated within the room/time zone model of the intruder alarm control panel
- Use of operating units via BUS-2 of intruder alarm control panels as
  - Operating and display tableau (e. g. item no. 012542 /.17 or item no. 012577.10) for switching active and inactive
  - or display tableau (e. g. item no. 012548 /.17)

Technical Data

Operating unit	
Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Current consumption	< 15 mA
Detector group voltage	8 V DC
Detector group end-of-line resistor	12k1 ±40%
Detector group for tamper evaluation	12k1 ±40%
Output for acoustical alarm signalling	< 40 mA (active low)
Output for optical alarm signalling	< 40 mA (active low)
Transponder reader	for IK2- and IK3 data carriers
Half cylinder as per DIN 18252	Standard dimension A = 30 mm, A = 35 mm possible
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 40
Dimensions operating unit (W x H x D)	110 x 140 x 53 mm
Alarm signaling device	
Operating voltage range	9 V DC to 15 V DC
Current consumption sirene	
Interval tone	< 25 mA
Continuous tone	< 50 mA (BUS-2 device only)
Loudness level	ca. 100 dBA
Current consumption beacon	< 25 mA
LED - flash interval	ca. 1,5 Hz
Dimensions alarm signaling device (W x H x D)	110 x 103 x 53 mm
Housing colour	purewhite, similar to RAL 9010

Without half cylinder.

Accessories:

028032 Half cylinder

Sale of remainder while stock last.

041450.17 Doorguard-Plus BUS-2

NEW



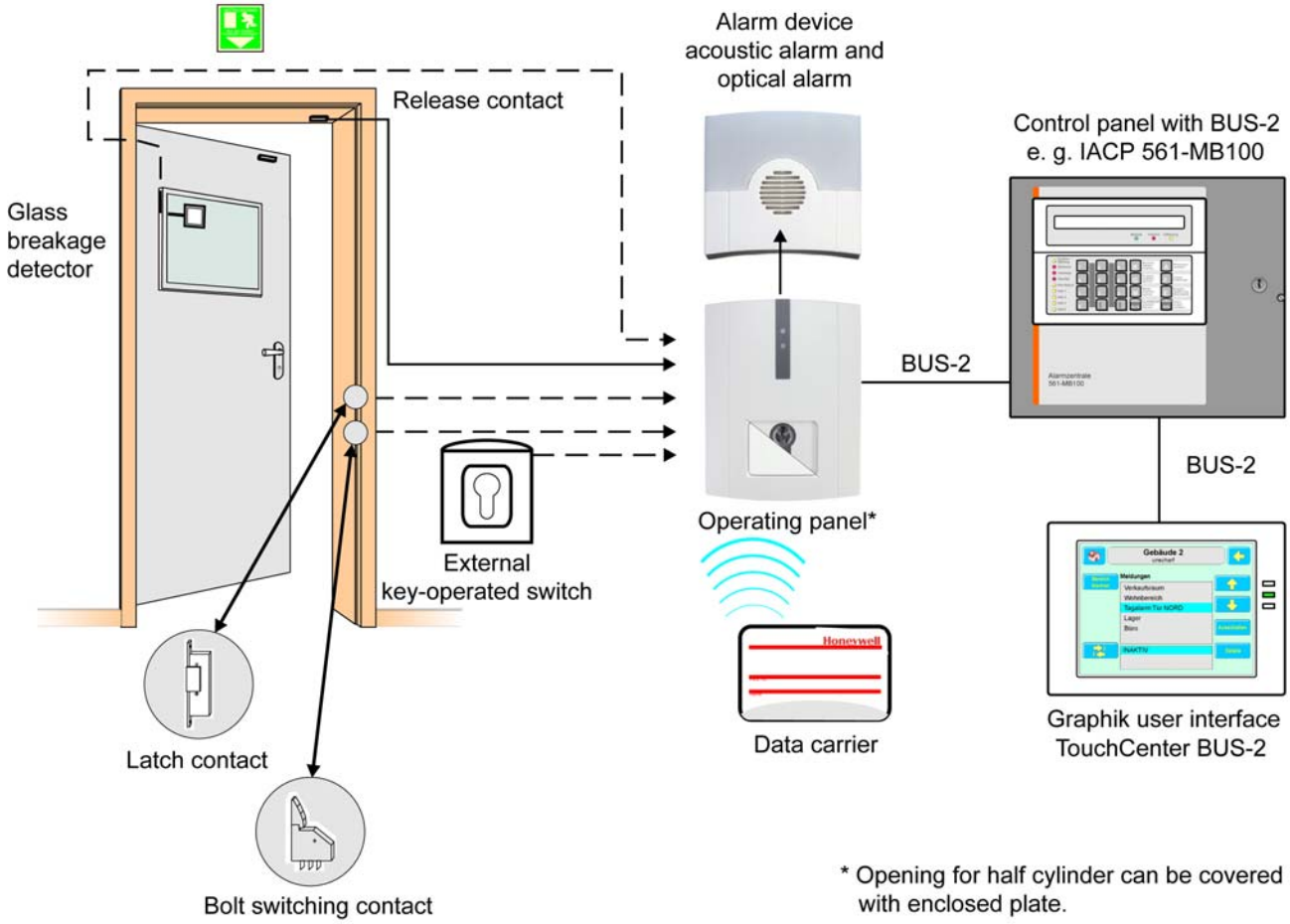
VdS **Approval G110068 (IDT), Class C**

Same as 041450, but colour trafficwhite.

Technical Data

Housing colour	trafficwhite, similar to RAL 9016

Application example



041460 Doorguard-Plus conventional



Performance Features

- Integrated power saving power supply unit for 230 V AC with low power input
- Operation possible via profile half cylinder and/or via 16-DG blocking and display module
- Stand alone solution for an emergency door
- Master/slave operation for linking of up to 16 door guard plus systems with:
  - one 16-DG blocking and display module (item no. 012542 /.17) as operating and display tableau
  - or one 16-DG display module (item no. 012548 /.17) as display tableau

System device for monitoring of emergency exit doors. Conventional connection technique.

This system unit combines all the functions that enable the self-sufficient monitoring of emergency exit doors.

Contrary to the BUS-2 device, max. 16 Doorguard hardwired versions units can be connected via a proprietary Bus system. A 16-DG disable and display keypad (Item no. 012542 /.17) or a 16-DG display module (Item no. 012548 /.17) can be used for remote individual indication of the networked system units as a remote indicating panel (Master/slave operation).

The modules have an optical indicator (2 LEDs) for every connected Doorguard as well as a key (only Item no. 012542 /.17) for remote release (inactivation/activation).

An acoustical signal (collective alarm) is also emitted when the emergency exit door is opened by an unauthorized person.

Technical Data

Operating unit	
Mains voltage	230 V AC
Frequency	50 Hz
Power consumption standby	2,1 VA
Detector group voltage	8 V DC
Detector group end-of-line resistor	12k1 ±40%
Detector group for tamper evaluation	12k1 ±40%
Output for acoustical alarm signalling	< 40 mA (active low)
Output for optical alarm signalling	< 40 mA (active low)
Half cylinder as per DIN 18252	Dimension A = 30 mm, A = 35 mm possible
Operating temperature range	-5 °C to +45 °C
Storage temperature range	-25 °C to +70 °C
Environmental class as per VdS	II
Type of protection DIN 40 050	IP 40
Dimensions operating unit (W x H x D)	110 x 140 x 53 mm
Alarm signaling device	
Operating voltage range	9 V DC to 15 V DC
Current consumption sirene	< 25 mA
Loudness level	ca. 100 dBA
Current consumption beacon	< 25 mA
Dimensions alarm signaling device (W x H x D)	110 x 103 x 53 mm
Housing colour	purewhite, similar to RAL 9010

Without half cylinder.

Accessories:

028032	Half cylinder
012542 /.17	16-detector group disable and display module
012548 /.17	16-detector group display module

Sale of remainder while stock last.

041460.17 Doorguard-Plus conventional

NEW

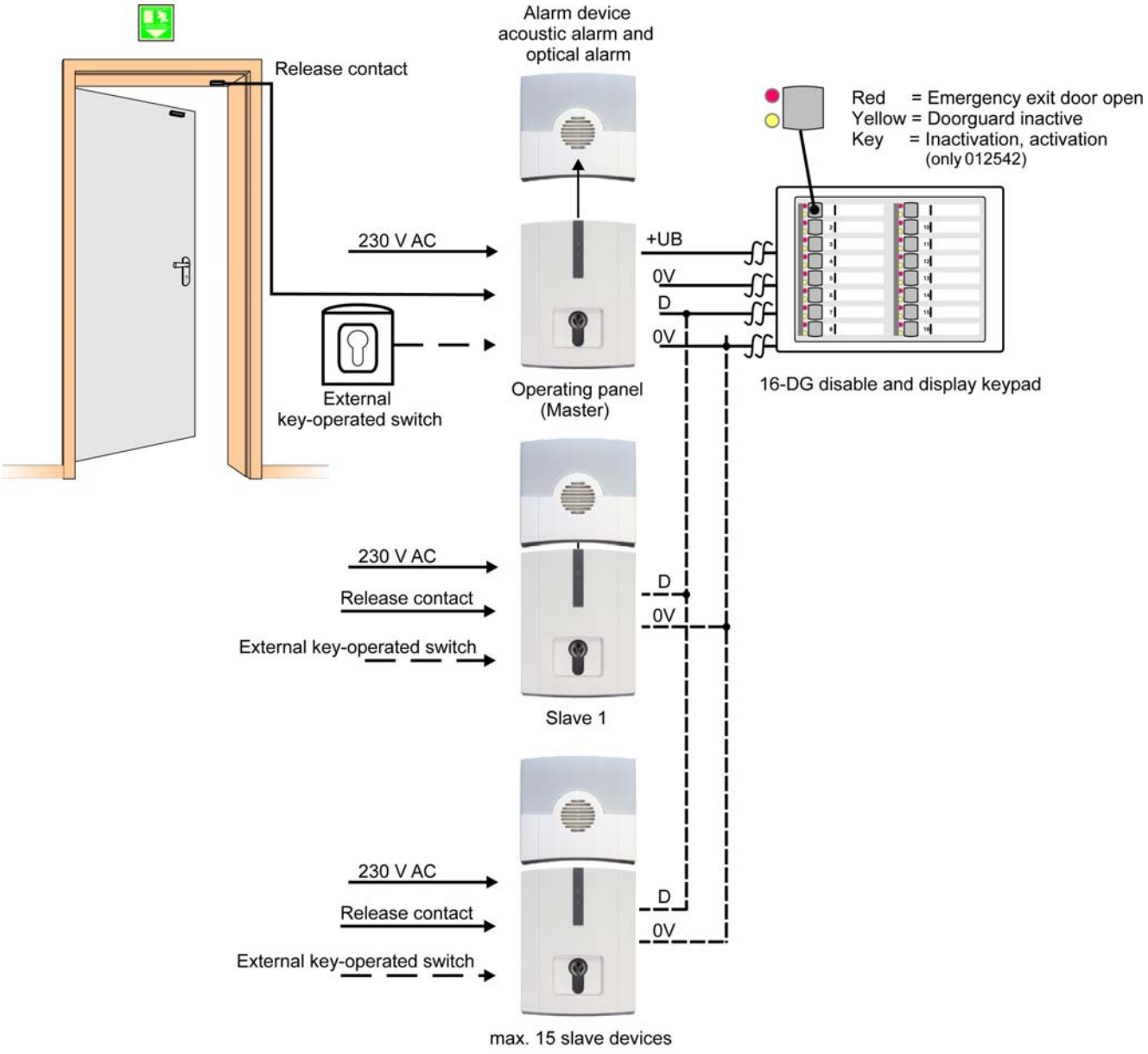


Same as 041460, but colour trafficwhite.

Technical Data

Housing colour	trafficwhite, similar to RAL 9016

Application example



041411 Day alarm BUS-1



The day alarm detector is used for monitoring two emergency exit doors or one emergency exit door having two door leaves.

The device can simply be mounted on-site. It is connected via the BUS-1 of a suitable hazard detection system. The criterion for triggering an alarm are the door contacts at the doors to be monitored.

Performance Features

- Monitors the opening of emergency exit doors
- Displays the “Disconnection” operating state by means of a yellow LED
- 2 door contact connections
- Integrated acoustic alarm signalling device (buzzer)
- Housing cover tamper monitored
- Semiconductor outputs for “Alarm” and “Disconnection operating state”
- For use on intrusion detection systems with BUS-1 technology

Technical Data

Rated operating voltage	12 V DC (via BUS-1)
Operating voltage range	10.5 V DC to 15 V DC
Current consumption in no-load	15 mA
Current consumption alarm	100 mA
Loudness level of internal buzzer	94 dB(A)
Output switch off	12 V DC / 40 mA
Output external buzzer	12 V DC / 80 mA
Operating temperature range	-5 °C to +50 °C
Storage temperature range	-20 °C to +70 °C
Type of protection according to DIN 40 050	IP 30
Environmental class as per VdS	II
Dimensions (W x H x D)	200 x 146 x 55 mm



Installation material

- Distributors
- Cables and cable accessories
- Relays
- Sealing material
- Housings

Flush-mounted box distributor

Fits standardised switch boxes Ø 58 mm or hollow-wall boxes Ø 68 mm, tamper-proofed plastic cover with screw-on cap and film seal.

Technical Data

Environmental class as per VdS	II (VdS 2110)
Type of protection DIN 40 050	IP 40
Screw hole spacing	60 and 67 mm
Dimensions cover (Ø x D)	84,5 x 2 mm
Colour	purewhite, similar to RAL 9010

050162 Flush-mounted box distributor, soldering technology



VdS **Approval** **G100058 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 22+2-pole
Headroom	ca. 19mm

050163 Flush-mounted box distributor, IDC method of termination



VdS **Approval** **G100060 (IDT), Class C**

Technical Data

Connecting technology	LSA-plus, 22+2-pole
Wire gauge	0.40 - 0.63mm
Outside diameter	0.70 - 1.10mm
Headroom	ca. 22mm
Occupancy	2 wires for each contact

2 wires having the same structure - solid or lead (lead structure 7 x 0.12 ... 7 x 0.32 mm CuSn) can be connected per contact.

050164 Flush-mounted box distributor, spring terminal technology



VdS **Approval** **G100059 (IDT), Class C**

Technical Data

Connecting technology	LSA-plus, 22+2-pole
Wire gauge	0.40 - 0.63mm
Outside diameter	0.70 - 1.10mm
Headroom	ca. 22mm
Occupancy	2 wires for each contact

2 wires having the same structure - solid or lead can be connected per contact.

050165 Cover for flush-mounted distributor



Technical Data

Material	plastic
Dimensions (W x H x D)	85 x 85 x 5 mm

Fits flush-mounted distributors: 050162, 050163 and 050164.
When this cover is used, the flush-mounted distributors lose their VdS approval.

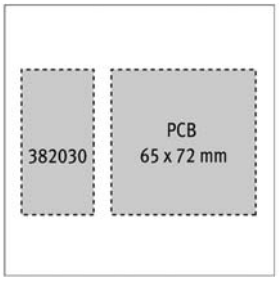
5 pieces

Modular plastic distributors

A product range that provides suitable components for each application. The variation options including housings and distributor inserts make this distributor product range the ideal instrument of installation technology.

120240 Plastic distributor box VVD 230 (surface mounted)





VdS **Approval** **Class C**

Small distributor box, surface mounted design, for housing one pcb of the dimensions 65 x 72 mm and the 10-pin distributor terminal 382030.

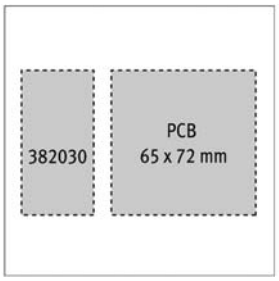
Technical Data

Type of protection	IP 40
Housing material	ABS
Dimensions (W x H x D)	125 x 125 x 35 mm
Colour	white, similar to RAL 9003

The VdS approval applies in connection with the distributor pcb 382031.

120244 Plastic distributor box VVD 230 (flush mounted)





VdS **Approval** **Class C**

Small distributor box, surface mounted design, for housing one pcb of the dimensions 65 x 72 mm and the 10-pin distributor terminal 382030.

Technical Data

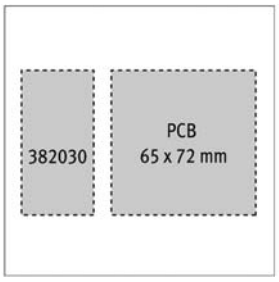
Type of protection	IP 40
Housing material	ABS
Dimensions (W x H x D)	125 x 125 x 35 mm
Cover	135 x 135 x 1,5 mm
Housing colour	white, similar to RAL 9003

The VdS approval applies in connection with the distributor pcb 382031.

Phase-out date 31.12.2013.

120242 Plastic distributor box VVD 230K





VdS **Approval** **Class C**

Small distributor housing, including cable link, for housing one pcb of the dimensions 65 x 72 mm and the 10-pin distributor terminal 382030, surface mounted design.

Technical Data

Type of protection	IP 40
Dimensions (W x H x D)	125 x 125 x 35 mm
Housing colour	white, similar to RAL 9003

The VdS approval applies in connection with the distributor pcb 382031.

Including cable link, 6 mm.

Phase-out date 31.12.2013.

382030 10-pin distributor without cover contact



For mounting in housings 788600, 788601, 788650.10, 788651.10, 120240 to 120244.

Technical Data

Connecting technology	soldered terminal, 10-pin
Dimensions (W x D)	72 x 13 mm

Phase-out date 31.12.2013.

382031 42-pin distributor with cover contact



VdS **Approval** **G103027 (IDT), Class C**

For mounting in housings 788600, 788601, 788650.10, 788651.10, 120240 to 120244.

Technical Data

Connecting technology	soldered terminal, 42-pin
Dimensions (W x D)	65 x 72 mm

The VdS approval applies in connection with the above housings.

381156 92-pin distributor with cover contact



VdS **Approval** **G103029 (IDT), Class C**

For mounting in housings 788600, 788601, 788650.10, 788651.10.

Technical Data

Connecting technology	soldered terminal, 92-pin
Dimensions (W x D)	150 x 82 mm

The VdS approval applies in connection with the above housings.

Phase-out date 31.12.2013.

050065 Surface mounted plastic distributor box



VdS **Approval** **G189103 (IDT), Class C**

For adaption of distributor PCB 050065.10.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050065.17 Surface mounted plastic distributor box

NEW



VdS **Approval** **G189103 (IDT), Class C**

For adaption of distributor PCB 050065.10.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	trafficwhite, similar to RAL 9016

050066 Flush mounted plastic distributor box

VdS **Approval** **G189103 (IDT), Class C**

For adaption of distributor PCB 050065.10.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	130 x 130 x 31 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050066.17 Flush mounted plastic distributor box

NEW

VdS **Approval** **G189103 (IDT), Class C**

For adaption of distributor PCB 050065.10.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	130 x 130 x 31mm
Colour	trafficwhite, similar to RAL 9016

050067 Flush mounted housing for articles 050066



VdS **Approval** **G189103 (IDT), Class C**

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050067.17 Flush mounted housing for article 050066.17

NEW

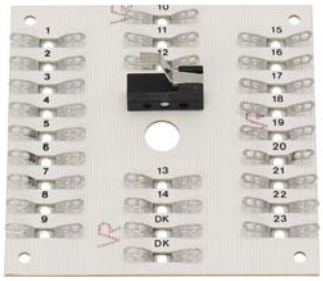


VdS **Approval** **G189103 (IDT), Class C**

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	trafficwhite, similar to RAL 9016

050065.10 Distributor board containing 23 double soldering tabs and 1 cover contact



VdS **Approval** **G189103 (IDT), Class C**

For integration in distributor boxes 050065, 050065.17, 050066, 050066.17.

Technical Data

Housing material	plastic
Dimensions (W x H x D)	118 x 118 x 31 mm
Colour	greywhite, similar to RAL 9002

Small distributors

050000 8-pin surface-mounted distributor without cover contact



Technical Data

Connecting technology	solder/solder, 8-pin
Housing material	plastic
Environmental class as per VdS	II
Dimensions (W x H x D)	38 x 84 x 19 mm
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

050000.17 8-pin surface-mounted distributor without cover contact

NEW



Technical Data

Colour	trafficwhite, similar to RAL 9016

050002 6-pin surface-mounted distributor with cover contact



VdS **Approval** **G193531 (IDT), Class B**

Technical Data

Connecting technology	solder/solder, 6-pin
Housing material	plastic
Environmental class as per VdS	II
Dimensions (W x H x D)	38 x 84 x 19 mm
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

050002.17 6-pin surface-mounted distributor with cover contact

NEW



VdS **Approval** **G193531 (IDT), Class B**

Technical Data

Colour	trafficwhite, similar to RAL 9016

050035 Alarm glass terminal box



VdS **Approval** **G186043 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 6-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	38 x 45 x 16 mm
Colour	purewhite, similar to RAL 9010

Sale of remainder while stock last.

050035.17 Alarm glass terminal box

NEW



VdS **Approval** **G186043 (IDT), Class C**

Technical Data

Colour	trafficwhite, similar to RAL 9016

This terminal box is suitable especially for connecting alarm glasses. The alarm wires of the glass pane are inserted into the housing from behind.
Cover contact existing.

Plastic distributors

050030 Solder distribution terminal, 16-pin



VdS **Approval** **G193075 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	60 x 45 x 25 mm
Housing colour	white

050025 16-pin surface-mounted distributor with cover contact



VdS **Approval** **G195030 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	70 x 84 x 20 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050025.17 16-pin surface-mounted distributor with cover contact

NEW



VdS **Approval** **G195030 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	70 x 84 x 20 mm
Colour	trafficwhite, similar to RAL 9016

160705 Surface mounted plastic distributor, 20-pin



VdS **Approval** **G187002 (IDT), Class C**

Small distributor with cover contact.

Technical Data

Connecting technology	solder/solder, 20-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	85 x 85 x 26 mm
Colour	white

120211 Surface mounted plastic distributor VVD 215, 30-pin



VdS **Approval** **G187055 (IDT), Class C**

Small distributor with cover contact.

Technical Data

Connecting technology	solder/solder, 30-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	white

120213 Plastic distributor VVD 215K, 30-pin



VdS **Approval** **G187054 (IDT), Class C**

Small distributor with cover contact. With plastic-jacked cable link and fixing piece.

Technical Data

Connecting technology	solder/solder, 30-pin
Length cabel crossover	ca. 300 mm
Dimensions cable transfer (W x H x D)	Ø inside ca. 8 mm; Ø outside ca. 11 mm
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	white

cable link.

120215 Surface mounted plastic distributor VVD 320, 40-pin



VdS **Approval** **G187003 (IDT), Class C**

Small distributor with cover contact.

Technical Data

Connecting technology	solder/solder, 40-pin
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	150 x 100 x 36 mm
Housing colour	white

120250 Distributor LSA 16 w



VdS **Approval** **G193075 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 8
Environmental class as per VdS	II
Housing material	plastic
Dimensions (W x H x D)	60 x 45 x 25 mm
Housing colour	white

120252 Distributor LSA 32 w



VdS **Approval** **G187002 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 16
Environmental class as per VdS	II
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	white

120253 Distributor LSA 32 b



VdS **Approval** **G187002 (IDT), Class C**

Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 16
Environmental class as per VdS	II
Dimensions (W x H x D)	85 x 85 x 26 mm
Housing colour	brown

120254 Distributor LSA 64 w



VdS **Approval** **G187003 (IDT), Class C**

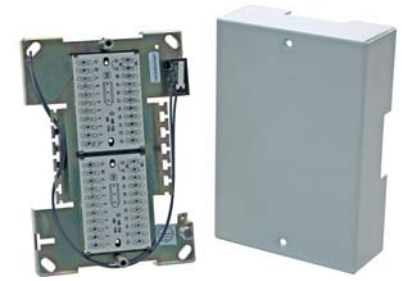
Plastic distributor in time-saving connection technology via the IDC method of termination including cover contact.

Technical Data

No. of LSA-Plus connections	2 x 32
Environmental class as per VdS	II
Dimensions (W x H x D)	150 x 100 x 36 mm
Housing colour	white

Metal Distributors

050022 Metal distributor, 44-pin

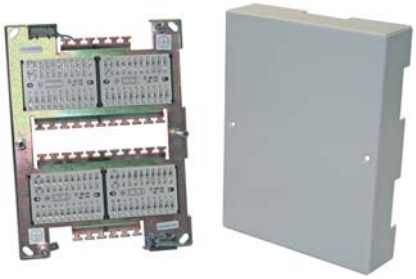


VdS **Approval** **G199042 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 44-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	Sheet steel, powder-coated
Dimensions (W x H x D)	152 x 105 x 43 mm
Housing colour	purewhite, similar to RAL 9010

050023 Metal distributor, 88-pin

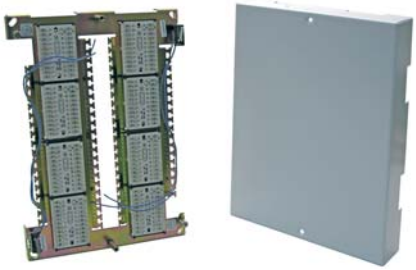


VdS **Approval** **G199043 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 88-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	Sheet steel, powder coated
Dimensions (W x H x D)	198 x 152 x 43 mm
Housing colour	purewhite, similar to RAL 9010

050024 Metal distributor, 176-pin



VdS **Approval** **G199045 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 176-pin
Tamper switch	NOC
Environmental class as per VdS	II
Housing material	Sheet steel, powder coated
Dimensions (W x H x D)	280 x 199 x 43 mm
Housing colour	purewhite, similar to RAL 9010

050020 Distributor, 16-pin



VdS **Approval** **G17358 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 16-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	130 x 130 x 45 mm
Housing colour	greywhite, similar to RAL 9002

050021 Distributor, 32-pin



VdS **Approval** **G17310 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 32-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	215 x 130 x 45 mm
Housing colour	greywhite, similar to RAL 9002

050060 Distributor, 48-pin



VdS **Approval** **G185072 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 48-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	350 x 186 x 60 mm
Housing colour	greywhite, similar to RAL 9002

050034 Distributor, 64-pin



VdS **Approval** **G184086 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 64-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	215 x 215 x 45 mm
Housing colour	greywhite, similar to RAL 9002

050061 Distributor, 96-pin



VdS **Approval** **G185071 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 96-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	350 x 300 x 60 mm
Housing colour	greywhite, similar to RAL 9002

050062 Distributor, 160-pin



VdS **Approval** **G188088 (IDT), Class C**

Technical Data

Connecting technology	solder/solder, 160-pin
Environmental class as per VdS	II
Dimensions (W x H x D)	500 x 300 x 60 mm
Housing colour	greywhite, similar to RAL 9002

050019 Distributor block, 16-pin



Technical Data

Connecting technology	solder/solder, 16-pin
Dimensions (W x H x D)	60 x 72 x 19 mm

050095 Plug-in labelling field for distributor block



160204 Surface mounted distributor VVD 300, 48-pin



VdS **Approval** **G182038 (IDT), Class C**

Distributor with cover contact, sheet steel housing.

Technical Data

Connecting technology	solder/solder, 48-pin
Environmental class as per VdS	II
Housing	Sheet steel
Dimensions (W x H x D)	155 x 145 x 55 mm
Colour	light-grey, similar to RAL 7032

160206 Surface mounted distributor VVD 400, 84-pin



VdS **Approval** **G182039 (IDT), Class C**

Distributor with cover contact, sheet steel housing.

Technical Data

Connecting technology	solder/solder, 84-pin
Environmental class as per VdS	II
Housing	Sheet steel
Dimensions (W x H x D)	285 x 155 x 55mm
Colour	light-grey, similar to RAL 7032

160209 Surface-mounted distributor VVD 600



VdS **Approval** **G182041 (IDT), Class C**

This model is delivered as kit (cover contact already mounted in the distributor).

Depending on the requirements, the distributor terminals may have to be ordered separately.

Up to 10 terminal strips of 20 double-wires each (180012) or 6 distributor terminals of 100 pins each (180844) can be mounted.

Technical Data

Environmental class as per VdS	II
Dimensions (W x H x D)	380 x 405 x 80 mm
Housing material	Sheet steel
Housing colour	light-grey, similar to RAL 7032

Accessories for VVD 500 and 600

180844 **100-pin distributor terminal**



180012 **Screw-on strip**



Screw-on solder strip for max. 20 double-wires (DW).

Cable links

050223 **Cable link type II, white**



Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	30 cm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050223.17 **Cable link type II, white**

NEW



Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 6 mm
Length	30 cm
Colour	trafficwhite, similar to RAL 9016

050233 **Cable link type II, brown**



Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	30 cm
Colour	brown, similar to RAL 8017

Metal protective tube

050226 Metal protective tube type II, white



Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	10 m
Colour	greywhite, similar to RAL 9002

050236 Metal protective tube type II, brown



Technical Data

Dimensions (Ø)	outside: 10 mm, inside: 7 mm
Length	10 m
Colour	brown, similar to RAL 8017

050205 Fixing caps for metal protective tube type II, white



Technical Data

Dimensions (Ø)	outside: 10 mm
Colour	greywhite, similar to RAL 9002

Sale of remainder while stock last.

050205.17 Fixing caps for metal protective tube type II, white

NEW



Technical Data

Dimensions (Ø)	outside: 10 mm
Colour	trafficwhite, similar to RAL 9016

050206 Fixing caps for metal protective tube type II, brown



Technical Data

Dimensions (Ø)	outside: 10 mm
Colour	brown, similar to RAL 8017

050213 Protective sleeve for metal protective tube type II, white



Technical Data

Dimensions (Ø)	7/6 mm
Colour	greywhite, similar to RAL 9002

050250 Concealed cable link, long



The concealed cable link with mounting box can be inserted into metal or plastic. In connection with the mounting aid included in the delivery, a quick and simple installation is also possible in wood.

No cumbersome and time-consuming processing using a firm chisel and file is necessary.

Technical Data

Dimensions (W x H x D)	24 x 480 x 17 mm
Angle of the doorway	max. 180°
Center of rotation	max. 36 mm
Inner diameter	10 mm

050251 Concealed cable link, short



The concealed cable link with mounting box can be inserted into metal or plastic. In connection with the mounting aid included in the delivery, a quick and simple installation is also possible in wood.

No cumbersome and time-consuming processing using a firm chisel and file is necessary.

Technical Data

Dimensions (W x H x D)	24 x 260 x 17 mm
Angle of the doorway	max. 180°
Center of rotation	max. 18 mm
Inner diameter	10 mm

050252 Concealed cable link, narrow



The concealed cable link with mounting box can be inserted into metal or plastic. In connection with the mounting aid included in the delivery, a quick and simple installation is also possible in wood.

No cumbersome and time-consuming processing using a firm chisel and file is necessary.

This narrow design of the cable link is suitable in particular for mounting into doors with standard rebate according to DIN 18101.

Technical Data

Dimensions (W x H x D)	20 x 382 x 15 mm
Angle of the doorway	max. 180°
Center of rotation	max. 18 mm
Inner diameter	8 mm

050260 Concealed cable link, medium



Spiral without mounting box for use in hollow chamber profiles.

Technical Data

Dimensions (L)	241 mm
Angle of the doorway	max. 100°
Inner diameter	8 mm

050261 Concealed cable link, short



Spiral without mounting box for use in hollow chamber profiles.

Technical Data

Dimensions (L)	155 mm
Angle of the doorway	max. 100°
Inner diameter	10 mm

050262 Concealed cable link, long



Spiral without mounting box for use in hollow chamber profiles.

Technical Data

Dimensions (L)	370 mm
Angle of the doorway	max. 180°
Inner diameter	10 mm

050265 Miniature cable link



Miniature cable link fitted with end caps for mounting when cables in windows and doors are guided concealed. Owing to the small amount of space required, it can be mounted almost everywhere in the rebate zone.

Side-hung/bottom-hung windows retain their full function. On the one hand, concealed mounted has the advantage of increased security and, on the other, hardly any restrictions with respect to the opening angle.

Both flat-band (e.g. for alarm glass) and round cables can be inserted.

Technical Data

Dimensions (L)	191 mm
Cable diameter	4,9 mm

General accessories

050510 Mains interference suppression filter type 2KV3



The mains interference suppression filter is intended for later installation in all mains-operated devices in which problems due to HF power failure arise.

Technical Data

Rated voltage	120 V - 250 V AC
Rated current	max. 2 A
Mains frequency	50 - 60 Hz
Ambient temperature	-10 °C to + 40 °C
Pitch	60.4 mm
Dimensions (W x H x D)	52.6 x 46.0 x 23.1 mm (without flange)

Mains interference suppression filter and terminal block.

055260 Glass/metal gluing set



Loctite 319: Glue 5g, activator 4 ml.

032265 Silicone glue RTV

Multi-purpose one-component silicone sealing compound:
- specifically for industrial maintenance and repair work
- vulcanises at room temperature to give a viscous rubber
- excellent adhesion to a multitude of grounds
- remains permanently elastic from -50°C to +220°C
- resistant to ageing, UV and weather, resistant to chemical contacts

Technical Data

Content	90 ml

032266 Contact spray



For improving the acoustic coupling between sensor tester and glass pane.

Technical Data

Content	200 ml

032267 Glass/metal gluing set



Please use glue 032267 for intrusion detection system with VdS certificate.

24 ml of glue and 150 ml of curing agent.

055280 Fixing band for accumulators, dual lock



The flexible press lock is suitable for fastening and fixing accumulators according to European Standard EN Part 2 and VdS guidelines 2540 (impact and vibration).

4 double strips each 15 cm long

Solder plug-in strips

055111 2-pin solder plug-in strip



5 units

055112 3-pin solder plug-in strip



5 units

055113 4-pin solder plug-in strip



5 units

Phase-out date 31.12.2012.

055114 5-pin solder plug-in strip



5 units

Phase-out date 31.12.2012.

055115 6-pin solder plug-in strip

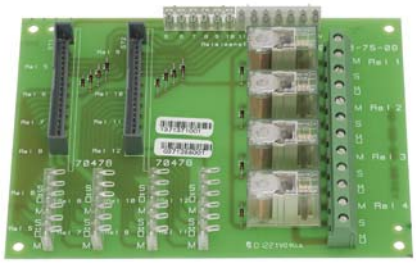


5 units

Phase-out date 31.12.2012.

Relay

013100.08 Relay extension module

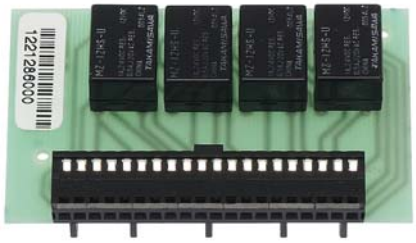


Module with 4 relays 250 V AC / 5 A and 2 slots for group relay card 070478.

Technical Data

Current consumption at 12 V DC	45 mA
Contact load	250 V AC / 5 A

070478 Group relay card



Plug-in card containing 4 relays 24 V DC/1 A for upgrading the relay extension module.

Also for use in HB/MB48 and MB100.10 to add 4 potential-free contacts.

Technical Data

Current consumption at 12 V DC	16 mA
Contact load	24 V DC /1 A (1 changeover contact)

070450 Additional relay 12 V DC



Small PCB with relay, connection terminals, two changeover contacts.

Technical Data

max. switching capacity	250 V AC / 5 A

Replacement circuit for loudspeaker

043117 Replacement card for loudspeaker monitoring



2-pin plug-in.

043119.02 Connection module for pressure chamber loudspeaker



Includes 6 kOhm resistor / 0 Ohm bridge.

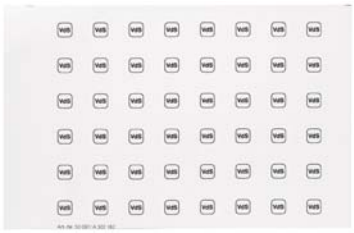
Sealing material

055131 Sealing screws, M4x6



1PU/TYPE 20 units

050097 VdS adhesive seal Ø 12 mm



1PU/TYPE 48 units

055105 Sealing caps



1PU/TYPE 10 units

055106 Press-in mandrel for sealing caps



Cable

055300 Cable drum 4 x 0.14, white



1PU/TYPE 100 meters per drum

Sale of remainder while stock last.

Technical Data

Colour	white

055300.17 Cable drum 4 x 0.14, trafficwhite

NEW



1PU/TYPE 100 meters per drum

Technical Data

Colour	trafficwhite, similar to RAL 9016

055301 Cable drum 4 x 0.14, brown



1PU/TYPE 100 meters per drum

050040 Additional housing ZG1



With screw-on cover and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	300 x 186 x 125 mm
Housing colour	greywhite, similar to RAL 9002

050046 Additional housing ZG2



With screw-on door and built-in cover contact.

Technical Data

Housing material	shett steel 2 mm, powder-coated
Dimensions (W x H x D)	350 x 300 x 152 mm
Housing colour	greywhite, similar to RAL 9002

050049 Additional housing ZG3.1



With screw-on door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	500 x 300 x 210 mm
Housing colour	greywhite, similar to RAL 9002

050050 Additional housing ZG3.2



With screw-on door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	500 x 300 x 260 mm
Housing colour	greywhite, similar to RAL 9002

050055 19” additional housing ZG4



12 HU, with lockable door and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	580 x 640 x 300 mm
Housing colour	greywhite, similar to RAL 9002

050057 19” additional housing ZG6



21 HU, lockable door with Plexiglas window and built-in cover contact.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	600 x 1035 x 300 mm
Housing colour	greywhite, similar to RAL 9002

Phase-out date 31.12.2013.

050189 19” additional housing ZG6.0.B



21 HU, lockable door with Plexiglas window and built-in cover contact.

The housing bottom is prepared inter alia for accommodating the 1024-F mounting plates.

Technical Data

Housing material	sheet steel 2 mm, powder-coated
Dimensions (W x H x D)	600 x 1035 x 335 mm
Housing colour	greywhite, similar to RAL 9002

Phase-out date 31.12.2013.

013119 19” dummy unit 3 HU



Dummy unit for 19” switch cabinet installation dimension, headroom 3 height units.

Technical Data

Material	sheet steel 2 mm, powder-coated
Colour	signal-grey, similar to RAL 7004

013118 19” dummy unit 6 HU



Dummy unit for 19” switch cabinet installation dimension, headroom 6 height units.

Technical Data

Material	sheet steel 2 mm, powder-coated
Colour	signal-grey, similar to RAL 7004

Notes



Stand-Alone Solutions

- ACD
- ACC
- Compact door code

Stand-Alone control device					
	ACD		ACC 50	ACCK 50	Door code compact device
	PIN-Code	Contactless			
Item no.	**022421.10**	**022420.10**	**026389.10**	**026384.10**	**025050**
VdS approval no.	**Z 199705**	**Z 199706**			
Class	**A**	**A**			
Door code, no. of digits	–	–	–	1 to 8	2 to 6
PIN, no. of digits	1 to 8	–	–	–	–
max. number codes	4	–	–	1	1 + 3
max. number of data carriers	–	99	99	99	–
Door release time	3, 8, 12, 20 sec.	3, 8, 12, 20 sec.	3, 8, 12, 20 sec.	3, 8, 12, 20 sec.	1 to 30 sec.
Door monitoring	–	–	0, 10, 20, 40 sec.	0, 10, 20, 40 sec.	x
Power supply	3 x 1,5 V Mignon cell	3 x 1,5 V Mignon cell	12 V DC via external power supply unit	12 V DC via external power supply unit	230 V
integrated reader	–	proX1 contactless / proximity	proX1 contactless / proximity	proX1 contactless / proximity	–
Permanent release	x	x	–	–	x
Time zones	1	1	2	2	1
Connections					
Door strike	–	–	1	1	1
Alarm relay	–	–	1	1	–
Clock timer	–	–	1	1	–
Printer	–	–	1	1	–
Reader / keypad	–	–	–	–	–

Legend: – = no / x = yes

022421.10 ACD pin code, 8 mm



VdS **Approval** **Z199705 (AC), Class A**

The ACD pin code (ACD=Access Control Door) works in connection with a commercially available door lock with a profile cylinder as autonomous access control. The pin codes can have 1 to 8 digits and are freely selectable by the customer. Up to four pin codes can be stored. A permanent release is also possible.

The mechanical function of the door lock still remains intact. From the inside, the door can still be opened as usual using the door handle. The external handle is free wheeling and is activated after entering a correct pin code.

The door lock release interval can be selected between 3, 8 12 and 20 seconds. The electronics makes sure that the door can only be opened once during the release time.

The power supply is provided by three AA cells. A necessary replacement of the batteries is indicated by an optic signal.

Performance Features

- 1- to 8-digit pin code
- Max. 4 codes
- Permanent release possible
- With reinforced mechanics

Technical Data

Current consumption in no-load operation	15 µA
Operating current consumption	8 mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Voltage supply	3 Mignon cells (1,5 V) Alkali/Mangan
Battery life expectancy	ca. 24 months (with 50 releases/day)
Backset	55 mm or bigger
Distance measure	72 mm
Door leaf thickness	38 - 60 mm
Follower measure	8 mm
Dimensions outer label (W x H x D)	65 x 289 x 27 mm
Dimensions inner label (W x H x D)	65 x 289 x 12 mm
Colour	greywhite, similar to RAL 9002

Suitable for DIN left-hand or DIN right-hand.
Not approved for fire barrier doors.

Phase-out date 31.12.2013.

022420.10 ACD contactless, 8 mm



VdS **Approval Z199706 (AC), Class A**

The ACD contactless (ACD=Access Control Door) works in connection with a commercially available door lock as autonomous access control. The ACD contactless manages up to 99 proximity ID cards. The access rights can be changed without problems using the programming card set.

The mechanical function of the door lock still remains intact. From the inside, the door can still be opened as usual using the door handle. The external handle is free wheeling and is activated after reading an authorised ID card. The door lock release interval can be selected between 3, 8 12 and 20 seconds. The electronics makes sure that the door can only be opened once during the release time.

The power supply is provided by three AA cells. A necessary replacement of the batteries is indicated by an optic signal. When ordering the ID card, please note that another three ID cards have to be ordered. They form the programming card set.

Performance Features

- Can manage up to 99 proximity ID cards
- Permanent release possible
- With reinforced mechanics

Technical Data

Current consumption in no-load operation	15 µA
Operating current consumption	30 mA
Environmental class as per VdS	II
Operating temperature range	-5 °C to +55 °C
Storage temperature range	-25 °C to +70 °C
Voltage supply	3 Mignon cells (1,5 V) Alkali/Mangan
Battery life expectancy	ca. 12 months (with 50 releases/day)
Reading range	ca. 7 cm
Backset	55 mm or bigger
Distance measure	72 mm
Door leaf thickness	38 - 60 mm
Follower measure	8 mm
Dimensions outer label (W x H x D)	65 x 289 x 27 mm
Dimensions inner label (W x H x D)	65 x 289 x 12 mm
Colour	greywhite, similar to RAL 9002

Suitable for DIN left-hand or DIN right-hand.
Not approved for fire barrier doors.

proX1 or proX2 or IK2 proximity ID cards and ID key rings can be used, which are listed in chapter “Readers/Keypads/ID carriers”.
Please note that the reading distance of ID key rings is somewhat lower than that of ID cards.
The programming card set for the ACC 50 is generated by the installer.
Normal cards e. g. 026370.00 can be defined as programming card set.
When ordering the cards, please note that another three cards have to be ordered.

Phase-out date 31.12.2013.

026389.10 **ACC 50**



Proximity reader having its own authorisation request for controlling a door. Programming is very simple by means of programming cards.

When connected to a timer switch, different authorisations can be assigned (e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only).

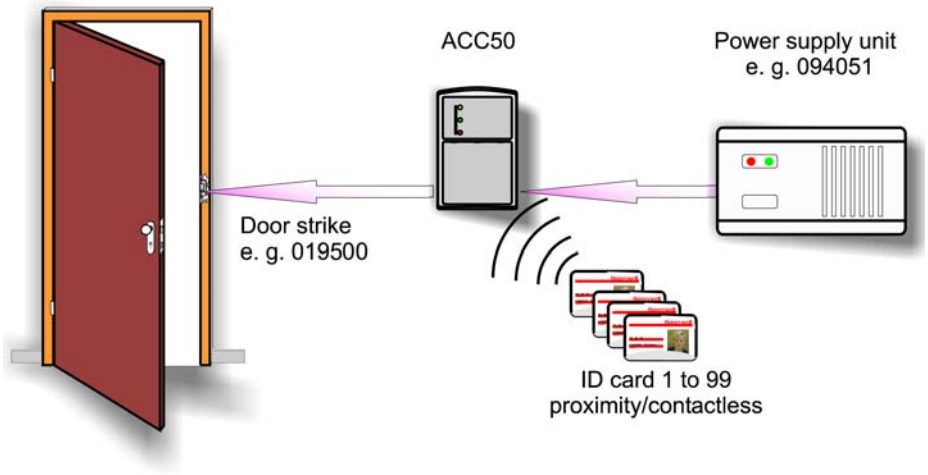
Technical Data

Rated mains voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Typical current consumption	60 mA
Maximum current consumption	120 mA
Power consumption	1,44 W
Reading distance max.	12 cm
Max. loading capacity of the floating contact	24 V / 1 A DC
Printer interface	RS 232 C, TxD only
Maximum length of the line printer interface	15 m
Type of protection DIN 40 050	IP 64
Operating temperature	-25 °C to +60 °C
Storage temperature range	-35 °C to +70 °C
Environmental class as per VdS	III
Colour	greywhite, similar to RAL 9002
Weight	ca. 200 g
Dimensions (W x H x D)	82 x 127 x 14 mm

adapter base 022197.

Performance Features

- Door lock release with up to 99 different proximity cards as a function of time (external time switch)
- Simple programming
- Simple connection technology via prefabricated 5-m cable
- Activation of the door strike via integrated relay (max. 24 V / 1 A)
- Relay output for alarm signal (24 V / 1 A)
- Connection for door feedback and door lock release from inside
- RS-232 printer interface for chronological printout
- Status display via three LEDs:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
- Area switching via external input
- Adjustable door lock release and door monitoring interval



Planning Example ACC 50

Accessories:

Programming card set for ACC 50.
The programming card set for the ACC 50 is generated by the installer.
Normal cards e. g. 026370.00 can be defined as programming card set.
When ordering the cards, please note that another three cards have to be ordered.

026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
094051	Power supply unit 12 V DC / 500 mA
019500	Electric door strike

026384.10 **ACCK 50**



Same functions as ACC 50 but additionally equipped with keypad for door code. When connected to a serial printer, the time and date of the access attempt is automatically logged. Proximity reader having its own authorisation request for controlling a door.

Programming is very simple by means of programming cards. When connected to a timer switch, different authorisations can be assigned (e.g. one card will open around the clock, while another card has access from 8:00 am to 4:00 pm only).

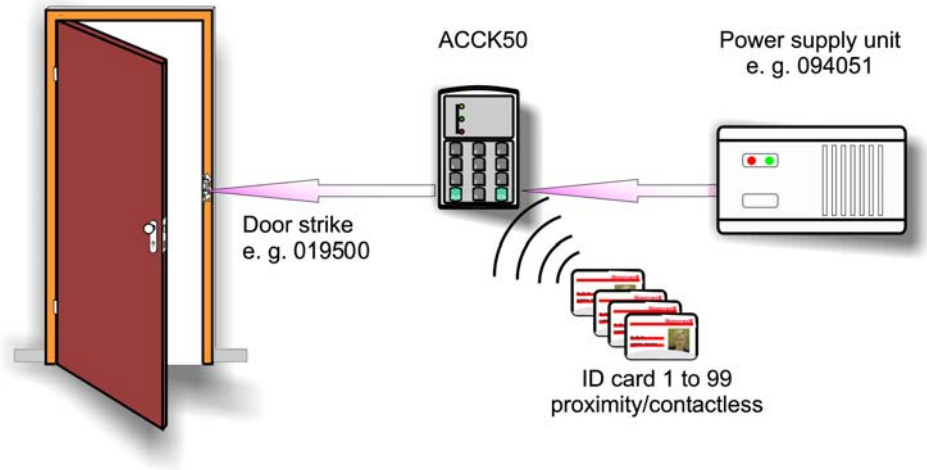
Performance Features

- Access criterion 1: Card and door code
- Access criterion 2: Card only
- Door lock release with up to 99 different proximity cards as a function of time (external time switch)
- Simple programming
- Simple connection technology via prefabricated 5-m cable
- Activation of the door strike via integrated relay (max. 24 V / 1 A)
- Relay output for alarm signal (24 V / 1 A)
- Connection for door feedback and door lock release from inside
- RS-232 printer interface for chronological printout
- Status display via three LEDs:
  - yellow = ready-to-run
  - green = door lock released
  - red = not authorised
- Area switching via external input
- Adjustable door lock release and door monitoring interval

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Typical current consumption	60 mA
Maximum current consumption	120 mA
Power consumption	1,44 W
Reading distance	12 cm
Max. loading capacity of the floating contact	24 V / 1 A DC
Printer interface	RS 232 C, TxD only
Maximum length of the line printer interface	15 m
Type of protection DIN 40 050	IP 64
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-35 °C to +70 °C
Environmental class as per VdS	III
Colour	greywhite, similar to RAL 9002
Weight	ca. 200 g
Dimensions (W x H x D)	82 x 127 x 14 mm

adapter base 022197.



Planning Example ACCK 50

Accessories:

Programming card set for ACCK 50.
The programming card set for the ACCK 50 is generated by the installer.
Normal cards e. g. 026370.00 can be defined as programming card set.
When ordering the card, please note that another six cards have to be ordered.

026368.00	ID card for proximity readers, neutral
026370.00	ID card for proximity readers, printed
094051	Power supply unit 12 V DC / 500 mA
019500	Electric door strike

025050 Door code compact device



The door code compact device is used as autonomous door strike control device for one door. The device designed in advanced microprocessor technology works with an individually adjustable 2- to 6-digit numeric code.

This makes it easier to set up person-related access authorisations for a room. Up to four different user codes can be programmed.

Control device with integrated power supply unit and keypad in a lockable housing.
A 2- to 6-digit code can be set;

Door unlocking interval of 1 - 30 seconds; Can be reset for 12 V / DC door strike max. 250 mA; Suitable for no-load current strike and strike with load current function.

Performance Features

- 1-channel device
- Microprocessor-controlled
- 2- to 6-digit code input
- Time-settable channel release 1-30 seconds
- Optic display for release period
- Permanent unlocking via keypad
- Door strike with no-load current or load current function can be used
- Compact design
- Power supply unit and keypad integrated
- Simple installation
- Metal housing

Technical Data

Operating voltage	prim. 230 V DC
Operating voltage range	230 V AC (+10 % to -15 %)
Mains frequency	50 Hz
Power consumption full load	11.5 VA
External current drawer	< 0.25 A
Relay contact rating	24 V DC/1 A
Release period	1 - 30 sec.
Operating temperature range	0 °C to +40 °C
Storage temperature range	-20 °C to +60 °C
Humidity class according to DIN 40040	class F
Type of protection DIN 40 050	IP 30
Housing	die-cast aluminium, powder-coated
Colour	greywhite, similar to RAL 9002
Dimensions (W x H x D)	120 x 156 x 67 mm

Accessories:

019500	Universal electric door strike (load current) with feedback contact
019502	Electric door strike Universal DIN left and DIN right, quiescent current
019505	Security door strike DIN left and DIN right

Notizen



Linkable Access Controllers

- ACT
- ACS-2 plus
- ACS-8

Controller				
	ACT		ACS-2 plus	ACS-8
Item no.	026101.10	026100.10	026547 026548	026575 026580 026585
VdS-Approval no.	Z 100702 class A	Z 100701 class A		Z 105009 class C
Memory				
Max. no. of persons	800		65,500*	65,500*
Max. room/time zones	-		512*	512*
Max. no. of bookings	2,200		65,500*	65,500*
Connections				
Door strikes onboard	1		2	4
Door strikes total incl. expansion	1		2	8
Readers onboard	1		2	2
Readers total incl. expansion	-		2	16
Keypads onboard	1		2	2
Keypads total incl. expansion	-		2	16
Semi-conductor outputs onboard	-		3	3
Outputs total incl. expansion	-		6	64
Digital inputs onboard	-		4	4
Inputs total incl. expansion	-		12	64
Differential alarm lines	-		8	8
Host interface				
RS 232	(x)		(x)	(x)
RS 485	(x)		(x)	(x)
Current-Loop	(x)		(x)	(x)
Ethernet	(x)		(x)	(x)
External bus controller	-		x	x
Interface converter	x		x	x
Interface multiplier	x		x	x
RDT analogue	-		x	x
RDT ISDN	-		x	x
Readers/keypads				
proX contactless (“Esser“)	x		x	x
proX mortise (“Esser“)	-		x	x
LEGIC	x		x	x
LEGIC mortise	-		x	x
mifare	x		x	x
Magnetic	x		x	x
Chip	x		x	x
Keypad 2-wire (analogue)	x		x	x
Keypad Clock/Data	x		x	x
Automatic addressing	-		-	x

- = no / x = yes / (x) = via additional option with costs
* depending on memory expansion and dynamic sampling of ACS-2 plus and ACS-8
** on request

Controller				
	ACT		ACS-2 plus	ACS-8
Item no.	026101.10	026100.10	026547 026548	026575 026580 026585
VdS-Approval no.	Z 100702 class A	Z 100701 class A		Z 105009 class C
Validity of data carriers				
by minute	-		x	x
by date	x		x	x
Codes				
PIN, no. of digits	4 or 6 to set via software		4 or 6 to set via software	4 or 6 to set via software
Door code, no. of digits	-		4 or 6 to set via software	4 or 6 to set via software
Duress code	-		x	x
Special functions				
Barring repeated entry	-		x	x
I/O counters door related	-		-	-
I/O counters area related	-		x	x
Multi-eye access, no. of persons	-		1-9	1-9
Anti pass back	-		x	x
Image comparison with camera control	-		x	x
Flexible macro functions	-		x	x
Special controls				
Control outputs	-		x	x
Control output groups	-		x	x
Turnstile control	-		x	x
Elevator control	-		x	x
Key depot control	-		-	x
Interlock control	-		x	x
Biometrics				
Fingerkey recognition	x		x	x
Face recognition	-		-	via connection to 3rd party system
Iris recognition	-		-	via connection to 3rd party system
Back of hand recognition	-		-	via connection to 3rd party system

- = no / x = yes / (x) = via additional option with costs
* depending on memory expansion and dynamic sampling of ACS-2 plus and ACS-8
** on request

026101.10 Access Control Central Control Unit ACT



VdS **Approval** **Z 100702 Class A**

For 230 V AC power supply
Management of 1 to a maximum of 800 persons.

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% to +10%
Mains frequency	50 Hz
Output voltage	10 V DC to 15 V DC
Power consumption	10 VA
Max. current drain external load	300 mA
Device with fuse protection primary	100 mAT, 250 V
Device with fuse protection secondary	1 AT, 250 V
Dimensions (W x H x D)	201 x 147 x 51 mm

without interface.

Performance Features

- Slot for RS-485 interface (5-wire) for connection to interface converter
- Integrated RS-232 interface for connection to a notebook or PC
- Slot for Ethernet interface for connection to 10/100 Mbits/s - LAN
- Connection for an external reader (magnetic, chip card, proximity reader or mifare* and Legic* readers)
- To be operated with MultiAccess Lite / IQ MultiAccess

Connections:

- 1 reader with LED display and 2-wire keypad
- 1 door strike relay
- 1 alarm relay
- 1 door strike key
- 1 door monitoring contact

Memory:

- 1 to 800 persons
- Ring buffer for 2,200 bookings

Special functions:

- Door lock release with
  - a) card only
  - b) PIN code only
  - c) PIN code and card
  - d) card or PIN code

Accessories:

026693	RS -485 5-wire interface
026840.29	Ethernet interface (AutoSense, 10/100 Mbits/s)
026817.03	Interface converter
026109	PC adapter cable
026809	Connecting cable
019500	Electric door strike (ZK)
027901	Converter board reader

026110 Software upgrade for ACT 300 to 800 persons

Memory extension option from 300 to 800 persons by means of firmware update (EPROM replacement).

For older versions of the ACT:

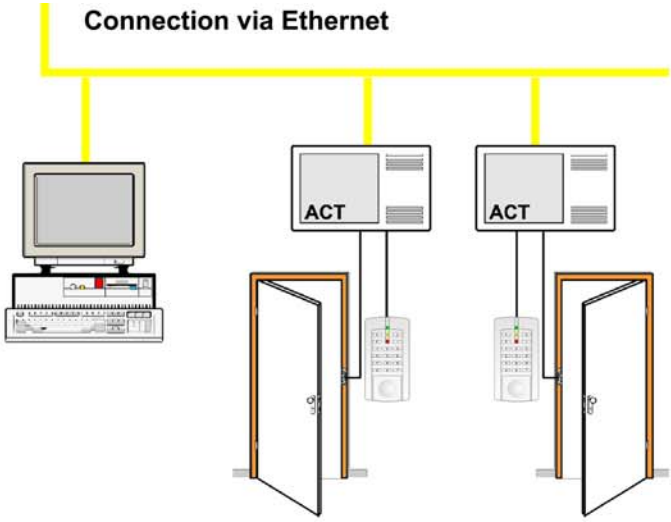
026101.10

Planning example ACT

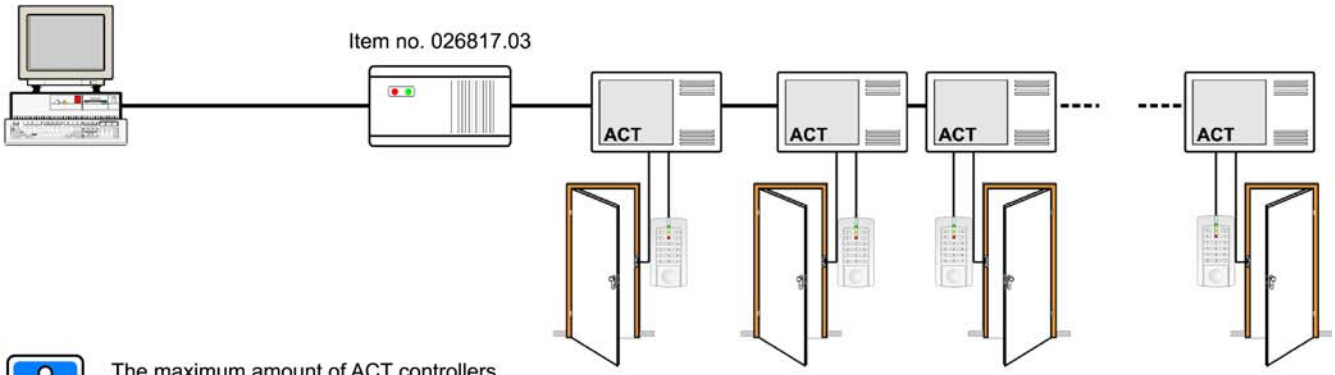
Direct connection via RS 232



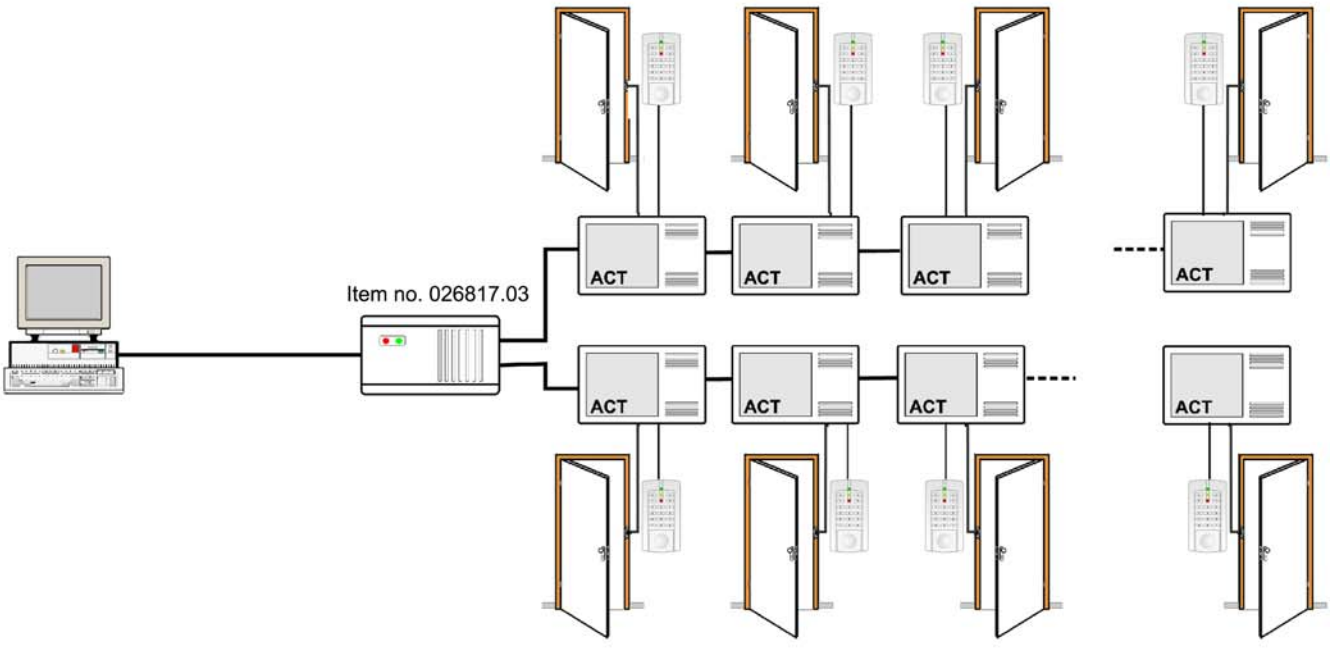
Connection via Ethernet



Connection via interface converter, 1 or 2 lines



The maximum amount of ACT controllers is depending on the individually used AC-software.



ACS-2 plus base unit

Performance Features

- Smart access control panel for 2 doors

Connections:

- 2 readers with clock/data interface
- 2 keypads with 2-wire interface
- 4 relay outputs (e.g.: door strike, flash lamp, etc.)
- 3 semiconductor outputs (e.g.: threat, WatchDog, etc.)
- 4 digital inputs (e.g.: door strike key, monitoring contact, etc.)
- 8 differential detector groups (e.g.: magnetic contact, glass breakage sensor, etc.)
- Integrated tamper contact
- For Host interfaces RS-485, RS-232 or Ethernet 10/100 Mbits/S Host
- Analog modems and ISDN terminal adapters are supported.
- Direct modem connection without additional card

Memory:

- Upgradable program memory (flash)
- Dynamic memory management
- Battery-buffered memory (0.5 MB, extendable to 3.5 MB)
- Max. approx. 65,500 badges*
- Max. approx. 512 room/time zones*
- Public holiday and holiday calendar
- Booking buffer for max. 65,000 events*
- Clock with data and automatic summer/winter time setting

* The values depend on the memory extension and parameterisation of the dynamic memory management.

Special functions:

- Variable door lock release, monitoring and alarm periods
- Automatic function control via time zones (e.g.: door lock release, etc.)
- Special relay function for real-time release for rescue route interface
- Flexible event control via inputs and relays
- Macro control
- Zone change control

Housing

- Compact housing (with integrated power supply unit in the 230 V version)

The ACS-2 plus is a two-door access control panel. Two separate doors or a door with internal and external readers can be connected by the conventional method.

The complete firmware is upgradable. No more time-consuming replacements of the EPROMs will be necessary in case of function extensions. New program parts or extensions can be uploaded to the control panel via the ZK software.

The access control rights are set up and managed via the ZK software.

The maximum number of controllers is determined by the access control sftware.

To be operated with:

- MultiAccess for Windows from V6 / SP1
- MultiAccess Lite
- IQ MultiAccess
- NovaTime

The ACS-2 plus contains all decision rights for door lock release and control.



- Housing with processor board
- Periphery connection via screw terminals
- Connections for two clock/data readers
- Connections for two 2-wire keypads
- Connection for host interface

Accessories:

027901	Reader converter board
018002.10	12 V DC accumulator / capacity 2,0 Ah
026840.03	RS -232 interface
026693	RS 485 5-wire interface
026840.29	Ethernet interface 10/100 Mbits/s (AutoSense)
026596	Memory extension 1 MB RAM
026597	Memory extension 2 MB RAM
026598	Memory extension 3 MB RAM

026547 ACS-2 plus, 230V AC, without interface



Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC - 15% + 10%
Operating temperature range	0 °C to +45 °C
Storage temperature range	-25 °C to 70 °C
Environmental class as per VdS	II
Colour	greywhite, similar to RAL 9002
Housing	Sheet steel
Dimensions (W x H x D)	250 x 210 x 100 mm

026548 ACS-2 plus, 12V AC, without interface

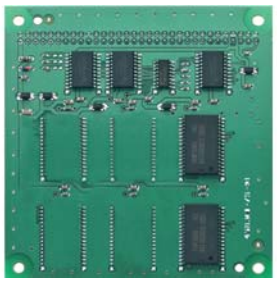


Technical Data

Rated operating voltage	12 V DC
Operating voltage range	12 V to 15 V
Operating temperature range	0 °C to +45 °C
Storage temperature range	-25 °C to 70 °C
Environmental class as per VdS	II
Colour	greywhite, similar to RAL 9002
Housing	Sheet steel
Dimensions (W x H x D)	250 x 210 x 100 mm

Memory expansions for ACS-2 plus / ACS-8

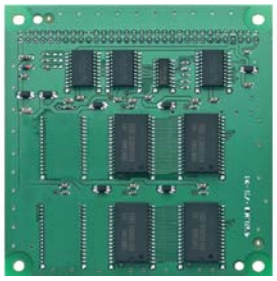
026596 1 MB RAM memory card for ACS-8 / ACS-2 plus



This memory card increases the available memory from 0.5 MB to 1.5 MB.

ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

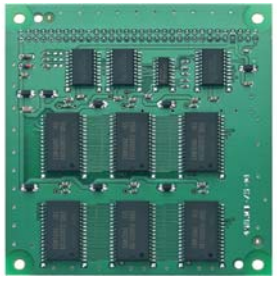
026597 2 MB RAM memory card for ACS-8 / ACS-2 plus



This memory card increases the available memory from 0.5 MB to 2.5 MB.

ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026598 3 MB RAM memory card for ACS-8 / ACS-2 plus



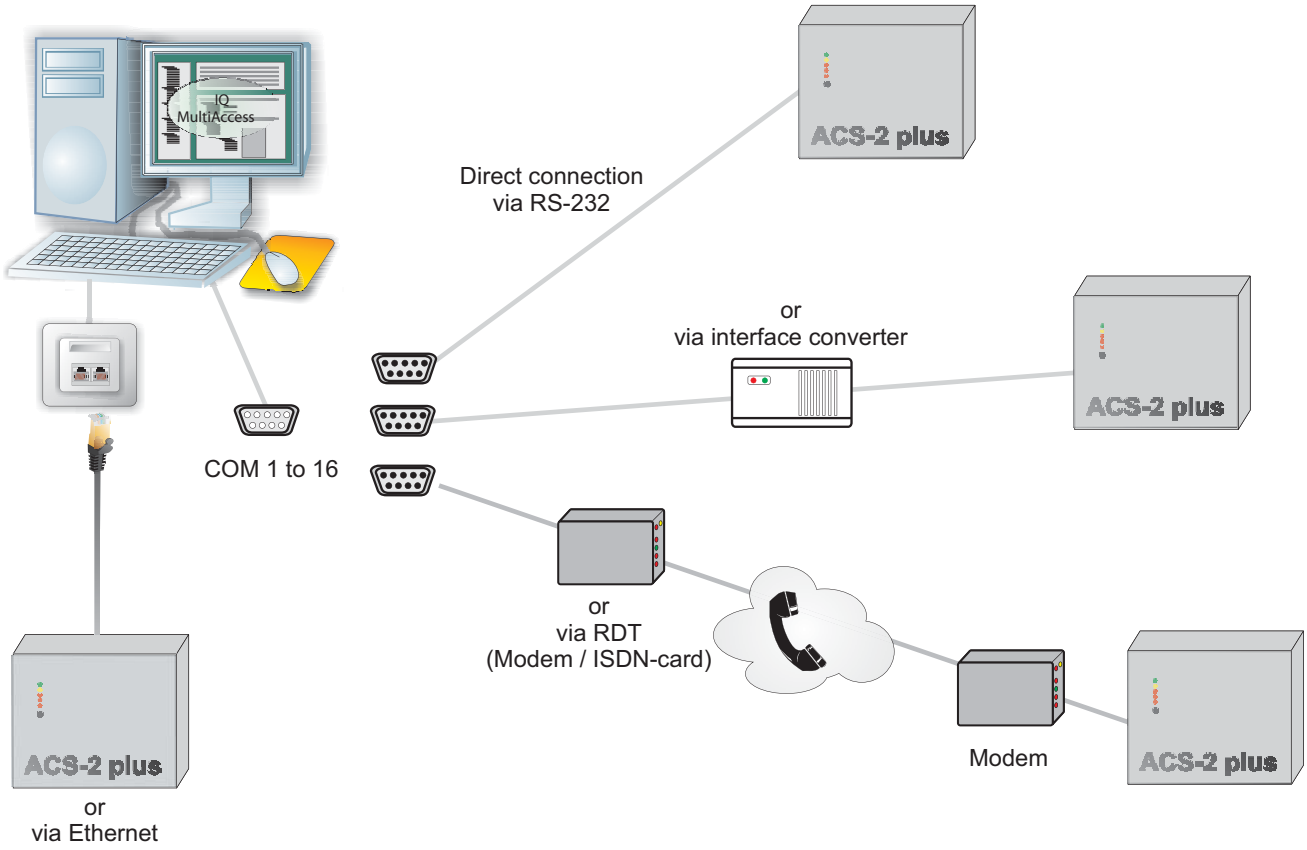
This memory card increases the available memory from 0.5 MB to 3.5 MB.

ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

Planing example ACS-2 plus

Host connection possibilities of ACS-2 plus

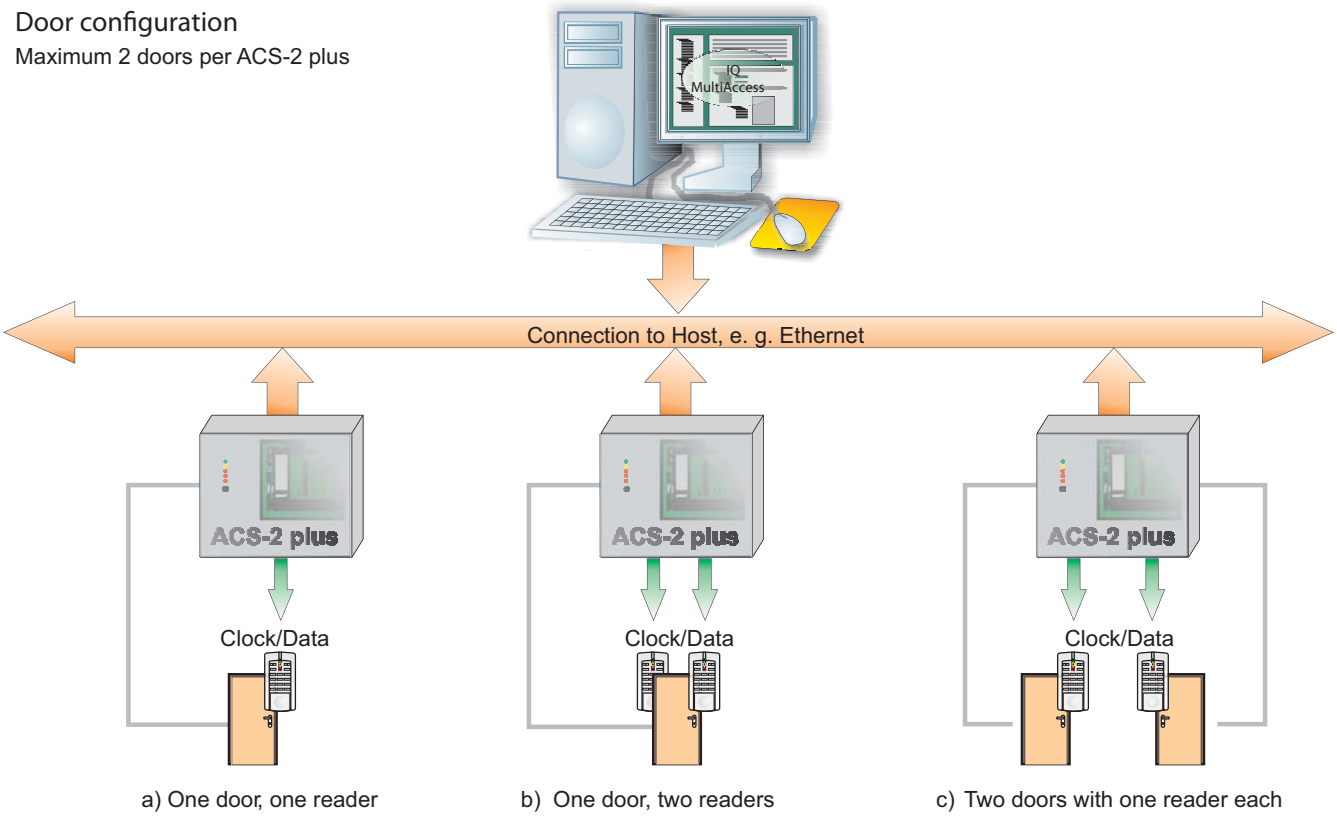
With IQ MultiAccess, the individual connection possibilities can be combined in any way.
MultiAccess Lite does not support RDT.



Planing example ACS-2 plus

Door configuration

Maximum 2 doors per ACS-2 plus



a) One door, one reader

b) One door, two readers

c) Two doors with one reader each

ACS-8 base unit

Performance Features

- Intelligent access control panel for 2 doors (can be extended to max. 8 doors (sixteen readers) via RS-485 module bus)
- 4 door strikes directly connectable

Connections:

- 2 readers with clock/data interface
- 2 keypads with 2-wire interface
- 4 relay outputs (e.g.: door strike, flash lamp, etc.)
- 3 semiconductor outputs (e.g.: threat, WatchDog, etc.)
- 4 digital inputs (e.g.: door strike key, monitoring contact, etc.)
- 8 differential detector groups (e.g.: magnetic contact, glass breakage sensor, etc.)
- Integrated tamper contact
- Optional host interfaces (RS -485, RS -232, Fast Ethernet 10/100 Mbits/s, Current Loop)
- RS-485 module bus (optionally via communication module)
- Flexible power supply unit configurations, depending on the required power
- 12 V DC emergency power supply, depending on power supply unit configuration and required power
- Analog modems and ISDN terminal adapters are supported.
- Direct modem connection without additional card
- Clock with data and automatic summer/winter time setting
- Variable door lock release, monitoring and alarm periods
- Automatic function control via time zones (e.g.: door lock release, etc.)
- Special relay function for real-time release for rescue route interface
- Convenient and flexible event control via inputs and output modules
- Macro control (intrusion detection system control, lift control, etc.)
- Zone change control
- Blocking of repeated access
- Auto-addressing mode of the new Accentic readers
- Easy-to-implement door interlock control
- Implementation of picture comparison
- Multiple person access control “4-eye principle”
- 4 door strikes directly connectable to ACS-8
- 2 doors can be connected to the door module
- LEGIC swipe readers are supported

Memory:

- Upgradable program memory
- Dynamic memory management
- Battery-buffered memory
- (0.5 MB, extendable to 3.5 MB)
- Max. approx. 65,500 badges*
- Max. approx. 512 room/time zones*
- Public holiday and holiday calendar
- Booking buffer for max. 65,000 events*

* The values depend on the memory extension and parameterisation of the dynamic memory management.

Approval Z 105009, Class C

ACS-8 is the high-end access control panel which meets all requirements of an advanced access control system. Its particular performance feature is its flexible and freely selectable installation technology. Thus, up to two separate doors or a door with internal and external readers can be connected by the conventional method.

The communication module allows an extension by means of wire-saving RS -485 bus technology to max. eight doors (sixteen readers).

As standard feature, two controllable RS-485 interface drivers are integrated in the communication module.

The complete firmware is upgradable. No more time-consuming replacements of the EPROMs will be necessary in case of function extensions. New program parts or extensions can be uploaded to the central control units via the AC software.

To be operated with:
- MultiAccess for Windows from V5
- IQ MultiAccess

The maximum number of controllers is determined by the access control sftware. The access control rights are set up and managed via IQ MultiAccess.

The ACS-8 contains the decision rights for door lock release and control.

The optional fitting of an Ethernet card (026840.29) allows the terminal to be integrated directly into existing Ethernet networks (LANs).

The following components can be connected to the communication module:
- Magnetic card reader RS -485
- Legic reader RS-485, mifare reader RS-485, fingerkey
- Proximity reader RS-485
- Keypad RS-485
- Many readers of other brands via the converter board
- Door module 12 V version/230 V version RS-485
- Input module RS-485, output module RS-485, input/output module RS-485
- Biometric detection systems (upon request):
  - Fingerkey
  - Face recognition
  - Iris recognition
  - Others

The connection to intrusion detection systems can be done via the input/output modules. From V 02 and macro control.

The connection to escape route technology is done directly via a temporary release.

- Housing with processor board
- Periphery connection via screw terminals
- Connections for two clock/data readers
- Connections for two 2-wire keypads
- Slot for host interface and memory card
- Assembly site for communication module

Accessories:

026692	RS-485 5-wire interface without potential separation or
026693	RS-485 5-wire interface with potential separation or
026840.03	Asynchronous RS -232 host interface or
026840.16	Current loop current interface or
026840.29	Ethernet interface (AutoSense, 10/100 Mbits/s)
018002.10	12 V DC accumulator / capacity 2,0 Ah or
018003.10	12 V DC accumulator / capacity 3,5 Ah
026596	1 MB RAM memory card or
026597	2 MB RAM memory card or
026598	3 MB RAM memory card
026587	Communication module (max. 2 per ACS-8)
027901	Converter board reader

026585 ACS-8 standard system, 230 V AC



VdS **Approval Z105009, Class C**

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% +10%
Continuous current drain	1.4 A
Battery box	1 x 018003 (35 Ah) or 2 x 018002 (2.0 Ah)
Housing	Sheet steel
Dimensions (W x H x D)	350 x 280 x 100 mm

power supply unit/charger 010 690.02.

026575 ACS-8 standard system with freely selectable power supply unit installation



VdS **Approval Z105009, Class C**

Depending on the required current, one of the following power supply units/chargers can be used:

012168 = 80 Ah/continuous current drain: 3.5 A

012170 = 130 Ah/continuous current drain: 5.0 A

Technical Data

Rated operating voltage	12 DC
Operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Environmental class as per VdS	II
Colour	greywhite, similar to RAL 9002
Housing	sheet steel
Dimensions (W x H x D)	350 x 280 x 100 mm

The selection of the power supply unit/charger depends on the connected consumers.

026580 ACS-8 standard system, 12 V DC

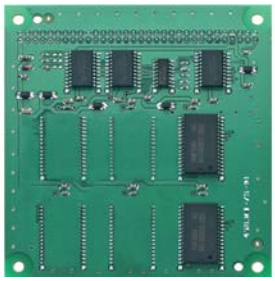


Technical Data

Rated operating voltage	12 V DC
Operating voltage range	10 V DC to 15 V DC
Current consumption without periphery	max. 150 mA
Operating temperature range	-0 °C to 45 °C
Storage temperature range	-25 °C to 70 °C
Environmental class as per VdS	II
Colour	greywhite ,similar to RAL 9002
Housing	sheet steel
Dimensions (W x H x D)	250 x 210 x 100 mm

Memory expansions for ACS-2 plus / ACS-8

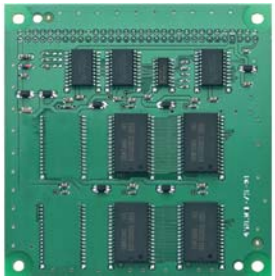
026596 1 MB RAM memory card for ACS-8 / ACS-2 plus



This memory card increases the available memory from 0.5 MB to 1.5 MB.

ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026597 2 MB RAM memory card for ACS-8 / ACS-2 plus



This memory card increases the available memory from 0.5 MB to 2.5 MB.

ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

026598 3 MB RAM memory card for ACS-8 / ACS-2 plus



This memory card increases the available memory from 0.5 MB to 3.5 MB.

ACS-2 plus and ACS-8 have a dynamic memory management whose requirement must be determined by calculation as a function of the data to be managed.

Function extension

026587 Communication module



The ACS-8 communicates with the connected RS-485 users via the communication module.

As standard feature, two separate RS-485 interface drivers are integrated into the communication module.

A maximum of up to 32 users can be managed simultaneously.

For each ASC-8, up to 2 communication modules can be used. This gives a maximum of 4 separate RS 485 bus systems including up to 8 half-lines. This allows even the most complex topologies to be generated.

Technical Data

Current consumption	max. 150 mA

Module bus users / RS-485 modules

For bus readers and keypads, please see chapter “Readers, Keypads”

026590 Input module, RS-485



Technical Data

Digital inputs	4 x potential separated
Operating voltage range	9 V DC to 15 V DC
Current consumption	max. 140 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026591 Output module, RS-485



Technical Data

Relays	4 x 24 V DC / 1 A
Operating voltage range	9.5 V DC to 15 V DC
Current consumption	max. 250 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026592 Input/output module, RS-485



Technical Data

Differential inputs	2 x clearable
Digital inputs	2 x potential separated
Relays outputs	2 x 24 V DC / 2 A
Operating voltage range	9.5 V DC to 15 V DC
Current consumption	max. 230 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026595.10 Module potential separation, RS-485

NEW



A maximum of four modules without a potential separated RS -485 interface of their own can be connected to the module.

Recommended when using external power supply units and for long bus lines run outdoors as well as building-covering installations.

Connectable modules include all readers, keypads and door modules equipped without a potential separated RS -485 interface of their own.

Technical Data

Connection	Control line and separated RS-485 interface for up to 4 modules
Operating voltage range	10 V DC to 15 V DC
Current consumption	max. 120 mA
Dimensions (W x H x D)	118 x 118 x 30 mm

026593.10 Door controller, 12 V DC, RS-485

NEW



The complete door periphery is wired on the door module. The door module is a module bus user and communicates with the ACS-8 via an integrated RS-485 interface.

The ACS-8 contains the access control rights and makes the decisions.

When equipped with IQ MultiAccess (from V3), a door module can control either **one or two doors**, as desired.

To the door module, item no. 026593.10, also Wiegand readers can be connected. This requires IQMA as of V.12.

Performance Features

- 2 clock/data readers
- Opening contact for 1 or 2 doors
- Door strike key for 1 or 2 doors
- Feedback contact for 1 or 2 doors
- 2 relays + semiconductor output programmable as door relay for 1 or 2 doors or programmable as alarm- or tamper output

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V bis 15 V DC
Current consumption (no-load) w/o ext. users	10 mA
Operating temperature range	-5 °C bis +55 °C
Storage temperature range	-25 °C bis +70 °C
Environmental class as per VdS	II
Colour	greywhite, similar RAL 9002
Housing	plastic
Dimensions (W x H x D)	163 x 152 x 40 mm

If, from IQ MultiAccess V3, two doors are controlled via the door module, the number of freely usable inputs and outputs is reduced.

The device has now potential separation. If required it must be connected to item no. 026595.10.

026594.10 Door module, 230 V AC, RS-485

NEW



The complete door periphery is wired on the door module. The door module is a module bus user and communicates with the ACS-8 via an integrated RS-485 interface.

The ACS-8 contains the access control rights and makes the decisions.

When equipped with IQ MultiAccess (from V3), a door module can control either one or two doors, as desired.

To the door module, item no. 026594.10, also Wiegand readers can be connected. This requires IQMA as of V.12.

Performance Features

- 2 clock/data readers
- Opening contact for 1 or 2 doors
- Door strike key for 1 or 2 doors
- Feedback contact for 1 or 2 doors
- 2 relays + semiconductor output programmable as door relay for 1 or 2 doors or programmable as alarm- or tamper output

In addition:

- Integrated 230 V AC power supply unit
- Accumulator support 1 x 018002.10 (2.0 Ah)

Technical Data

Rated operating voltage	230 V AC
Operating voltage range	230 V AC -15% bis +10%
Current consumption (no-load) w/o ext. users	65 mA
Operating temperature range	-5 °C bis +55 °C
Storage temperature range	-25 °C bis +70 °C
Environmental class as per VdS	II
Colour	grey-wheite, similar RAL 9002
Housing	plastic
Dimensions (W x H x D)	250 x 210 x 100 mm
Battery box	1 x 018002.10 (2,0 Ah)

If, from IQ MultiAccess V3, two doors are controlled via the door module, the number of freely usable inputs and outputs is reduced.

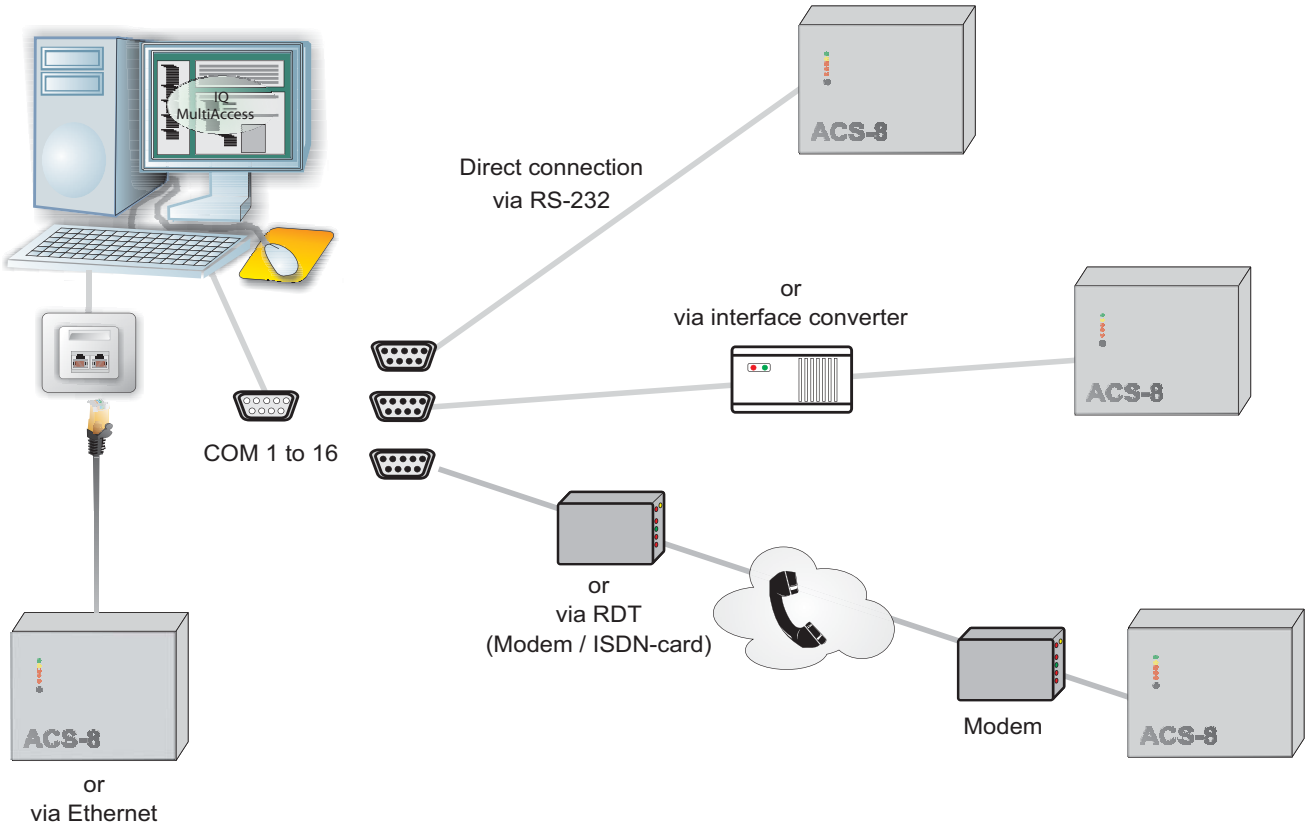
The device has now potential separation. If required it must be connected to item no. 026595.10.

Power supply unit with accumulator charging connection.

Planing example ACS-8

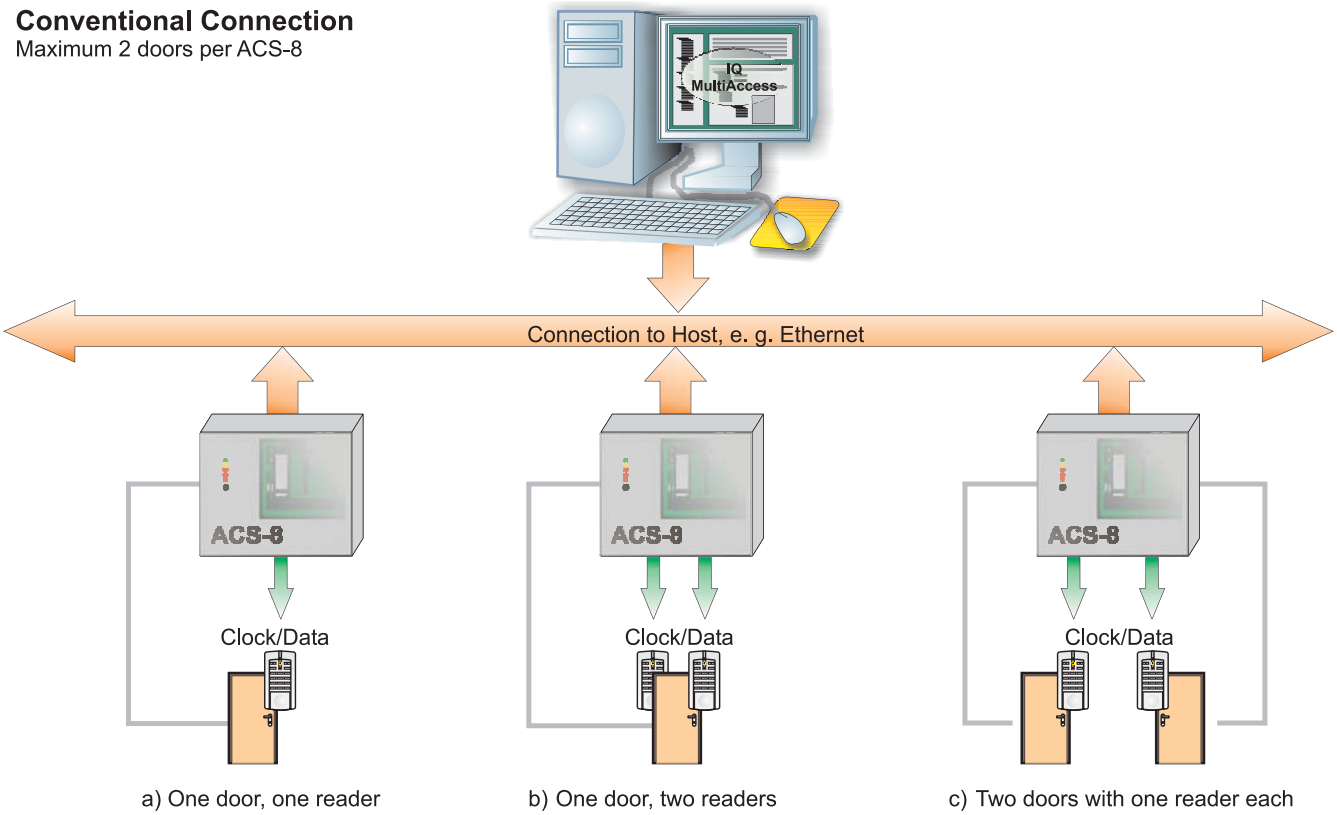
Host connection possibilities of ACS-8

With IQ MultiAccess, the individual connection possibilities can be combined in any way.
MultiAccess Lite does not support ACS-8 controllers.



Conventional Connection

Maximum 2 doors per ACS-8



a) One door, one reader

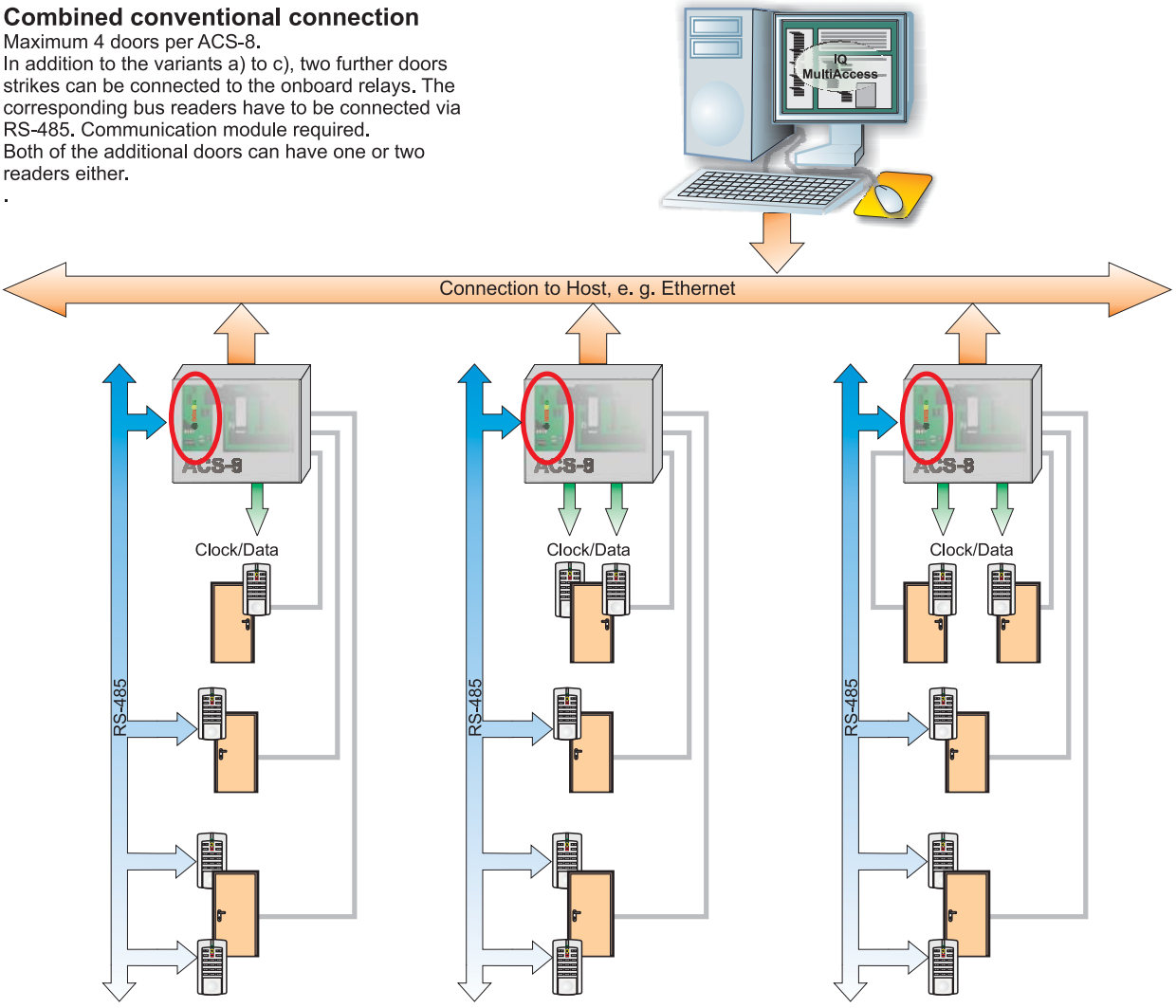
b) One door, two readers

c) Two doors with one reader each

Planing example ACS-8

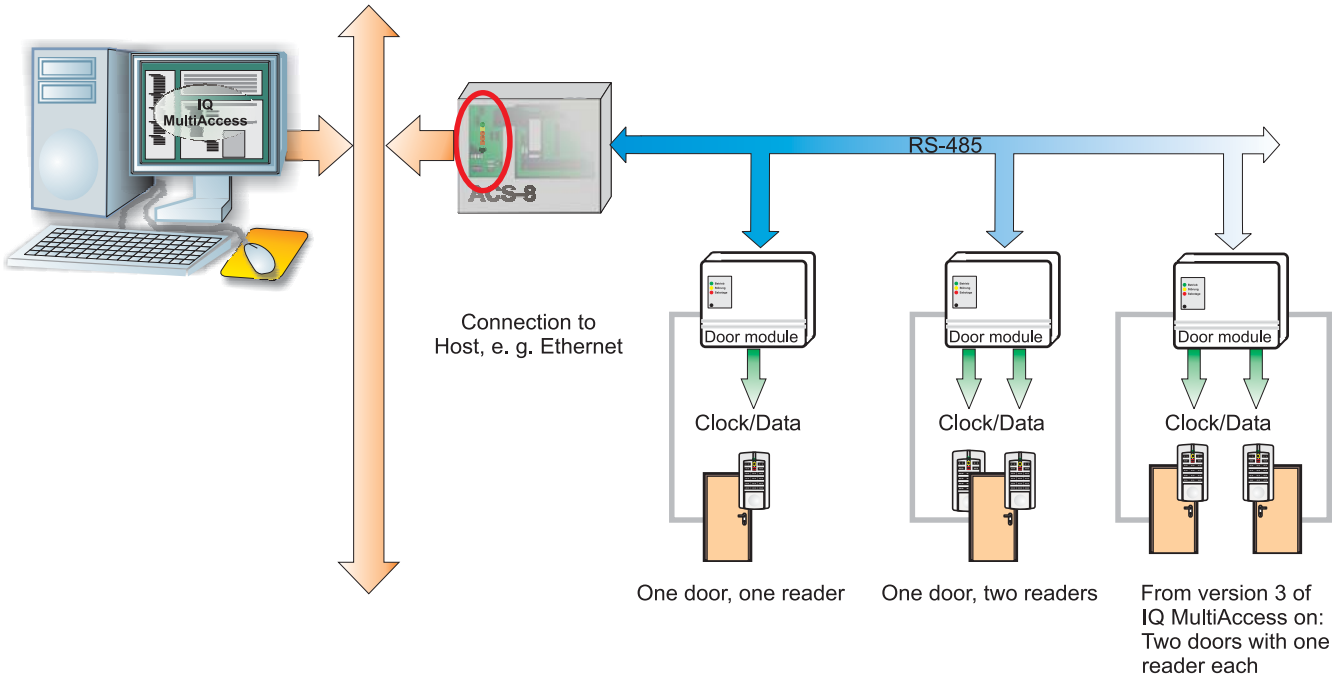
Combined conventional connection

Maximum 4 doors per ACS-8.
In addition to the variants a) to c), two further doors strikes can be connected to the onboard relays. The corresponding bus readers have to be connected via RS-485. Communication module required.
Both of the additional doors can have one or two readers either.
.



Connection via door module

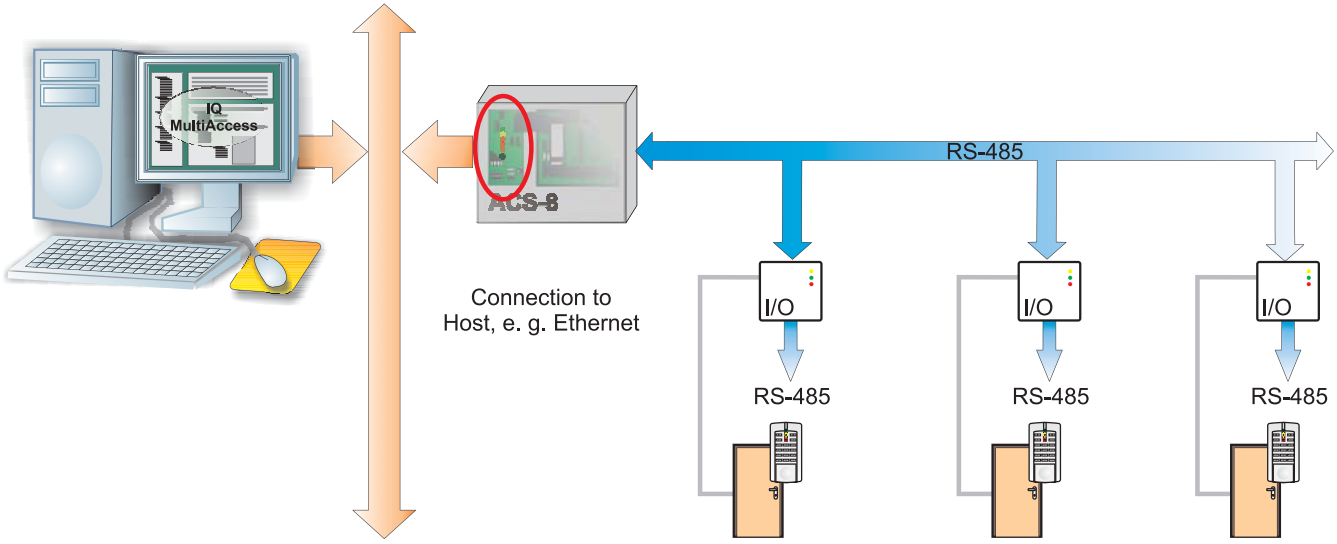
Maximum 8 doors with entry and exit reader per ACS-8
Communication module required



Planing example ACS-8

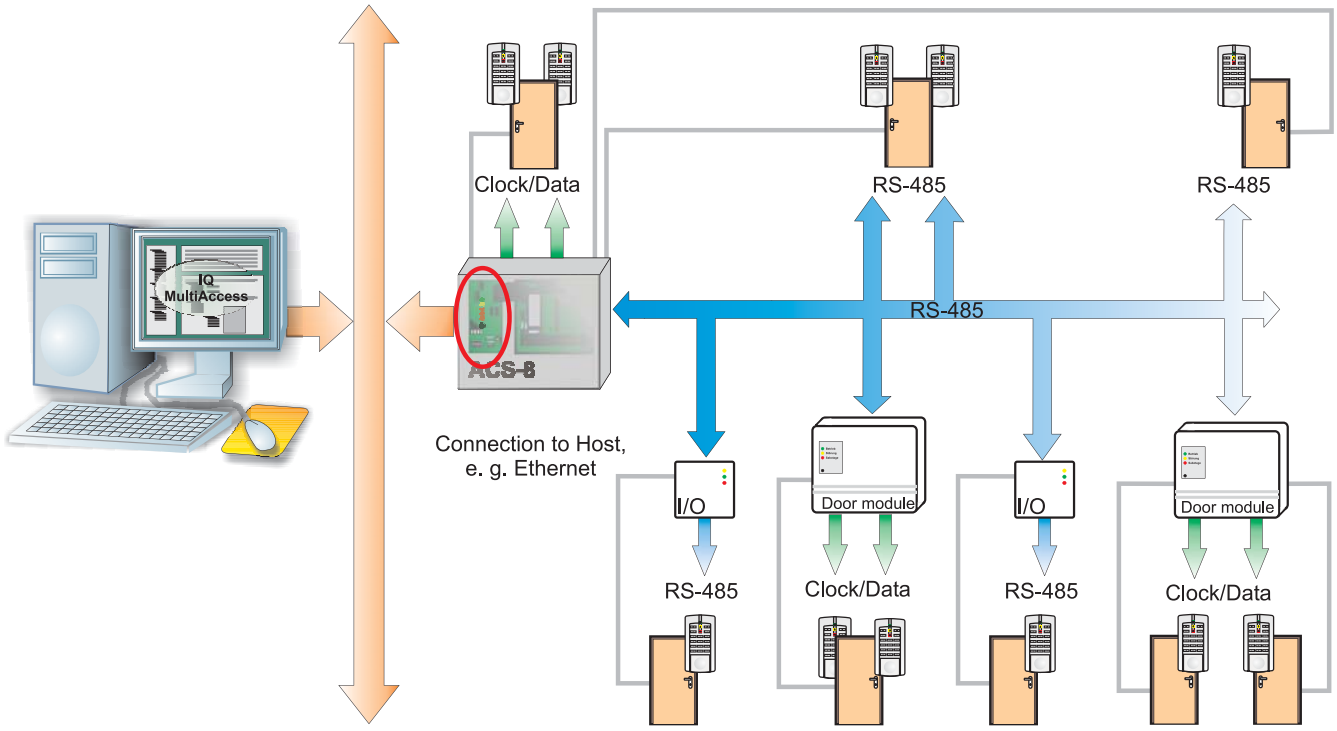
Connection via door module

Maximum 8 doors with entry and exit reader per ACS-8
Communication module required



Combined connection possibilties

All previously displayed connection possibilities can be combined in any order.
However, the maximum number of 8 doors per ACS-8 must not be exceeded.

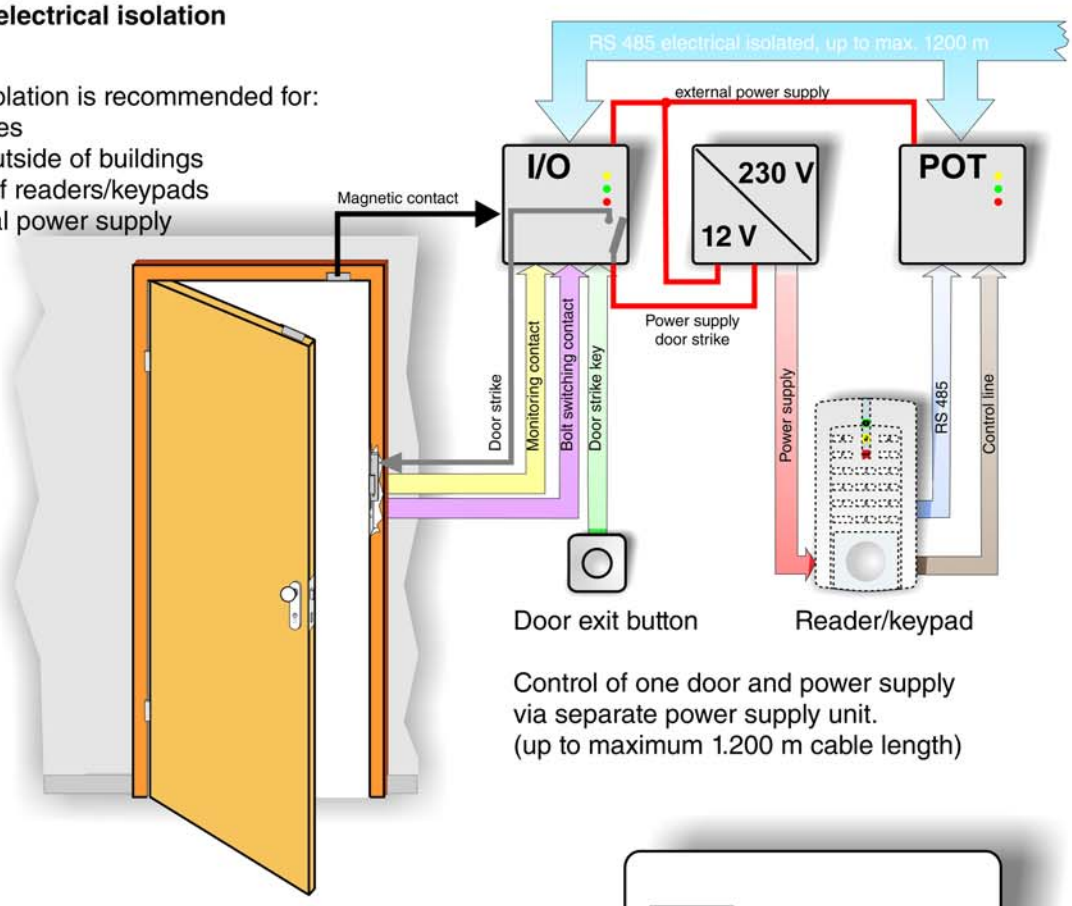


Planing example ACS-8

Connection to I/O module with external power supply and electrical isolation module

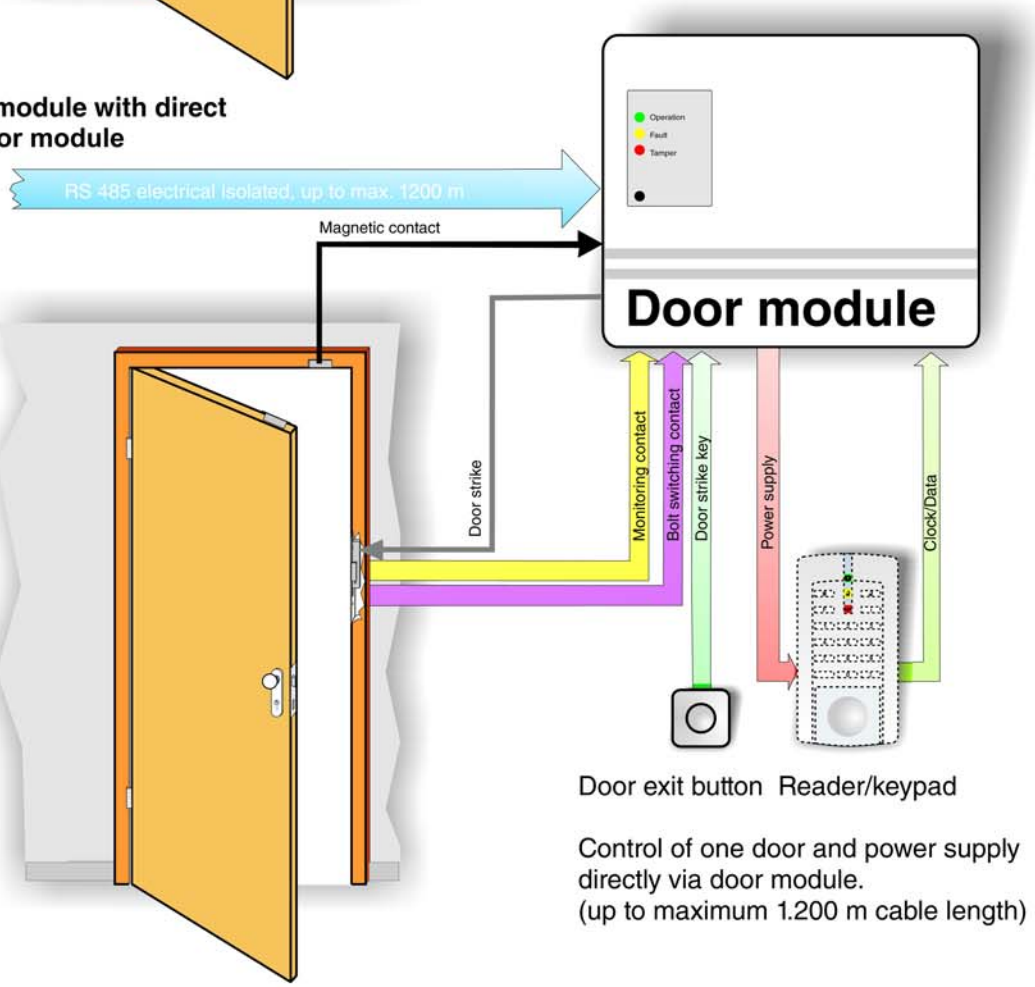
Module electrical isolation is recommended for:

- long bus lines
- Bus lines outside of buildings
- Operation of readers/keypads with external power supply



Control of one door and power supply via separate power supply unit.
(up to maximum 1.200 m cable length)

Connection to door module with direct power supply via door module

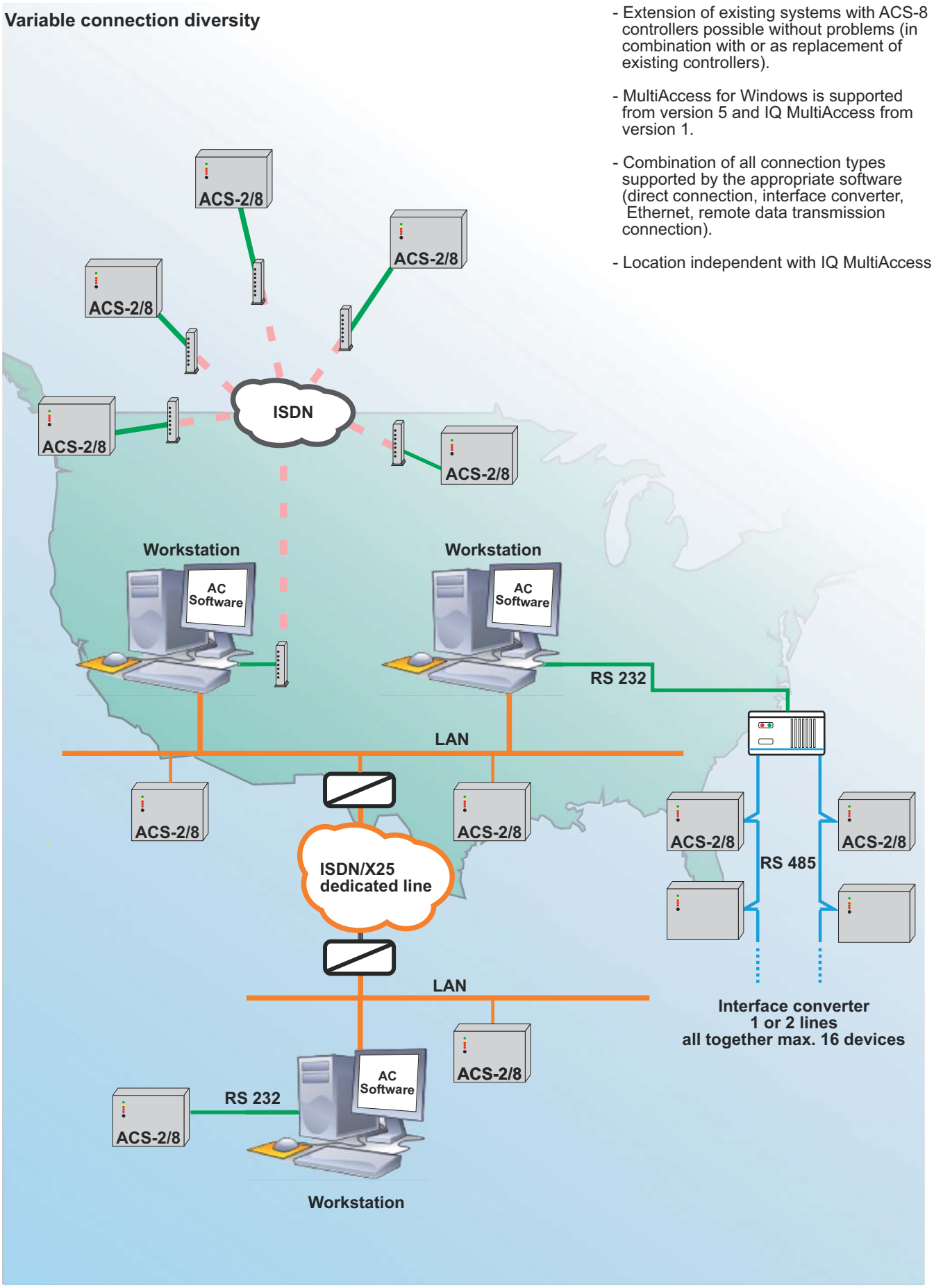


Control of one door and power supply directly via door module.
(up to maximum 1.200 m cable length)

Planing example ACS-8

Variable connection diversity

- Extension of existing systems with ACS-8 controllers possible without problems (in combination with or as replacement of existing controllers).
- MultiAccess for Windows is supported from version 5 and IQ MultiAccess from version 1.
- Combination of all connection types supported by the appropriate software (direct connection, interface converter, Ethernet, remote data transmission connection).
- Location independent with IQ MultiAccess





Software for Access Control Systems

- MultiAccess Lite (Phase-out date 30.06.2013)
- IQ MultiAccess

Software

027009 MultiAccess Lite Demo Version

The demo version gives you unrestricted operation of MultiAccess Lite for four weeks. After the four weeks have expired, the communication interfaces to the periphery are disabled. All other functions can still be used for demonstration purposes.

By licensing the standard system (Art. No. 027010), the demo version can be changed to a MultiAccess Lite version of unlimited use.

Phase-out date 30.06.2013.

027011.99 Upgrade from EnterpriseAccess 2000 to MultiAccess Lite

Upgrade EnterpriseAccess 2000 to MultiAccess Lite.

PC requirements as MultiAccess Lite.

Phase-out date 30.06.2013.

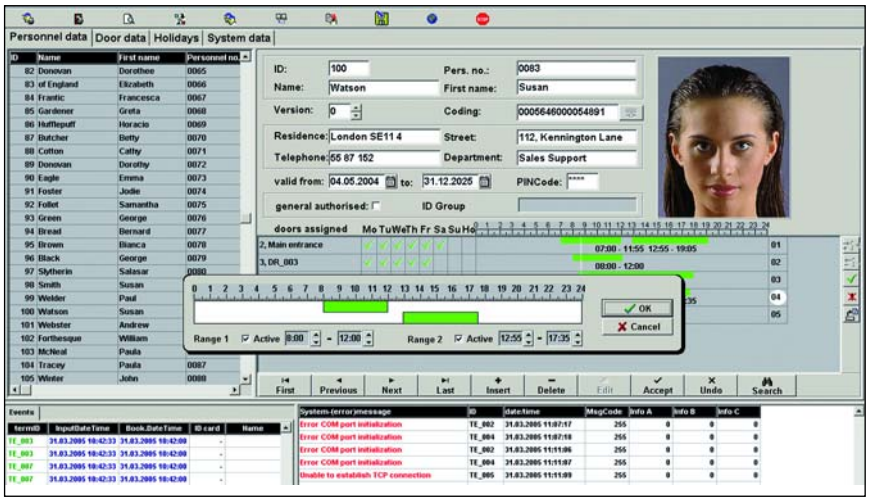
027010 MultiAccess Lite

MultiAccess Lite is an access control software for small- to medium-sized premises to be secured that have relatively few additional requirements.

MultiAccess Lite is a simple, clearly organised, for the most part self-explanatory interactive program.

At a glance: All important functions and information are shown on one screen page.

Restricted to the essentials: All infrequently needed, complex functions were omitted for the sake of simplicity.



Investment security guarantees: Upgrade to IQ MultiAccess including all data is possible.
All known reader types such as proximity, LEGIC and mifare readers can be connected.

For ordering the end user data sheet is required.

PC requirements:

	Recommended size	Minimum size
Processor	Pentium III >600 MHz	Pentium III 400 MHz
RAM	>256 MB	128 MB
Harddisk	>10 GB	2 GB
Screen / graphic card	19" 1152 x 864	17" 1024 x 768
Operating system	Windows NT from V4 on Windows 2000 Windows 2003 Server Windows XP	

Phase-out date 30.06.2013.

Performance Features

- A maximum of 32 doors
- A maximum of 800 persons

Terminals

- A maximum of 16 terminals:
  - up to 16 ACTs (for controlling one door per terminal) or
  - up to 16 ACS-2 plus (for controlling one or 2 doors per terminal);
  - ACTs and ACS-2 plus can be combined as desired; in addition, one read-in station

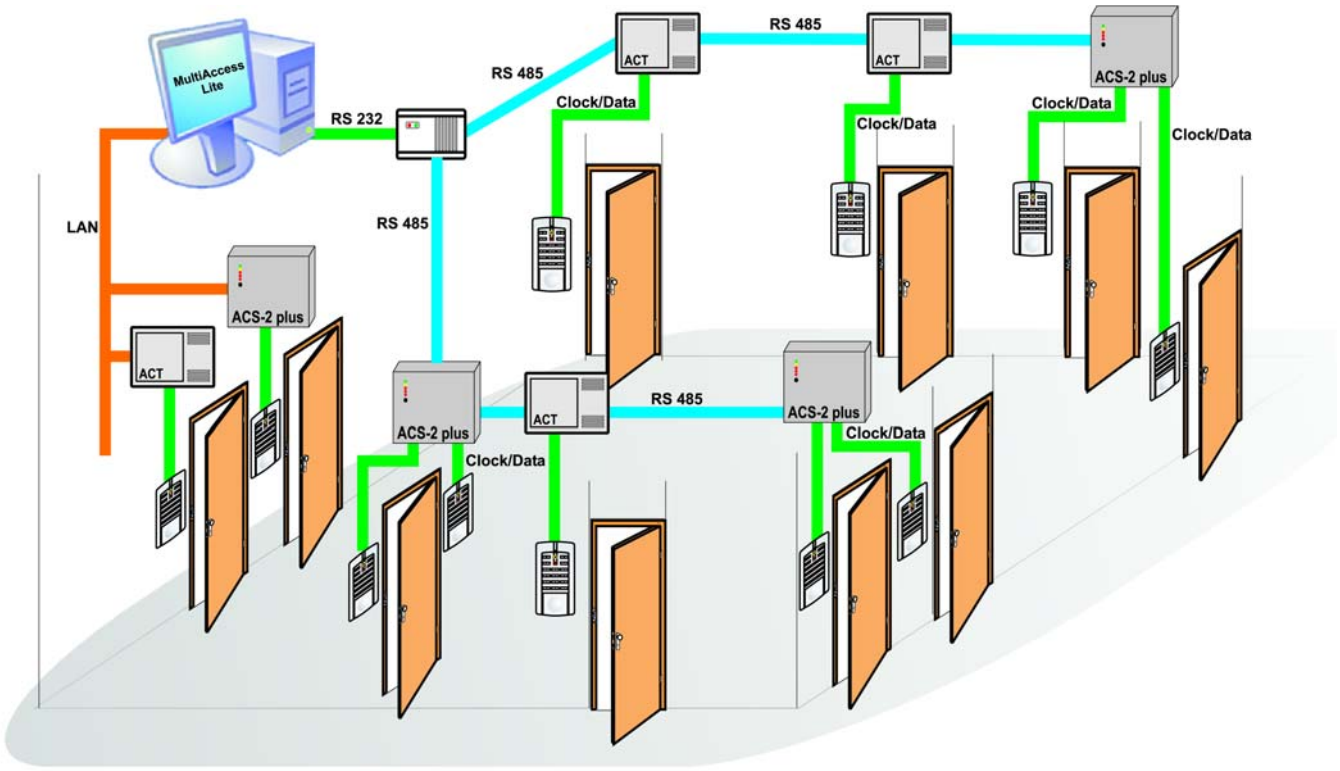
Connections:

- COM 1 - 16 direct / RS-232 (3-wire, DIN protocol)
- Interface converter / RS-485 (5-wire, DIN protocol)
- Ethernet (TCP/IP)
- Any combinations are possible

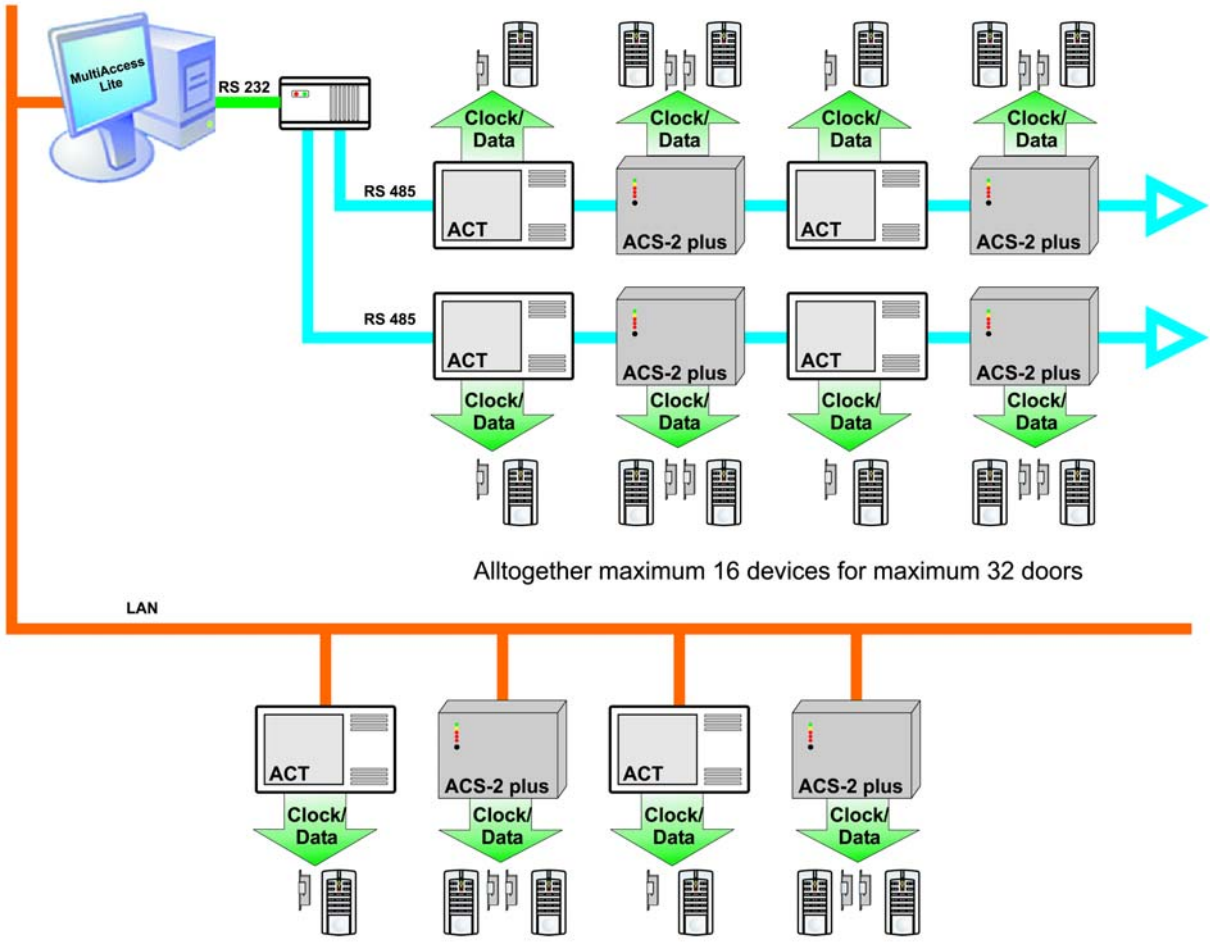
Access rights

- General authorisation (can be defined individually per person / data carrier)
- Time-/person-dependent door authorisation (assignment is done individually or by groups)
- For each door, the following can be defined:
  - Card only
  - Door code only
  - Door code and card
  - Door code or card
  - PIN only
  - PIN and card
  - PIN or card
  - Permanently locked
  - Permanently open

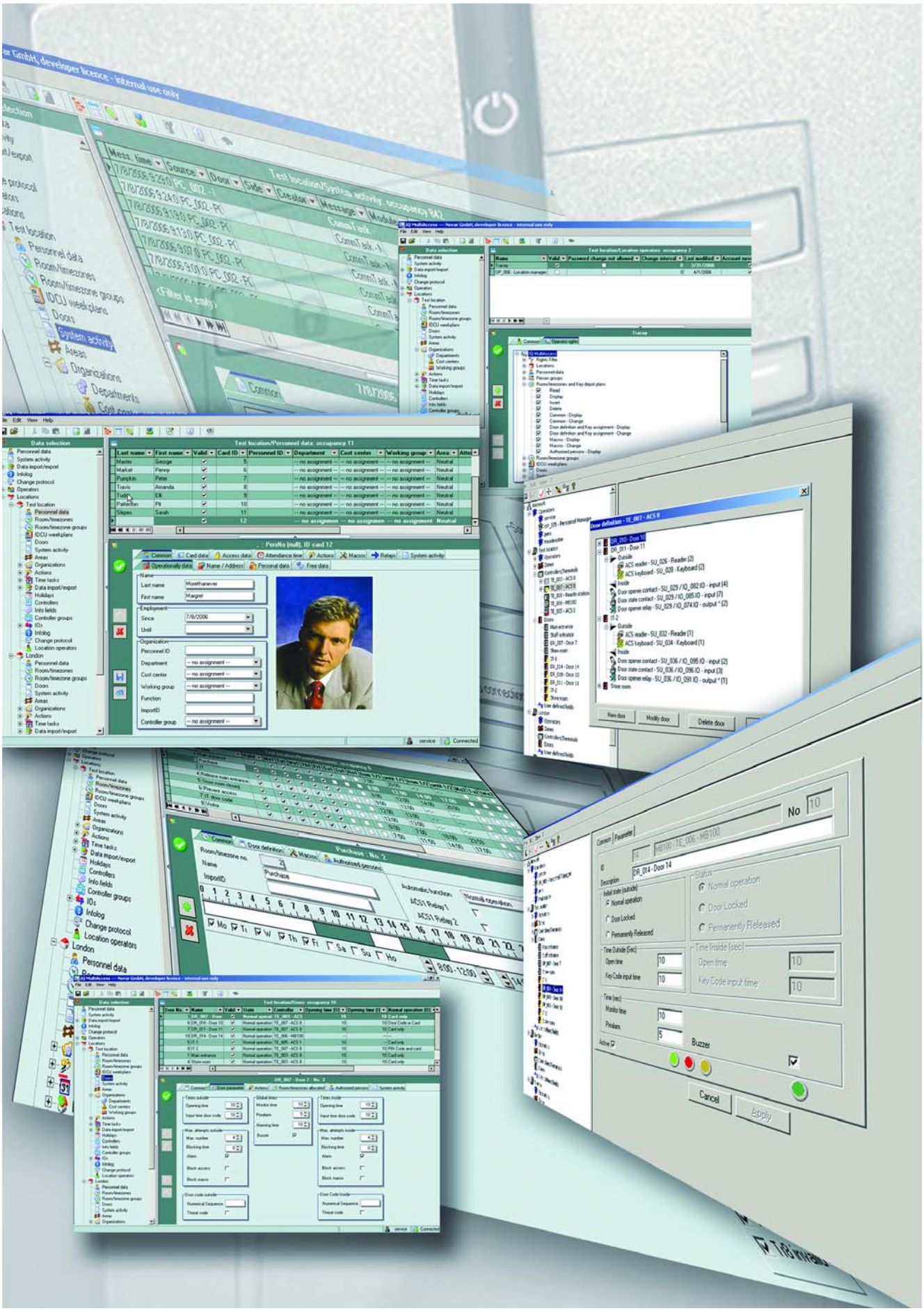
Application example



Installation diagram



IQ MultiAccess basic package / professional package



Product description

IQ MultiAccess is a completely new development and is based on a genuine **Client/Server architecture** having a high-speed database connection. This makes the AC system fully **scalable**, thus being virtually **no longer subject to any restrictions** with respect to the number of persons, doors, room/time zones, workstations.

The server redundancy and RAID systems give **very high availability** of the AC system. All data is transmitted with internal **encryption** and critical data is also memorised in encrypted form.

With the incorporation of **IQ NetEdit**, the hardware management was significantly upgraded, allowing to connect, apart from the older ACS-1, also all current ones (ACT, ACS-2, ACS-8) and TRS time recording terminals as well as the 561-MB24/48/100 intrusion detection control panels.

The **database system** used is the free-of-charge SQL database, which is part of the standard package and is installed automatically.

To connect existing SQL database systems (Oracle, IBM-DB2, MS-SQL server), the pro package is used. This requires familiarity with relational database systems.

IQ MultiAccess can be **"located"**, that is:

a) several companies can use the same system in a building ("client processing ability") with separate staff data management, although, for example, the entrance area is used by all companies. This results in economic advantages, since several companies can share the purchase of a system.

b) a company can use a system comprising several subsystems at several locations ("location ability").

Exactly specified write-only and read-only rights can be assigned to individual users by means of detailed **access protection via passwords**. In addition, the log file will save all system programmings. This increases the security of the system against misuse.

A **user interface** designed according to the most advanced ergonomic aspects allows you to become very quickly familiar with the system. It is possible to work simultaneously in several windows (tabbed views), important system messages are always in view.

Data are quickly selected via tree structures and lists, and an extensive staff master record including photo, signature and freely definable fields increases flexibility.

The access rights of the employees are entered and managed via graphics or directly.

Comprehensive **logging** allows, inter alia, short video sequences to be recorded and replayed upon activating a webcam ("gatekeeper module" from V3). To filter and evaluate are done very quickly via drag 'n' drop, and the reporting tool has been extended considerably. Thus, outputs as Excel, text, HTML and XML, files are now also possible.

All important AC functions from **MultiAccess for Windows** have been incorporated and extended or optimised:

For example, the zone change control can now also be done globally via the server, if desired. The 4-eye principle is now being offered with more flexibility (from V3).

The **integration** of IQ MultiAccess into other systems, such as time management systems, can now be carried out seamlessly via defined interfaces.

An **upgrade** of existing systems (MultiAccess for Windows, EnterpriseAccess, Multi-Access Lite) is done with suitable packages.

The **licensing** is now done in packages with a fixed number of employees. It can then be extended step by step at any time.

IQ MultiAccess standard package

Performance Features

System Description:

- Runs under Windows XP, Windows Server 2003 32-/64-bit version, Windows Server 2008 32-/64-bit Version (Foundation version not possible) and Windows 7 32-/64-bit version
- Complete Client/Server system for data security, high availability and scalability
- Download of client installations via browser
- Automatical updates of clients installations from server
- Already in the standard version, unlimited number of
  - Workstations
  - Controllers
  - Doors
  - Data carrier groups
  - Departments, Cost Centres, Work Groups
- Depending on location
  - 65,500 persons
  - 999 doors
  - 512 room/time zones

Connection possibillities:

- Connection of the controllers via RS-232, RS-485, Ethernet, RDT, intruder alarm control panels also via IGIS-LOOP.
- Automatic recognition of connected hardware
- Desktop reader for transponders (ID-cards, key fobs)
- Read/write desktop reader for mifare/LEGIC transponders
- Passport scanner
- Signature pad
- USB / IP camera
- Key depot

Security:

- Encrypted data transmission and storage

Update possible from:

- MultiAccess for Windows V7 / SP2
- IQ SystemControl
- MultiAccessLite
- EnterpriseAccess 2000
- NovaTime ZK

Main versions of IQ MultiAccess:

- **Basic package**, sorted by number of persons including license-free Firebird SQL database

  or

- **Professional package**, sorted by number of persons including preparation for connection to existing SQL databases.

In the standard version (one location):

- 65,500 persons
- 999 doors
- 512 room/time zones
- Detailled logging of all system events
- Unlimited number of
  - Workstations
  - Terminals
  - Doors
  - Data carrier groups
  - Departments, Cost Centres, Work Groups

Integration:

- Import tool for personnel data transfer from SQL databases or via LDAP-interface
- Export tool for personnel data transfer into XLS, TXT, HTML, XML formats
- Interface to WINMAG plus or WINMAG Lite for graphic building display and alarm monitoring
- Interface to fire detection systems, video monitoring and facility management via WINMAG
- Integration with intrusion detection technology, rescue route technology and time recording directly possible
- Connection to biometric system of access control (via ACS-8)
- Integrated ID-card creation



The most important functions (overview):

- Multi-client processing and multi-location ability via unlimited number of locations
- Modern clearly organised ergonomic interface for quick familiarisation and simplified operation
- Individual composition of all predefined list via drag´drop (sorting, filtering and grouping) can be saved as user profile
- WYSIWYG print from all lists, optional automatically via print server
- Export as xls, txt, htm or xml files
- Multi-person access control
- Public holiday calendar containing customisable public holiday formulae
- Date and time-related data carrier validity
- Changing of personal data and visitor data carriers by group
- Definition of visitor ID-cards with special authorizations
- Automation of certain processes via actions, scheduled tasks or freely programmable macros, e. g. automatical data backup, deleting automatically bookings older than x days, or if the logfile exceeds a certain size
- Authorization control via person-related users with individual passwords and rights
- Anonymous bookings if desired
- Interlocking door control
- Notification via SMS, E-Mail, Fax
- Fiducia approval for installation in R+V banks
- Print server
- Data import via LDAP interface or SQL databases
- Creation and control of macros
- Visualization via virtual aeria tableau
- Support of mifare DESfire EV1 with key change on the fly
- Visitor administration with individual visitor ID-cards. Input of personnel data possible by scanning the passport
- Connection of electronic offline and online cylinders as well as electronic fittings*
- For electronic cylinders DLC and electronic fittings DLF with proX, mifare and LEGIC reading technologies
- Data synchronisation via Palm® PDA* or laptop/notebook*
- Door list at the Palm / notebook* indicates which doors have already been programmed
- Display of tamper attempts and battery states
- Programming takes place via room/time zones in IQ MultiAccess
- Simple permanent release of a door equipped with automatic lock during working hours
- IQ Cylinder PC software performs the data exchange between IQ MultiAccess and the PDA (USB) or the laptop
- Data exchange between PDA/laptop and door cylinder/fittings via infrared interface

*Hardware not included

Access criteria:

- General authorization
- Transponders only (ID-card, key fob)
- Door code only
- PIN only
- Transponder and door code
- Transponder or door code
- Transponder and PIN
- Transponder or PIN
- Automatic zones for temporarily change of access criteria
- Multi-person access control (2 – 9 persons)
- Optional connection to biometric systems

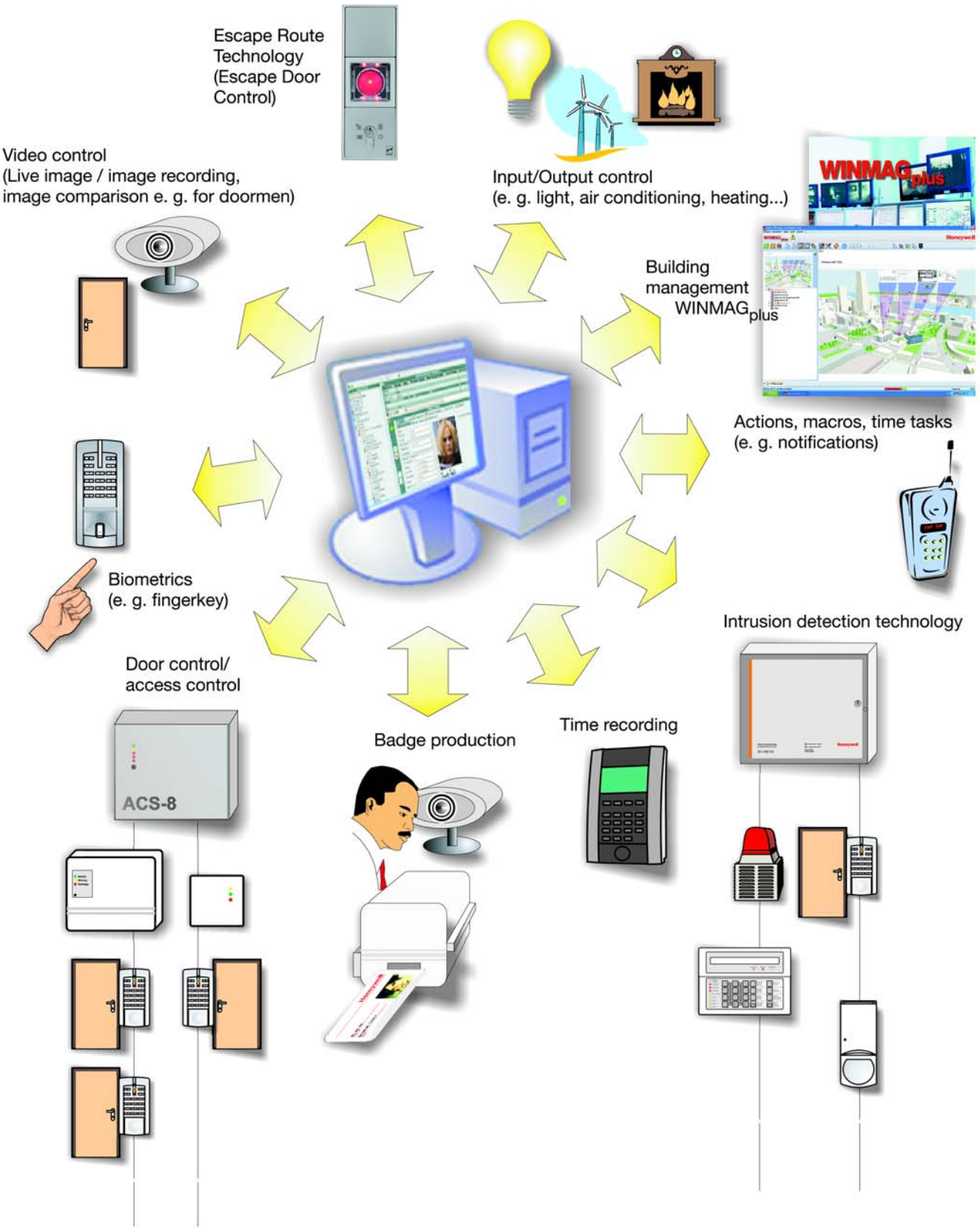
Options:

- Client processing ability (clients, locations, use of common doors by several clients)
- Antipassback with virtual area overview tableau, barring repeated entry, balancing (couter control for automation of facility management, e. g. parking lot control)
- Door guard module with image matching and storage of image sequences or live-monitoring (via TCP/IP-camera). Personnel check by random generator.
- Badges and forms management
- Administration of master file data of intruder alarm control panels 561-MB24/48/100 concerning arming/disarming, macros and access control authorizations. Control via virtual IACP operating unit
- Connection of digital locking cylinders and fittings

PC Requirements

	Recommended size		Minimum size	
	Server	Client	Server	Client
Processor	Pentium IV Athlon XP 2 GHz	Pentium IV Athlon XP >1 GHz	Pentium IV Athlon XP 1 GHz	Pentium IV Athlon XP 800 MHz
RAM	>512 MB	512 MB	512 MB	256 MB
Harddisk	>10 GB	1 GB	2 GB	512 MB
Security	RAID1 (= disk mirroring / UPS (= uninterruptable power supply)		RAID1 (= disk mirroring / UPS (= uninterruptable power supply)	
Screen with graphic card	19" 1152 x 864		17" 1024 x 768	
Operating system	Windows XP, Server 2003, Server 2008 and Windows 7			
further requirements	CD-ROM drive minimum 1 free serial interface Mouse, Trackball or any other Windows-compatible pointing device (PS/2 recommended)			
For network applications	Network card with TCP/IP-protocol			
For RDT	Modem or ISDN-card certified by Honeywell Security			

Possible field of application / Integration variety



Basic versions



Standard package, including Firebird database:
- Delivery on CD-ROM

For ordering the end user data sheet is required.

Very often a change from basic to professional package requires considerable involvement of the Albstadt´s research and development demartment.

Customer liaison and support for change of database is not included in the scope of delivery of IQ MultiAccess and must be ordered separately.
The exact effort must be specified individually. The day rate is 760,00 €.

029601 **Basic Version - IQ MultiAccess for 300 ID-cards**

029602 **Basic Version - IQ MultiAccess for 500 ID-cards**

029603 **Basic Version - IQ MultiAccess for 800 ID-cards**

029604 **Basic Version - IQ MultiAccess for 1,000 ID-cards**

029605 **Basic Version - IQ MultiAccess for 1,500 ID-cards**

029606 **Basic Version - IQ MultiAccess for 2,000 ID-cards**

029607 **Basic Version - IQ MultiAccess for 3,000 ID-cards**

029608 **Basic Version - IQ MultiAccess for 5,000 ID-cards**

029609 **Basic Version - IQ MultiAccess for 7,500 ID-cards**

029610 **Basic Version - IQ MultiAccess for 10,000 ID-cards**

029646 **Basic Version - IQ MultiAccess for more than 10,000 ID-cards**

029600 **IQ MultiAccess Demo Version**

For demonstration and test purposes:
- Manages a max. of 10 data carriers (persons)
- Communication with the access control central units is possible a max. 500 days after installation
- Only available as standard package (installation by enclosed SQL database)
- No options (several locations, zone change control, gate keeper module incl. image comparison, badging) available
- Simple update to fully functional version possible

IQ MultiAccess Pro package



Pro package, prepared for data storage in the standard SQL database, possible for:
- Microsoft SQL Server
- Oracle
- IBM DB/2
- others upon request
- Delivery on CD-ROM

Performance Features

see IQ MultiAccess standard package

For ordering the end user data sheet is required.

Very often a change from basic to professional package requires considerable involvement of the Albstadt´s research and development demartment.

Customer liaison and support for change of database is not included in the scope of delivery of IQ MultiAccess and must be ordered separately. The exact effort must be specified individually. The day rate is 760,00 €.

029631	**Professional Package - IQ MultiAccess, 300 cards, prep. f. SQL databases**
029632	**Professional Package - IQ MultiAccess, 500 cards, prep. f. SQL databases**
029633	**Professional Package - IQ MultiAccess, 800 cards, prep. f. SQL databases**
029634	**Professional Package - IQ MultiAccess, 1,000 cards, prep. f. SQL databases**
029635	**Professional Package - IQ MultiAccess, 1,500 cards, prep. f. SQL databases**
029636	**Professional Package - IQ MultiAccess, 2,000 cards, prep. f. SQL databases**
029637	**Professional Package - IQ MultiAccess, 3,000 cards, prep. f. SQL databases**
029638	**Professional Package - IQ MultiAccess, 5,000 cards, prep. f. SQL databases**
029639	**Professional Package - IQ MultiAccess, 7,500 cards, prep. f. SQL databases**
029640	**Professional Package - IQ MultiAccess, 10,000 cards, prep. f. SQL databases**
029647	**Professional Package - IQ MultiAccess, > 10,000 cards**

IQ MultiAccess database extension



IQ MultiAccess licence extension:
- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

For ordering the end user data sheet is required.

029611		**Database Expansion - IQ MultiAccess from 300 to 500 ID-cards**
029612		**Database Expansion - IQ MulitAccess from 500 to 800 ID-cards**
029613		**Database Expansion - IQ MultiAccess from 800 to 1,000 ID-cards**
029614		**Database Expansion - IQ MultiAccess from 1,000 to 1,500 ID-cards**
029615		**Database Expansion - IQ MultiAccess from 1,500 to 2,000 ID-cards**
029616		**Database Expansion - IQ MultiAccess from 2,000 to 3,000 ID-cards**
029617		**Database Expansion - IQ MultiAccess from 3,000 to 5,000 ID-cards**
029618		**Database Expansion - IQ MultiAccess 5,000 to 7,500 ID-cards**
029619		**Database Expansion - IQ MultiAccess 7,500 to 10,000 ID-cards**
029620		**Database Expansion - IQ MultiAccess > 10,000 ID-cards**

IQ MultiAccess Options

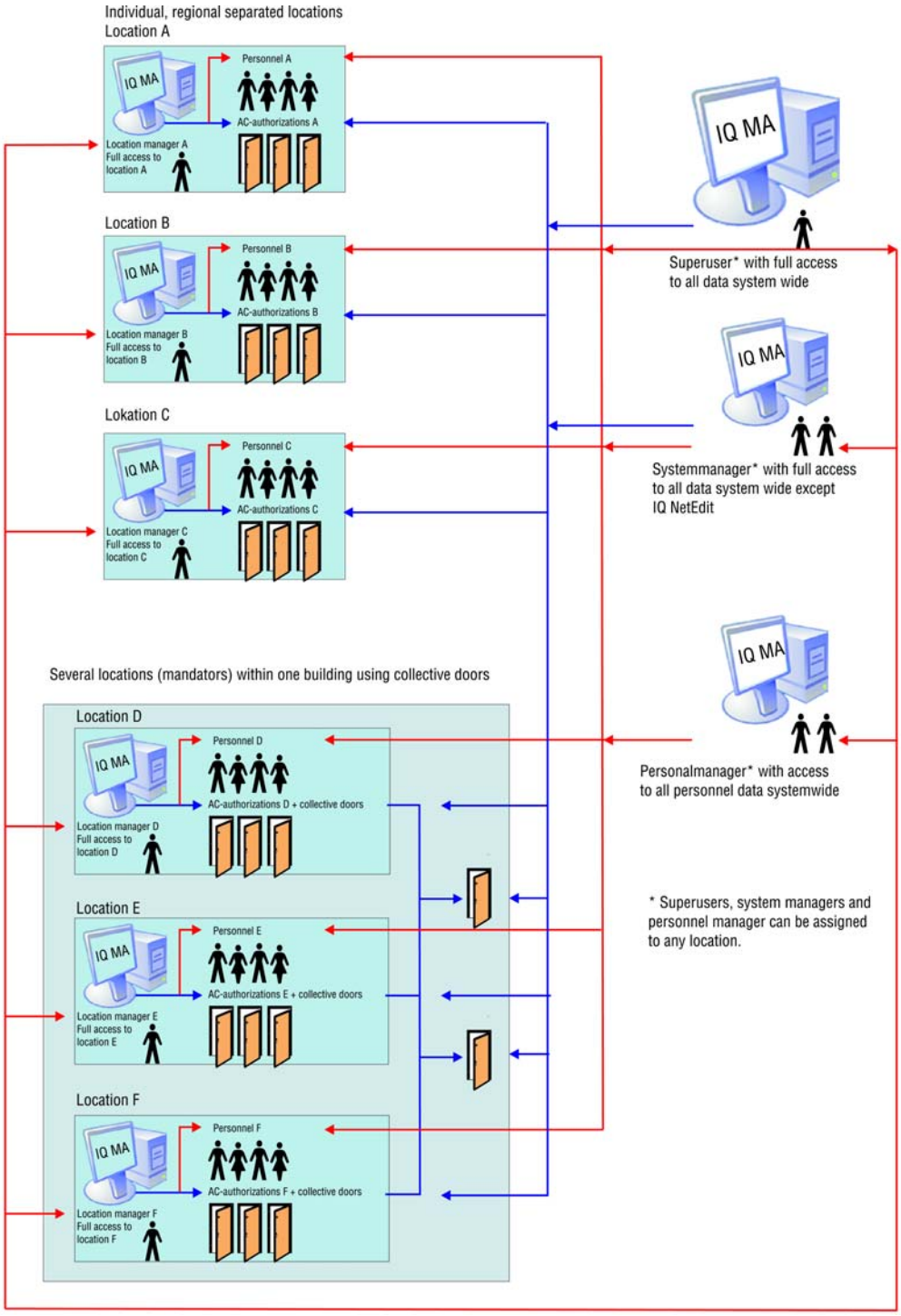
For ordering the end user data sheet is required.

029621 **Client processing ability, multi-location ability**

Honeywell OPTION Software

IQ MultiAccess extension package

Creation of any desired number of locations (in standard version only 1 location possible).
In addition, implementation of:
- Multi-client processing ability (several companies share a AC system in a building)
- Multi-location ability (a company is spread over several locations)
- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file



029622 Zone change control, balancing, blocking of repeated access options

Honeywell OPTION Software

IQ MultiAccess extension package

All functions can also be carried out globally, i.e., for ALL connected doors, via a server process, this requires a permanent server operation.

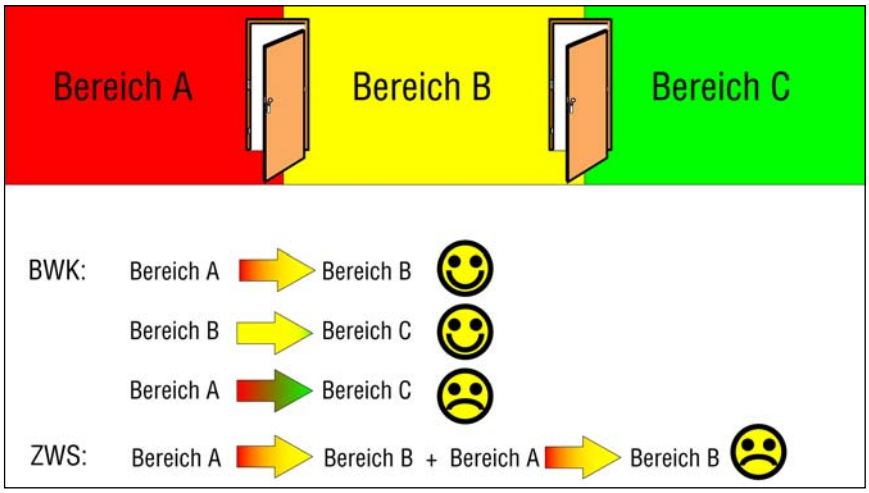
Barring repeated entry (BRE) at the level of the access control panel, globally (via server).

The barring repeated entry function checks whether a blocking time has been defined for the ID card used for booking in the zone to be entered.

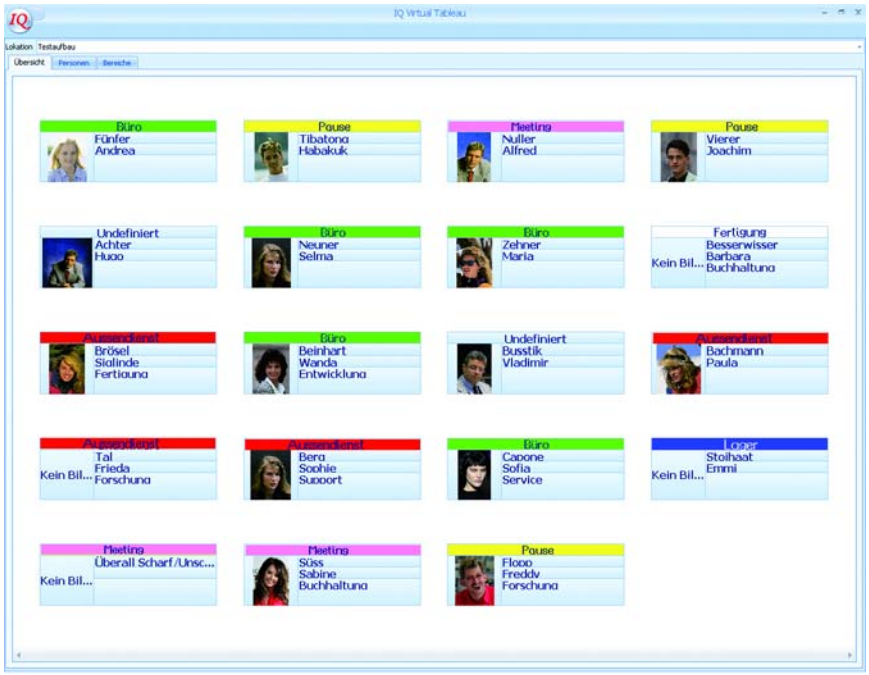
Balancing of the persons registered in the areas in questions as present or absent and the event control based on this (counter control), for example activation of building automation when last person has left the area.

Anti pass back at the level of the access control panel, globally (via server).

The antipassback function checks whether the ID card used for booking is currently in the zone which it is about to leave.



Zone panel



Virtual PC area tableau
for clear coloured display of the zones and of the persons in it in tabular form.

- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

029624 **Gate keeper module with image comparison option**

IQ MultiAccess extension package:

- Automated comparison of the identification photo with the person just entering
- Special module tailored to the gate keeper's tasks
- Photographing the person just entering by live camera (webcam or the like) possible (camera not included)
- Storage of short image sequences on hard disk
- Identity check by random generator
- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file



Image comparison - display only or enabling/disabling option



Image comparison - person´s check via ramdom generator

029625 ID card and form management option

IQ MultiAccess extension package:

- Taking pictures by USB and webcams*
- Easy control and triggering of the camera from IQ MultiAccess
- Signature capture via signature pad*
- Transfer of personnel data via passport/document scanner
- Creation of data carrier and formula designs
- Integration of images and logos
- Printout on card printers and standard printers
- Printout of staff and visitor data carriers
- Printout of forms for staff briefing and visitor data carriers

- All settings are preserved
- All data are transferred
- for standard and pro packages
- possible later on at any time
- Simple installation via a single licence file

*Hardware not included



Function chart

Recommended signature pads:

SigLite 1x5 LCD (T-LBK460SE-H170)
SigGem 4x3 LCD (T-LBK755SE-BHSB)

Signature pads can be purchased from:

signotec
Am Gierath 20 b
D-40885 Ratingen
Phone: +49 (0) 2102/53575-10
Fax: +49 (0) 2102/53575-39
info@signotec.de
www.signotec.com

Passport scanner DESKO MPR 7100

DESKO
Gottlieb-Keim-Str. 56
D-95448 Bayreuth
Phone: +49 (0) 921/792790
Fax: +49 (0) 921/7927914
info@desko.de
www.desko.de

For ordering the end user data sheet is required.
Please note, that the above mentioned companies are not part of Novar GmbH and a separate contract must be placed.
Novar GmbH is in no case responsible for products or services of those companies.

029626 **Connection to intrusion detection control panel option**

Honeywell OPTION Software

IQ MultiAccess extension package

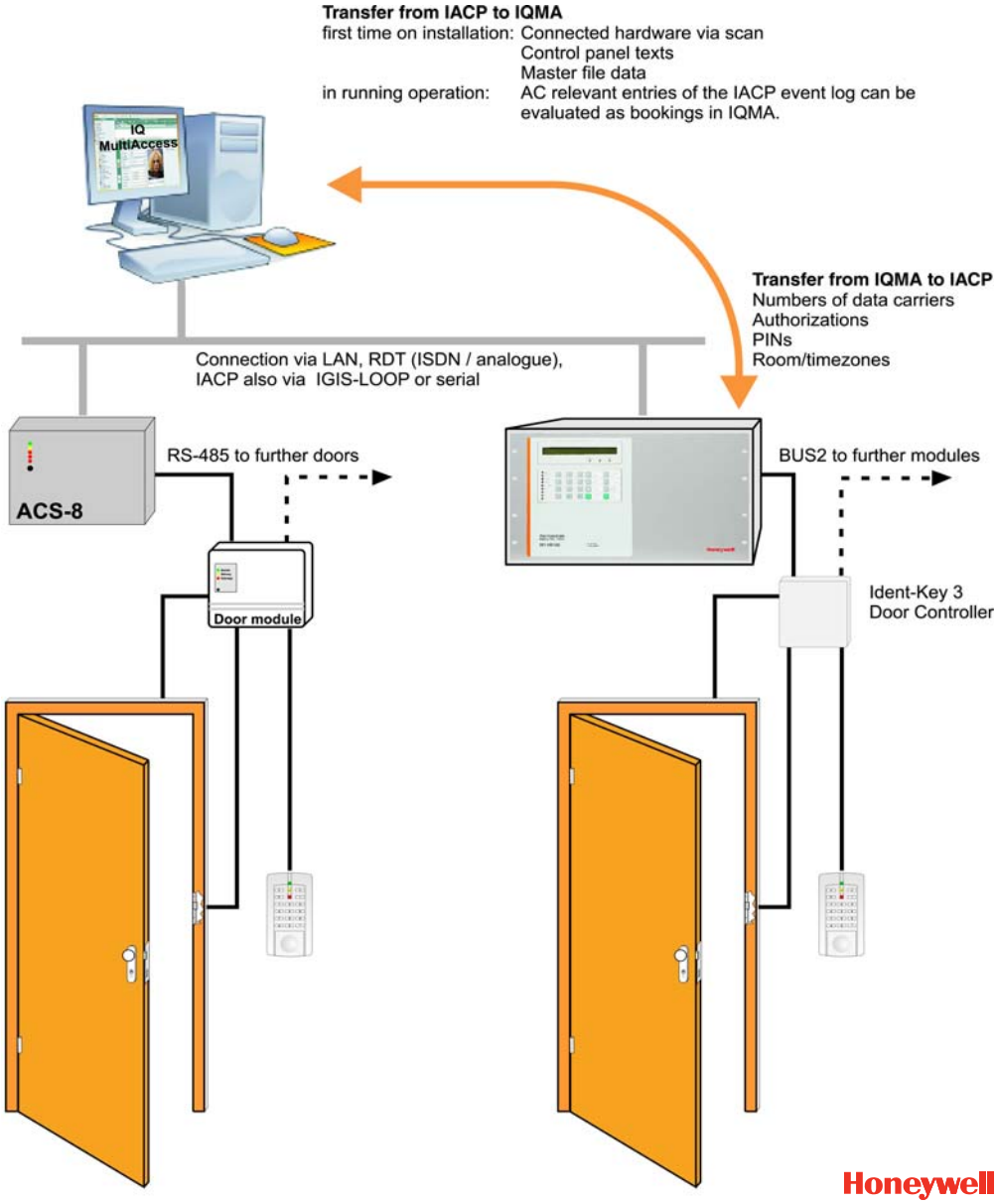
- Integration of MB100 (order no. with index .10), MB48 and MB24 into IQ MultiAccess by on-demand connection per ISDN or analogue or dedicated line connection by TCP/IP (including encryption) via the control panel dialler or IGIS-LOOP.
- Automatic recognition and installation of the intrusion detection control panel hardware in IQ NetEdit.
- Bidirectional data exchange between IQ MultiAccess and intrusion detection control panel. Master data from the intrusion detection control panel are retrieved by IQ Multi Access and managed centrally from this point onward. (Data carriers, room/time zones, rights for access, arming/disarming and controls.) The intrusion detection control panel transmits events as bookings to IQ MultiAccess.
- User rights can be set in accordance with VdS by mouse click.
- The virtual operating unit “IQ User ContorlCenter” option enables arming / disarming, switching on / off detector groups, viewing alarm and event memory, activating walk test, starting macros and maintenace functions of all intruder alarm control panels connected to IQ MultiAccess.
- Entries of the event memory of the IACP can be evaluated in IQ MultiAccess by using all the advantages of individual list layout. Last but not least, there are export functions to the data formats EXCEL, TXT, HTML and XML.
- This allows limited AC functionality with the MB control panel.
  For the full AC functionality, ACS-2/8 are required.

The integrated option “IQ User ContorlCenter” enables:

- arming/disarming
- blocking/enabling of detector groups
- display of alarm and event memory

of all IACPs connected to IQ MultiAccess

- activating of walk test
- macro triggering
- maintenance functions



013598 Option IACP User ControlCenter for PC for IQSC or IQMA



Option IACP-connection to IQ MultiAccess (029626) and IQ SystemControl (013596) contain one virtual operating unit each.

Further virtual IACP operating units (013598) are only required when additional operating units need to be operated simultaneously (e.g. on seperate computers).

For ordering the end user data sheet is required.

Upgrades

* The following items are upgrades basic packages of IQ MultiAccess.

Very often a change from basic to professional package requires considerable involvement of the Albstadt´s research and development demartment.

Customer liaison and support for change of database is not included in the scope of delivery of IQ MultiAccess and must be ordered separately. The exact effort must be specified individually. The day rate is 760,00 €.

029641 MultiAccess for Windows upgrade to IQ MultiAccess



- Automatic update procedure*
- Transfer of the following components created in MultiAccess for Windows V7.1: System data, hardware, device groups, macros, departments, calendar days and public holidays, time zones and automatic zones, personal records, actions, doors
- Uses the option packages already purchased for MultiAccess for Windows
- Update to the same or the next higher number of staff
- Updates of predecessor versions of MultiAccess for Windows V7.1 must have been performed previously to V7.1 and are included in the package.

029642 Upgrade MultiAccess Lite to IQ MultiAccess



- Automatic update procedure*
- Transfer of the staff records stored in MultiAccess Lite
- Transfer of the created access control central units and doors
- Update to 800 persons

029643 Upgrade IQ SystemControl to IQ MultiAccess



- Update to 600 persons*
- Continued use of all connected intrusion detection control panels, expandable by access control panels and door elements

029645 Upgrade of IQ MultiAccess predecessor version to latest version



- Automatic update procedure*
- Uses the selected SQL database
- Transfer of the stored personnel records
- Transfer of the created access control central units and doors
- Uses the already purchased option packages
- Update to the same number of staff



Wireless door systems

- DLC digital locking cylinders online/offline
- DLF fittings online/offline

Wireless access control / arming/disarming

Doors to which wiring is not possible or desired can alternatively be equipped with electronic door cylinders or fittings.

Both products are available as **offline** and **online** solution and can be used in addition to the wired installation type.

Both variants can be used with access control systems (ACS-8 with IQ MultiAccess) as well as with intruder alarm control panels of the 561-MB24/48/100 series with IQ SystemControl.

With the **offline** variant a mobile medium (Palm® or notebook/laptop) is used for the manual transfer of access authorizations of IQ MultiAccess or IQ SystemControl to the cylinder / fitting and access bookings from the door to IQ MultiAccess or IQ systemControl.

The **online** variant communicates via radio using a Trafficpoint RS-485 which is connected to an ACS-8, an IK3 evaluation unit or an AC door module BUS-2.

Initial programming requires a laptp or Palm®.

A maximum of 8 Trafficpoints RS-485 can be connected to one ACS-8, IK3-EU, AC door module BUS-2. Each Trafficpoint RS-485 can handle a maximum of 8 cylinders / fittings, however the maximum number of doors of ACS-8, IK3-EU, AC door module BUS-2 must not be exceeded.

The maximum number of data carriers and switching devices is determined by the panel the cylinders/fittings are connected to.

Online cylinders/fittings connected to an IK3-EU can additionally be used for arming / disarming with separate transponders.

Communication to cylinders and fittings

Data transfer from / to door cylinders / fittings from now on also possible via laptop / notebook.

The new laptop / notebook data transfer solution offers a comfortable variant to the present data transfer from / to the door cylinders / fittings via Palm® / PDA.

Here the communication software XS-Manager*, IQ Cylinder* or WINFEM* are installed on a laptop / notebook communicating via an infrared interface with the door cylinders / fittings. Appropriate adaptors and fasteners see accessories.

* Included in the respective software package



From now on this type of data transfer is available for the offline variant alternatively to the transfer via a PALM (once required by the system user). Generally a migration from the Palm®/PDA to the laptop/notebook variant is possible.

Important for the installer:

The **online** cylinders / fittings must **once** be initialized during the installation by either of the two vatriants (laptop or Palm®). After this only the system user is able to administrate the respective doors online without any further accessories.

022963 **Trafficpoint RS-485 for DLC and DLF online**

NEW

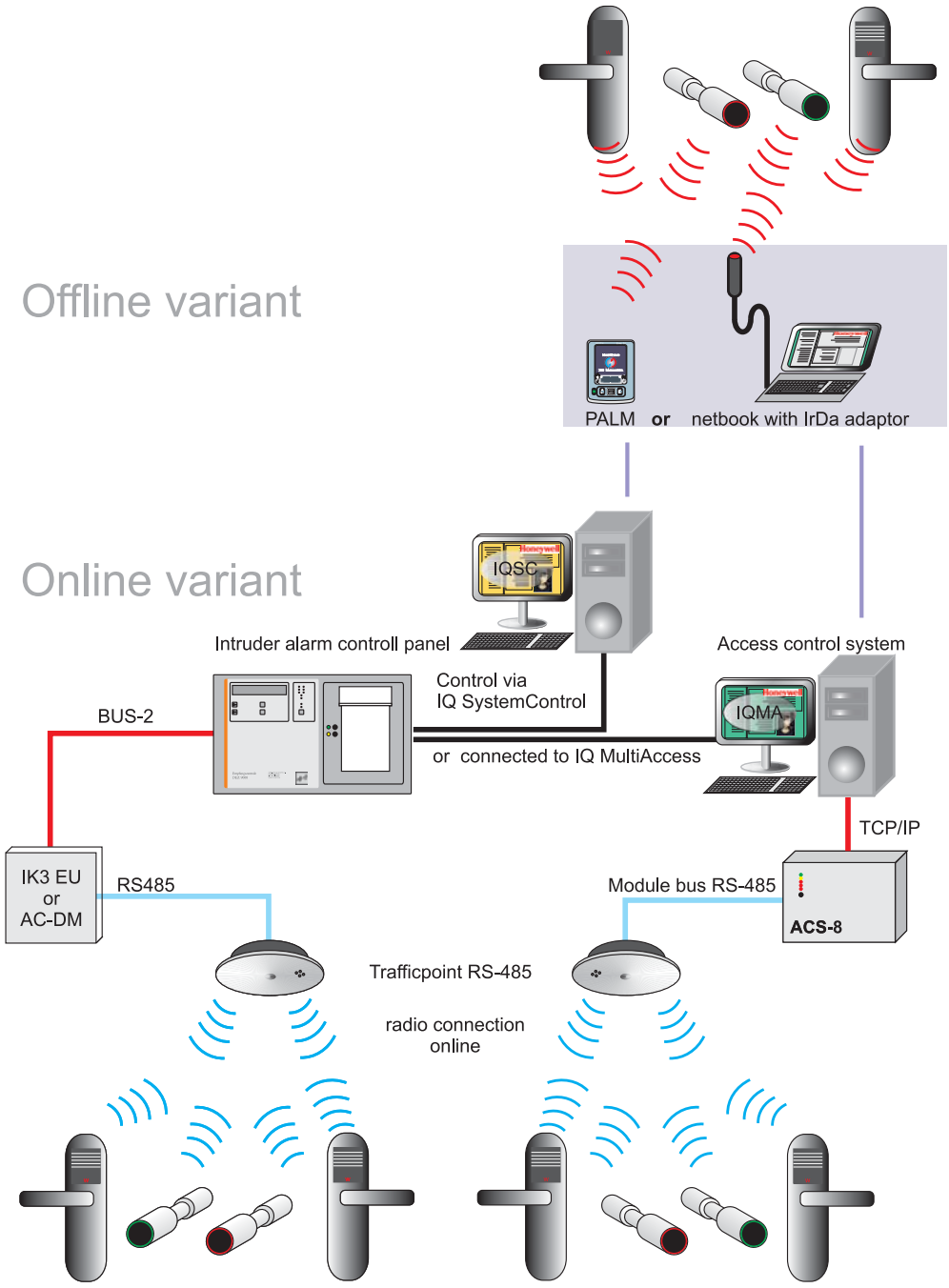


For communication with online DLC door cylinders and online DLF fittings. Connection via RS-485 interface to ACS-8, IK3-EU or AC door module BUS-2.

Technical Data

Rated operating voltage	12 V DC
Rated operating voltage range	9 V to 36 V DC
Current consumption	40 mA with 12 V DC, 20 mA with 24 V DC
Transmit frequency	ISM-Band (SRD), 865 MHz to 870 MHz, programmable in 5 steps
Range	10 m
Permitted minimum distances	- between trafficpoints min. 2 m; - DLC/DLF to trafficpoints min. 1 m
Interface	RS-485 modue Ibus
Type of protection DIN 40 050	IP 30
Environmental class as per VdS	II
Operating temperature range	-5 °C to +40 °C
Dimensions with closed housing (H x Ø)	110 x 57 mm
Colour	greywhite, similar to RAL 9002

Application example



DLC reader modules proX / LEGIC / mifare



Performance Features

- Electronic modular cylinder
- Automatic activation upon approach or by turning the outer door knob
- Data preservation through non-volatile memory
- Memory capacity: 99 badges via Mastercard (022903) or 2,000 badges via PDA/IQ MultiAccess, with online connection via radio the maximum values of the connected panels (ACS-8 / MB24/48/100) are valid.
- Dynamic event memory
- Proximity reader, for badges according to ISO 7816 ID-1 the typical reading distance is about 2 cm
- Reading methods:
  - Offline cylinders: proX, IK2/3, LEGIC prime, mifare classic
  - Online -cylinders: proX, IK2, IK3 (UID)
- Interfaces:
  - Offline: IrDa, range max. 30 cm
  - Online: additionally radio (ISM-Band), range max. 10 m
- Tamper monitoring
- Conform to fire protection requirements according to EI290 in conjunction with a suitable fire barrier (e. g. T90 door). Proof of suitability in connection with the corresponding fire and smoke protection door required.
- Quick mounting without drilling
- No wiring required
- For all DIN locks with Euro profiled cylinders
- Low storage capital lockup through modular design
- Simple programming by MasterCard, PDA or mobile PC
- Transfer of all manipulation and tampering attempts to higher-ranking software
- Emergency opening via special installation tool
- Quick and safe battery change
- Access via proximity card or fob, including:
  - proX1 (IK2), proX2 (IK3 without rolling code), Transponders (022900/022903)
  - LEGIC transponders (022901)
  - mifare transponders (022902)
- Arming/disarming of IACP via separate transponders for online version

The DLC cylinder from this product line is an autonomous access control for proximity cards and transponders reduced to one door cylinder.

This wireless access control component enables uncomplicated mounting and retrofitting to existing doors by simply replacing the door cylinder.

The cylinder body of the DLC cylinder is designed in modular form, allowing it to be used for all door thicknesses from 50 to 110 mm plus strike plates.

Various access requirements can be implemented by means of the DLC cylinder:

- Double door knob cylinder with electronic access control on one side
- Double door knob cylinder with access control on both sides (including different ones)
- Electronic half cylinder

The DLC cylinder is a battery-operated locking unit for universal use, consisting of a reader module, an extension adapter and a mechanical inner knob.

The reading electronics and the mechatronics together with the batteries are inside the reader module. Since the DLC cylinder reader module is mounted by means of a Euro profile cylinder adapter, conventional locks for DIN Euro profile can be used, not requiring any complicated mounting. This makes the DLC cylinder a low-cost solution for new buildings and also for existing premises. A wide range of transponder carriers can be used as identity cards, such as ISO cards, key rings, clocks, etc.

The entry and modification of access data as well as the read-out of bookings and logs for evaluation with offline cylinders take place via an IrDA interface accessed via a PDA or a laptop / notebook. The XS Manager communication software installed there ensures data exchange between the DLC cylinders and the IQ MultiAccess access control software provided with the “Locking cylinder integration” option or the intruder alarm control panel data administration software IQ SystemControl.

Online cylinders are connected via radio and behave like hard wired doors.

To prevent any mechanical attack on exposed surfaces, the cylinder adapter should end flush with door fitting, if possible.

It should project no more than two millimeters.

When using two reading heads at the same time, the cylinder adapter must be at least 65 mm long (e.g. 35 x 30 mm).





Dimensional drawing

System requirements:

- ACS-8 firmware V8 or higher
- 561-MB24/48/100 firmware V12 or higher
- IK3 EU firmware V11 or higher
- AC door moduel BUS-2 firmware V11 or higher

Programming and data transfer

With offline cylinders via PALM® with PC software

- IQ MultiAccess V7 or higher or
- IQ SystemControl V2 or higher

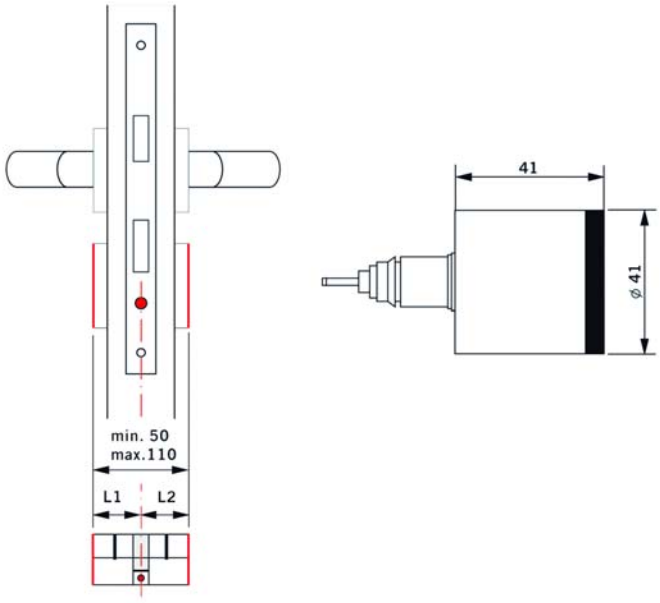
With offline cylinders via PC with PC software

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher

With online cylinders

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher or
- WINFEM Advanced V12 or higher

The required cylinder adapter dimension is determined by measuring either the profile cylinder installed in the door or the door and fitting thicknesses. This gives lengths L1 and L2, which are compared with the cylinder adapter dimensions.



Dimensions in mm

Technical Data

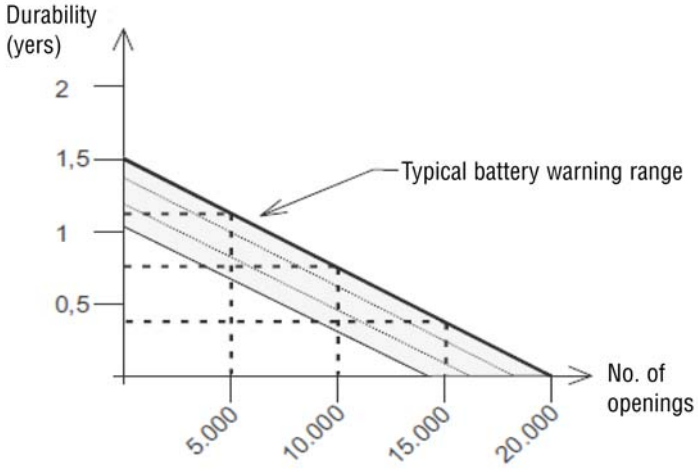
Operating temperature range	-20 °C to +65 °C
Storage temperature	-40 °C to +85 °C
Battery type	2 x Typ CR-2, 3 V Lithium
Battery durability	see graphics, Emergency power supply possible via external voltage lead
Class of protection	As per EN 60950 - device with internal power supply
Type of protection	IP 66
Humidity class	0...95%rH, no condensing
Display	1 x Duo-LED (red/green) with illuminated ring
Backset	Suitable for DIN mortise locks with bolt length >35 mm DIN left and DIN right; door thickness 50 - 110 mm
Dimensions (Ø x L)	Electronic reading module: Ø 40 mm, 41 mm long; Mechanical knob, small: Ø 29,5 mm, 20 mm long; Mechanical knob, large: Ø 34 mm, 20 mm long
Housing colour	Cylinder and knob housing: stainless steel, Reader cover: anthracite
Weight	Reader head: 174 g (ready for operation)

Battery

Lifecycle at room temperature (+20°)

Typical number of locking cycles:	HITAG / EM: 20,000
Typical lifecycle if not operated:	HITAG / EM: 2 yeras

The mentioned cycle numbers are valid for reading the UID of the appropriate transponder. Different configurations of the reading properties can reduce the number of cycles by up to 40%



022960.10 **DLC proX online reader module, outer knob for digital locking cylinders**

With illuminated ring. Online connection via Trafficpoint RS-485 for DLC and DLF online 022963.

Recommended key fob: item no. 022190.

022900.10 **DLC proX offline reader module, outer knob for digital locking cylinders**

With illuminated ring.

022901.10 **DLC LEGIC offline reader module, outer knob for digital locking cylinders**

022902.10 **DLC proX offline reader module, outer knob for digital locking cylinders**

With illuminated ring.

022903.10 **DLC proX MasterCard reader module, outer knob for digital locking cylinders**

With illuminated ring. Programming via Master Card Set, max. 99 persons

You can produce the Master Card Set yourself by using 3 proX/IK2 proximity cards, Example: Art. No. 026370.00.

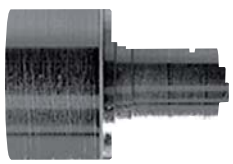
Accessories for online and offline cylinder

022910 **DLC battery pack for digital locking cylinders**



Battery pack consisting of two single batteries type CR 2 lithium. Batteries for fitting a DLC reader module.

022914 **Small DLC inner knob for digital locking cylinders**

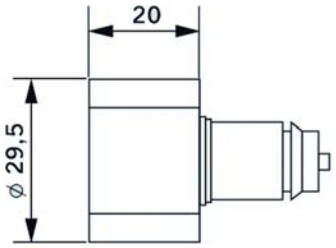


Mechanical knob to be combined with DLC cylinder components.
Design: stainless-steel-like with recessed grip

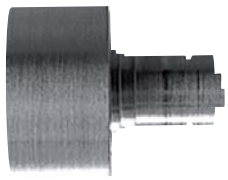
Technical Data

Diameter	29,5 mm

Dimensional drawing



022915 Large DLC inner knob for digital locking cylinders

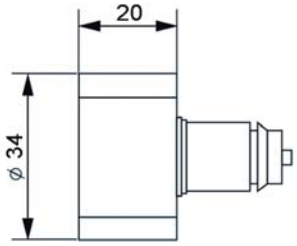


Mechanical knob to be combined with DLC cylinder components.
Design: stainless-steel-like with recessed grip

Technical Data

Diameter	34,0 mm

Dimensional drawing



022916 DLC plug for digital locking cylinders



Plug for closing the core hole of a cylinder adapter used on one side only.
(Not for use with half cylinder adapter)

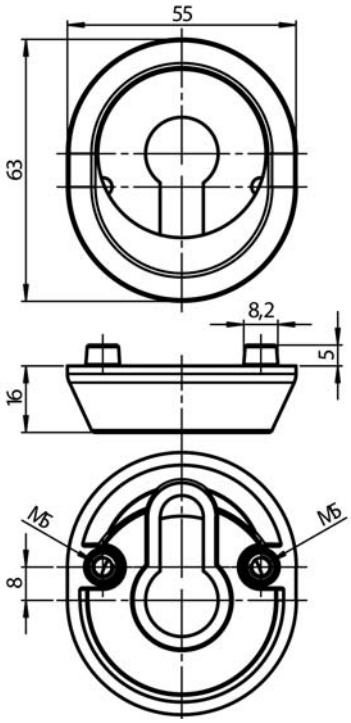
022917 DLC protective rosette for digital locking cylinders



To increase the mechanical protection of the DLC cylinder from vandalism. By using the protective rosette with the DLC cylinders, the performance requirements of locking cylinders for locks in accordance with DIN EN 1303 are met.

When measuring the dimensions, an additional 8 mm must be included for the outside and 9 mm for the inside.

Dimensions in mm



022909 IrDA-USB adaptor



For data transfer from notebook USB from/to infrared interface of the cylinders/fittings.

022908 DLC Servicetool



For attachment and adjustment of the IrDA-USB adaptor (item no. 022909) at the door and for attachment of the DLC emergency power supply tool for digital locking cylinders (item no. 022912).

022911 DLC battery changing tool for digital locking cylinders

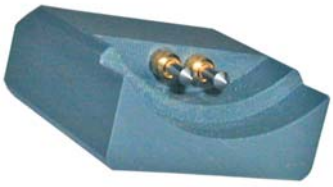


Battery changing tool for convenient battery change of DLC reader modules.

Attention: The battery change is only possible if in possession of the battery change right allocated to the reader module.

Recommended for maintenance purposes.

022912 DLC emergency power tool for digital locking cylinders



Energising unit for DLC reading modules.

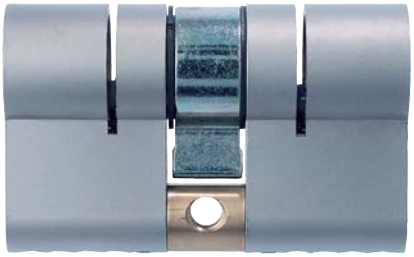
The energising unit allows the reading module to be supplied with power from outside, even after the current has fallen below the third warning threshold. It is supplied with power via the contact pins on the front of the reading module and the spring contacts of the energising unit from a 9 V block battery 6LR61 (not included in the delivery).

Technical Data

Dimensions	35 x 30 x 18 mm

Recommended for maintenance purposes.

DLC cylinder adapters



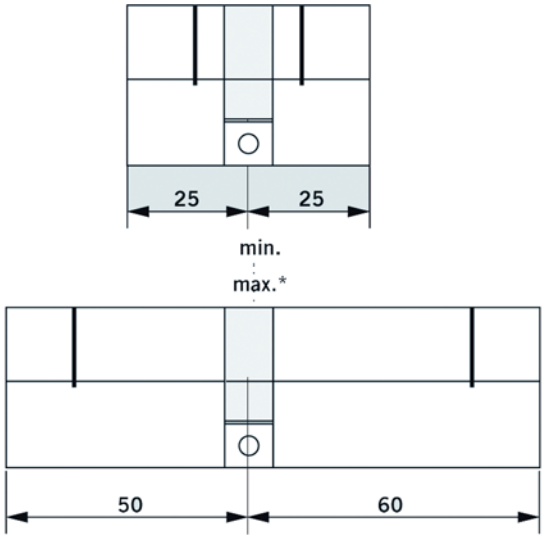
Cylinder adapter to be combined with DLC cylinder components. Suitable for direction-independent installation in PZ locks according to DIN 18251.

Profiled cylinder in modular design from 25/25 mm to 50/60 mm, other dimensions upon request.

Separately from the DLC cylinder adapter, the following components must be ordered:

- Electronic reading module for access side (022900-903)
- DLC battery pack (022910)
- Mechanical DLC door knob (022914-915)
- Plug (022916)
- Electronic reading module for access side (022900-903)

Cylinder adapter lengths must be selected in accordance with the door details, taking into account the selected fittings. When using the DLC protective rosette, an additional 8 mm must be included for the dimensions of the outside and 9 mm for the inside.



Dimensional drawings

*Special length on request, see item no. 022953.

022920 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 25 mm

022921 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 30 mm

022922 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 35 mm

022923 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 40 mm

022924 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 45 mm

022925 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 50 mm

022926 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 55 mm

022927 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 60 mm

022928 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	30 x 30 mm

022929 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	30 x 35 mm

022930 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	30 x 40 mm

022931 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 30 x 45 mm

022932 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 30 x 50 mm

022933 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 30 x 55 mm

022934 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 30 x 60 mm

022935 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 35 x 35 mm

022936 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 35 x 40 mm

022937 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 35 x 45 mm

022938 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 35 x 50 mm

022939 **DLC adapter for digital locking cylinders**

Technical Data
Dimensions 35 x 55 mm

022940 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	35 x 60 mm

022941 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 40 mm

022942 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 45 mm

022943 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 50 mm

022944 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 55 mm

022945 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 60 mm

022946 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 45 mm

022947 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 50 mm

022948 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 55 mm

022949 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 60 mm

022950 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 50 mm

022951 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 55 mm

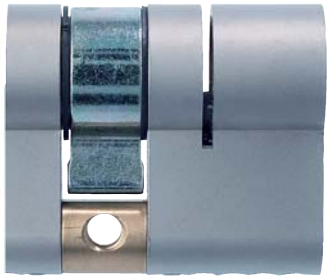
022952 **DLC adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 60 mm

022953 **DLC adapter, special length for digital locking cylinders**

Technical Data	
Dimensions	special length

DLC half cylinder adapter



Half cylinder adapter to be combined with DLC cylinder components.

Suitable for installation in key switches.
Profiled cylinders from 25/10 mm to 50/60 mm.

Separately from the DLC cylinder adapter, the following components must be ordered:
- Electronic reading module (022900-903)
- DLC battery pack (022910)

Half cylinder adapter lengths must be selected in accordance with the details, taking into account the installation.

When using the DLC protective rosette, an additional 8 mm must be included for the dimensions of the outside.

022954 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	25 x 10 mm

022955 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	30 x 10 mm

022956 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	35 x 10 mm

022957 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	40 x 10 mm

022958 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	45 x 10 mm

022959 **DLC half cylinder adapter for digital locking cylinders**

Technical Data	
Dimensions	50 x 10 mm

DLF fittings proX / LEGIC / mifare



Performance Features

- Electronic modular fitting for indoor user
- Automatic activation upon approach or by turning the outer door knob
- Data preservation through non-volatile memory
- Memory capacity of the offline variant 2,000 master records, with online connection via radiothe maximum values of the connected panels (ACS-8 / MB24/48/100) are valid.
- Dynamic event memory
- Proximity reader, for badges according to ISO 7816 ID-1 the typical reading distance is about 2 cm
- Reading methods:
  - Offline cylinders: proX, IK2, IK3, LEGIC prime, mifare classic
  - Online -cylinders: proX, IK2, IK3 (UID), LEGIC prime, mifare classic
- Interfaces:
  - Offline: IrDa, range max. 30 cm
  - Online: additionally radio (ISM-Band), range max. 10 m
- Tamper monitoring
- Arming / disarming via separate transponders with online variant connected th IACP (IK3-EU)
- Fire protection:
  - Optional fire protection kit on request
  - Quick mounting
  - No wiring

System requirements

- ACS-8 firmware V8 or higher
- 561-MB24/48/100 firmware V12 or higher
- IK3 EU firmware V11 or higher
- AC door moduel BUS-2 firmware V11 or higher

Programming and data transfer

With offline cylinders via PALM® with PC software:

- IQ MultiAccess V7 or higher or
- IQ SystemControl V2 or higher

With offline cylinders via PC with PC software:

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher

With online cylinders:

- IQ MultiAccess V10 or higher or
- IQ SystemControl V5 or higher or
- WINFEM Advanced V12 or higher

The DLF fitting from the DLC/DLF product line is an automatic access control integrated into a door fitting for proximity cards.

The DLF access control has the advantage that it can be retrofitted to already existing doors without any wiring work. The DLF fitting is installed by simply replacing the door fitting.

Access control runs completely autonomously. With the offline variant all required data like access authorization, time plans, calendars and special days are stored in the device itself. When an employee logs in, his/her authorisations are checked by the DLF fitting, and the door handle is unlocked if the result is positive. In the no-load status, or when the booking result is negative, the door handle will remain locked and the door remain closed.

The entry and modification of access data as well as the read-out of bookings and logs for evaluation with offline fittings take place via an IrDA interface accessed via a PDA or a laptop / notebook. The XS Manager communication software installed there ensures data exchange between the DLF fittings and the IQ MultiAccess access control software provided with the “Locking cylinder integration” option or the intruder alarm control panel data administration software IQ SystemControl.

Online fittings are connected via radio and behave like hard wired doors. They receive their authorizations from the superior panel (ACS-8, IK3 EU or AC door rmodule BUS-2).

The mechanical functions correspond th the offline version.

In standby mode, the DLF fitting works largely de-energised. Activation takes place automatically upon approach. The minimum power supply is provided by replaceable commercially available batteries.

Technical Data

Operating temperature range	+5 °C to +50 °C (internal)
Storage temperature	-20 °C to +70 °C
Humidity range	0 to 80%, non-condensing
Battery type	4 x 1,5 V AA-Zellen Alkaline
Battery durability	ca. 2 years with 20 operations per day
Class of protection	According to EN 60950 - device with internal power supply
Type of protection	IP 20
Display	1 x Duo-LED (red/green), 1 x signalling device
Bolt length	For DIN mortise locks with bolt length >35 mm DIN left or DIN right; door thickness 32 - 105 mm
Dimensions (W x H x D)	66 x 242 x 79 mm
Housing colour	Housing: similar to stainless steel
Weight	ca. 1,250 g

With each DLF Offline fitting - item no. 022970 - 022981 - there is included one DLF cylinder single lock 022993 with suitable single lock keys.

Accessories:

Separately from the DLF fitting for the access side, the following components must be ordered:

022984	DLF escutcheon, 72 mm
022985	DLF escutcheon without holes
022986 - 022991	DLF mounting kit
022994	DLF monokey slot cylinder
022996	DLF key for monokey slot cylinder
022908	DLC Servicetool
022909	IrDA USB Adaptor
022963	Trafficpoint RS-485 for DLC and DLF online

022964 **DLF proX online fitting, handle left, 72 mm**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022965 **DLF proX online fitting, handle right, 72 mm**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022966 **DLF LEGIC online fitting, handle left, 72 mm**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022967 **DLF LEGIC online fitting, handle right, 72 mm**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022968 **DLF mifare online fitting, handle left, 72 mm**

Online connection via Trafficoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022969.99 **DLF mifare online fitting, handle right, 72 mm**

Online connection via Trafficpoint RS-485 for DLC and DLF online 022963 (see online cylinders).

Accessories:

022908 DLC Servicetool
022909 IrDA-USB Adaptor

022970 **DLF proX offline fitting, door handle left, 72 mm**

022971 **DLF proX offline fitting, door handle right, 72 mm**

022972.99 **DLF proX offline fitting, without perforation, door handle left**

022973 **DLF proX offline fitting, without perforation, door handle right**

022974 **DLF LEGIC offline fitting, door handle left, 72 mm**

022975 **DLF LEGIC offline fitting, door handle right, 72 mm**

022976 **DLF LEGIC offline fitting, without perforation, door handle left**

022977 **DLF LEGIC offline fitting, without perforation, door handle right**

022978 **DLF mifare offline fitting, door handle left, 72 mm**

022979 **DLF mifare offline fitting, door handle right, 72 mm**

022980 **DLF mifare offline fitting, without perforation, door handle left**

022981 **DLF mifare offline fitting, without perforation, door handle right**

Accessories

022982 **DLF hole gauge**

022983 **DLF battery pack**

Battery package comprising 4 AA batteries, 1,5 V, alkaline.

DLF internal escutcheon



Interior escutcheon with perforated handle section mounted in nylon bush for 8 mm pin. Fits DLF offline fitting.

Technical Data	
Dimensions	50 x 224 x 64 mm

022984 **DLF internal escutcheon, 72 mm**

Technical Data	
Version	Distance 72 mm, similar to stainless steel

022985 **DLF internal escutcheon, without perforation**

Technical Data	
Version	without boring, similar to stainless steel

DLF mounting kit



Mounting kit for DLF inner door fitting, consisting of mounting plate, 8 mm square pin with adapter follower, 8/9 mm square pin sleeve and 5 fixing screws for wooden doors and for screwing down the DLF internal escutcheon with the DLF external fitting, adjusted to the particular door leaf thickness.

022986 **DLF mounting kit, 32 - 45 mm door thickness**

Technical Data	
Dimensions	32 - 45 mm

022987 **DLF mounting kit, 44 - 57 mm door thickness**

Technical Data	
Dimensions	44 - 57 mm

022988 **DLF mounting kit, 56 - 69 mm door thickness**

Technical Data	
Dimensions	56 - 69 mm

022989 **DLF mounting kit, 68 - 81 mm door thickness**

Technical Data	
Dimensions	68 - 81 mm

022990 **DLF mounting kit, 80 - 93 mm door thickness**

Technical Data	
Dimensions	80 - 93 mm

022991 **DLF mounting kit, 92 - 105 mm door thickness**

Technical Data	
Dimensions	92 - 105 mm

Accessories

022993 DLF slot cylinder with key, single-locking



Slot cylinder for DLF inner door fitting.

Locking cylinder and key, single locking.

Technical Data

Version	single shutting

022994 DLF slot cylinder, monokey



Slot cylinder for DLF inner door fitting.

Technical Data

Version	similar shutting

022996 DLF key, monokey

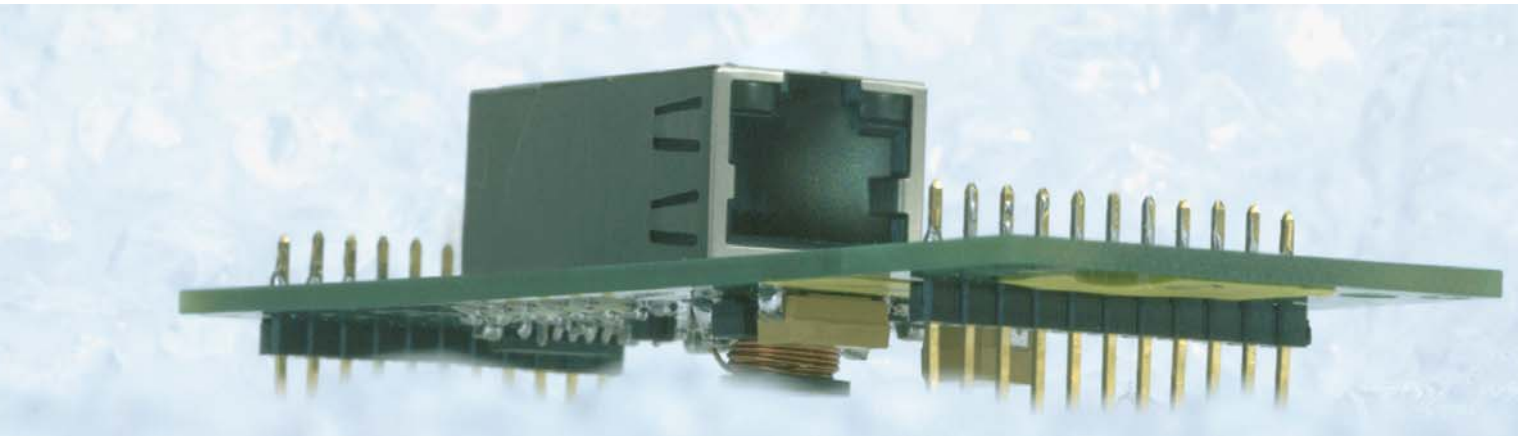


2 keys to fit DLF slot cylinder for DLF inner door fitting.

Technical Data

Version	similar shutting

Notizen



Network components and Maintenance

- Interface converters
- Interfaces

Interface converter

026817.03 Interface converter



This interface converts has an RS-232 interface connection at the input and two RS-485 interface connections connected in parallel at the output, (either 3-wire or 5-wire, as desired).

In addition, this unit has a power supply unit (integrated in the RS-485 plug output) of 12 V / 0.8 A DC.

Without serial connection cable 026809.
9-pole jacks not included.

In connection with NovaTime only 5 wire operation possible.

Accessories - Interface converter

026809 Serial connecting cable



The cable is used to connect a serial COM interface to:

- current intrusion detection control panels HB/MB24, HB/MB48 and MB100
- an interface converter 026817.03
- an ACS-2 or ACS-8 for hardware setup

Technical Data

Connection plug	9-pole/jack - 9-pole/jack
Length	3 m

026109 PC adapter cable RS-232/9-pin Sub-D



Equipped with 3-pin plug connector for connecting a PC and ACT control in case of direct connection.

Technical Data

Connection plug	9-pole/jack - 3-pole/plug connector
Length	approx. 2 m

Modem

058200 High-speed modem V.90 external



External unit with plug-in power supply.

Not for intrusion detection control panel 100-AB8/dialler.
For access control: Connection to ACS-8 directly without interface card. Connection to PC via RS-232. It is strongly recommended using only this mode for connecting remote locations to the access control.

connecting cable RJ11 to TAE N, RS-232 connecting cable 25M to 9/25 F.

Performance Features

- HAYES AT compatible
- Pulse and multi-frequency dialling, full and semi-duplex
- Auto dial, Auto answer, automatic switchover between data and voice transmission
- V.24 bis /MNP5 data compression
- FAX according to V.17, V.33, V.29 and V.27ter
- Compatible with CCITT V.21, V.22, V.22 bis / V.32 / V.32 bis / 34 V, K 56 flex, V.90 (up to 56,000 baud)

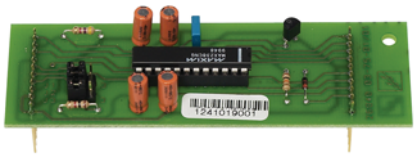
Interface cards

The listed interfaces are designed for in-house operation. The line length of the potentialseparated RS-485 interface is max. 1,200 m. The RS-232 interface supports max. 15 m.

When coupled via the Current Loop interface, the maximum distance is 2,000 m.

For bus systems, one RS-485 interface without potential separation must be used. To ensure safe data exchange, interfaces with potential separation are recommended for the remaining units.

026840.03 Asynchronous RS-232 host interface

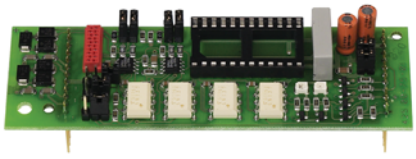


2,400 to 19,200 baud.

Max. cable length 15 m.

For ACS-2 plus, ACS-8, TRS 6 and TRS 8.

026692 RS -485 interface (5-wire and 3-wire)



Without potential separation.

Max. cable length 1,200 m.

For ACS-2 plus, ACS-8, ACT, TRS 6 and TRS 8.

026693 RS -485 interface (5-wire and 3-wire)



Potential separation can be enabled/disabled via jumper.

Max. cable length 1,200 m.

For ACS-2 plus, ACS-8, ACT, TRS 6 and TRS 8.

026840.16 Current loop current interface



Max. cable length 2.000 m.

For ACS-2 plus, ACS-8, ACT and TRS 8.

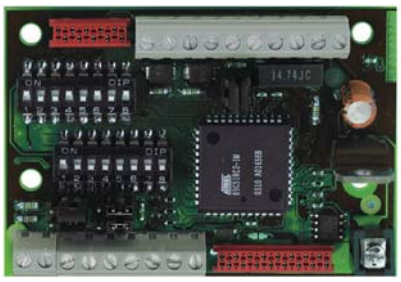
026840.29 Ethernet interface 10/100 Mbits/s



Switches automatically for 10 / 100 Mbits/s.

For ACT, ACS-2 plus, ACS-8, TRS 6 and TRS 8.

027901 Reader converter board



This converter board makes it possible to operate readers and biometric systems from other manufacturers and older Esser and effeff readers at the access control panels ACT, ACS-2 plus and ACS-8 and at the TRS T&A terminals. As-delivered, the board is built into a housing, to allow it to be installed independent of the constructional situation. However, it is also possible to integrate it in the ACS-8.

Input of readers of other brands:

- Clock/Data
- Wiegand

Interface to access control panel/host:

- RS-232 (same as reader 026380.00)
- RS -485
- Clock/data (only with certain readers)

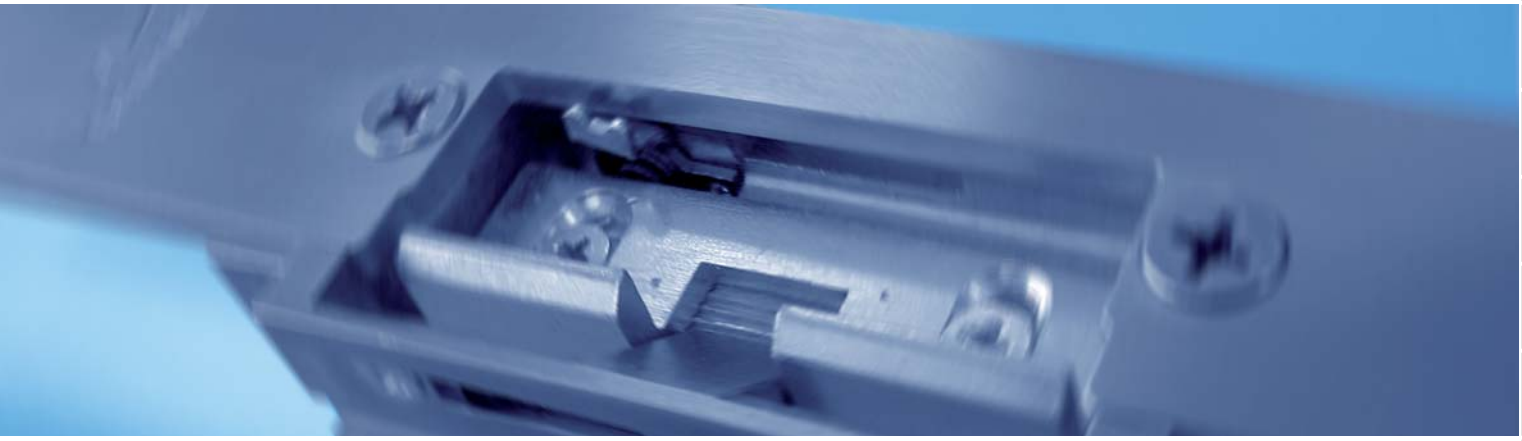
Many reader models from the following manufacturers are supported:

Deister, HID, Simons & Voss, Westinghouse, different biometrics systems as well as the connection of the UBOX9000 for integration of SALTO Virtual Network (SVN).

The exact types as well as other types are available on request.

Technical Data

Rated operating voltage	12 V DC
Operating voltage range	9 V DC to 15 V DC
Current consumption	25 mA + reader current
Type of protection	IP 30
Operating temperature range	-10 °C to +55 °C
Environmental class as per VdS	II
Colour of housing	greywhite
Dimensions PCB (W x H x D)	72 x 50 x 23 mm
Dimensions PCB in housing (W x H x D)	109 x 85 x 30 mm



Electrical locking elements (ASSA ABLOY)

- Door strikes
- Motorized security locks
- Electrical security locks

019090 **Electric door strike 118RR**

NEW



Model with recovery diode for access control systems.

Monitoring contact as potential-free changeover contact.

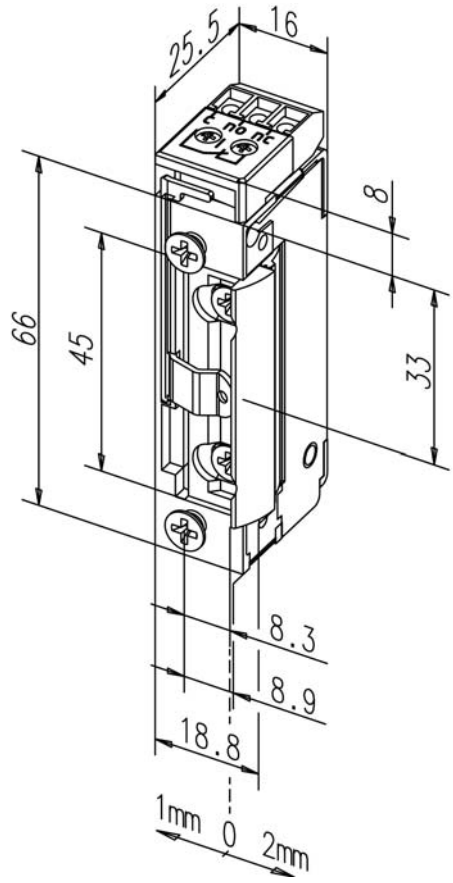
This will be actuated by the latch.

Performance Features

- Radius keeper, FaFix 3 mm adjustable
- Universal voltage
- Pluggable connecting cable available
- Compatible with all current mortise locks
- Compatible with all commercially available striking plates
- Symmetrical design. DIN left/right as well as horizontal applicable

Technical Data

Voltage	10-24 V AC/DC
Permanent voltage proof	11-13 V DC
Adjustable keeper (FF, FaFix®)	Yes
Monitoring contact (RR)	Yes
Bipolar protection diode	Yes
Load current	Yes
Resistance to intrusion	3750 N
Dimensions (H x W x D)	74 x 16 x 25,5 mm
FaFix® adjusting hinge	3 mm
Latch bolt engaging depth	5,5 mm
Operating temperature range	-15 °C to +40 °C
Installation position	vertical and horizontal
Internal works continuous function load cycles	250000
Fix adjustment	optional
Ppre-load release with AC operation	200 N
Switching capacity monitoring contact	24 V / 1 A
Fire protection	No
Rated resistance	43 Ohm
Rated current consumption 12 V DC	280 mA
Rated current consumption 24 V DC	560 mA
Rated current consumption 12 V AC	250 mA
Rated current consumption 24 V AC	500 mA
Max. latch preload AC	200 N
Max. keeper pre-load DC (stabilised)	50 N



Dimensions in mm

019091 **Electric door strike 118FRR for fire doors**

NEW



Model with monitoring contact as potential-free changeover contact.

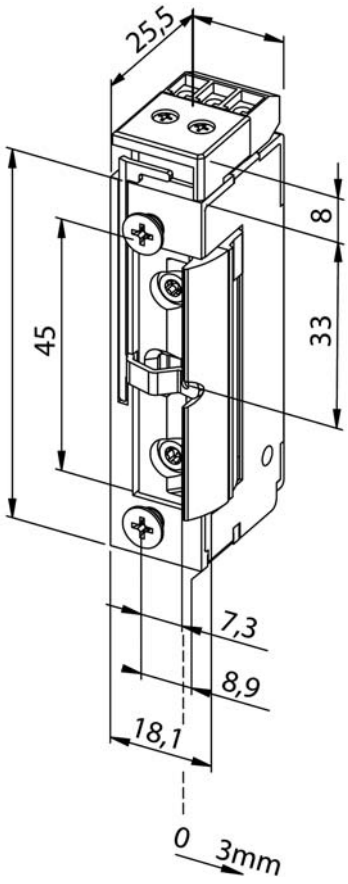
This will be actuated by the latch. Also to be used as fail locked door strike.

Performance Features

- Adjustable latch (FF, FaFix®)
- Adjustable door strike (F, Fix)
- Monitoring contact (RR)
- Bi-directional diode
- Fail-locked

Technical Data

Voltage	10-24 V AC/DC
Permanent voltage proof	11-13 V DC
Adjustable keeper (FF, FaFix®)	Yes
Monitoring contact (RR)	Yes
Bipolar protection diode	Yes
Load current	Yes
Resistance to intrusion	9000 N
Dimensions (H x W x D)	74 x 16 x 25,5 mm
FaFix® adjusting hinge	3 mm
Latch bolt engaging depth	6 mm
Operating temperature range	-15 °C to +40 °C
Installation position	vertical and horizontal
Internal works continuous function load cycles	250000
Switching capacity monitoring contact	24 V / 1 A
Fire protection	Yes
Test certificate number	P-120003624
Rated resistance	43 Ohm
AC-connector adapter	250 mA (12V); 500 mA (24V)
DC-current consumption (stabilzed)	280 mA (12V); 560 mA (24V)
Max. preload AC	200 N (12V) >350 N (24V)
Max. keeper pre-load DC (stabilised)	50 N (12V) 200 N (24V)



Dimensions in mm

019092 Flat striking plate

NEW



Standard flat striking plate with latch bolt aperture and dead bolt cutout.

The various flat striking plates cover almost the complete range of metal and profile frames. Some time ago striking plates with shifted holes (vaiable “O”) have also been used for wooden frames. However, we recommend the use of the nicer looking solution including angeled striking plates or striking plates with latch guideway.

Technical Data

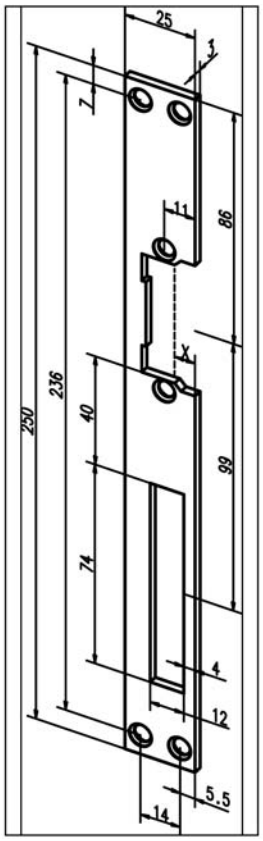
Dimensions (L x W)	250 x 25 mm
Thickness	3 mm
Dead bolt cutout	Yes
Latch bolt guide	Nein

1 x flat striking plate

Performance Features

- Use for DIN left and DIN right

Dimensions in mm



019095 Pre-load electronic assembly 760-12, 12 V DC / 24 V DC

NEW



Improves pre-load capability to at least 300N for DC operation. A short buzzing sound is audible in the electric strike for about 0.5 seconds. Continuous current-resistant, holding current is reduced. Compatible with standard effeff electric strikes.

Technical Data

Connection lead	2-wire
Connection terminal	2-pole

Angled striking plates

Standard angled striking plate with latch bolt aperture and dead bolt cutout.

Angled striking plates are designed primarily for wooden constructions, but can also be used for other applications. If electric strikes are retrofitted in angled striking plates, prior to mounting the lateral cover at the strike must be removed. For wooden doors, we recommend using strikes with adjustable keep (FaFix), as the special properties of wood can necessitate adjustment of the keep.

019093 Angled striking plate DIN left

NEW



Technical Data

DIN direction	Left
Dimensions (L x W x D)	250 x 25 x 32 mm
Thickness	2 mm
Dead bolt cutout	Yes
Latch bolt guide	No

019094 Angled striking plate DIN right

NEW



Technical Data

DIN direction	Right
Dimensions (L x W x D)	250 x 25 x 32 mm
Thickness	2 mm
Dead bolt cutout	Yes
Latch bolt guide	No

MEDIATOR

NEW



VdS **Approval** **G109032 (EMT), class C**
M109314 (EMT), class A
Z109001 (ZK), class C

MEDIATOR is the perfect combination of a self-locking escape door lock with an electric door strike. All electric cable feeds are not connected to the lock but to the door strike. By means of this cabling work with high effort are no longer necessary at the door.

MEDIATOR

- provides a high protection against burglary as the door is permanently locked. Approval as mechanic blocking element according to VdS class A. If required, the door can be held open via a key switch.
- provides a safe escame route. Despite being permanently locked, the building can always be exited through the entrance door
- provides great convenience. Locked building entrance doors can be easily opened from inside apartments. When the door closes, it is automatically locked. The door can also be permanently unlocked.
- Permanent release possible (e. g. clock controlled).
- suitable for both tubular-frame and full-leaf doors.

Performance Features

- Self-locking: Dead bolt and latch are blocked; Advantage: higher security
- Mechanical process control between cross and control latch
- Integrated panic function on the inside handle
- Changeover function for unlocking with a key from the outside
- Low rear backset for tubular frame design: 15 mm

Mounting

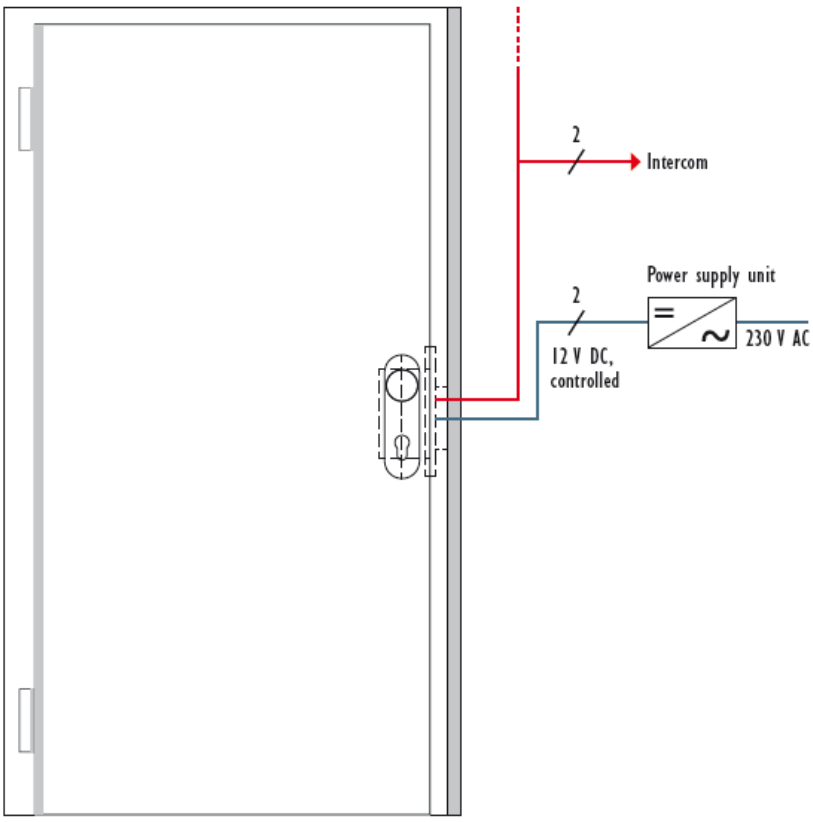
Power source

Four wires are provided: two for power supply and two for electrical actuation.

Warning: If a power supply unit from a different manufacturer is used, ensure it is a model 12 V controlled D.C. voltage and a current output of at least 1 A.

Technical Data

Actuation voltage (release)	5 - 48 V AC oder DC. With reconfiguration the existeng door strike cable can be used.
Rated operating voltage	12 V DC controlled



Dimensions in mm

Approvals

Approval for fire and smoke doors

The basic precondition for the use with fire or smoke doors iis a common test certificate of a construction supervision authority. The test certificate for the Mediator has the number 120003555.

The door manufacturer needs this common test certificate to test the door system. Only in combination with this the door manufacturer is able to test (door system test) and produce a fire or smoke door.

Please observe also country specific regulations outside of Germany (if existing).

For use with fire and smoke doors please note:

- The Mediator solution is only allowed to be built in by the door manufacturer during the production in combination with a corresponding door system inspection. A subsequent assembly at an existing fire or smoke door is not, or only with agreement of the door manufacturer, permitted. The Mediator doorstrike must have the "Ü"-identification mark (models as of production date 09.2008) and the fire protection module 519ZBFS (item no. 022711) must be used in addition. For a fire or smoke recognition an on-site fire detetion sytem or a smoke detector with a relay output is to be used (see connection diagram of item no. 022711).
- For this application a permanent release of the Mediator system is not permitted.

Mediator has three different VdS approvals:

- Approval as locking monitoring device (bolt switching contact) VdS class C, G 109 032
- Approval as mechanic locking device VdS class A, M 109 314
- Approval as elektro mechanic actuating element for access control systems VdS class C, Z 109 001

Approval according to DIN EN 179 and DIN EN 1125

For escape door planning it is effective:

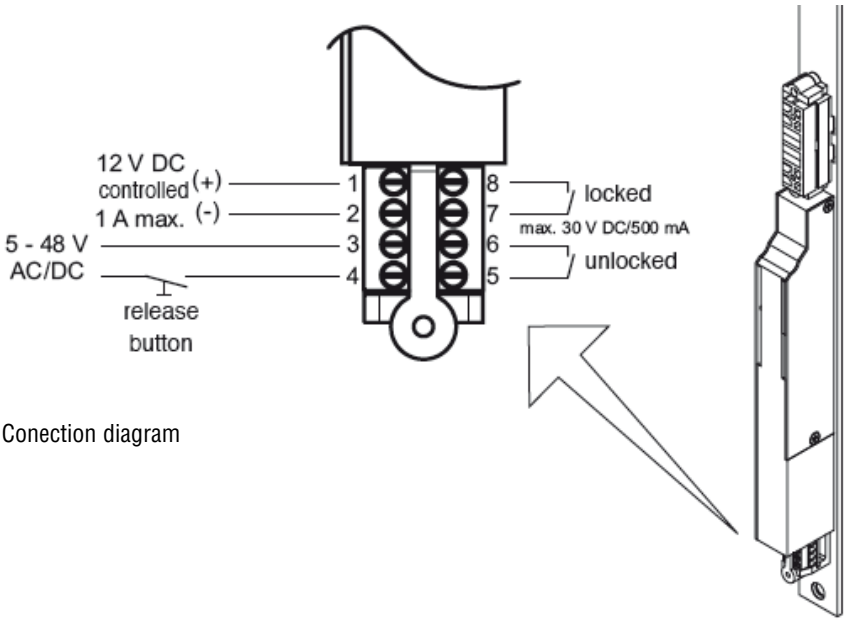
Before tender procedure there must be the decision if the door is planned to be an ecsape route or a panic door. The legal basis therfor is the valid building law with its corresponding special building regulations (valid in Germany, please observe local country specific regulations, if existing).

The decision for emergency or panic doors must be based upon the EN-norms 179 and 1125 with common validity within Europe.

The two norms distinguish between emergency exit (DIN EN 179) and panic exit (DIN EN 1125) and thus regulate the appropriate equipment of the door.

DIN EN 179 (emergency exit locking device) Certificate of EC Conformity CPD-001.

DIN EN 1125 (panic locking device) Certificate of EC Conformity CPD-017.



Conection diagram

022700 MEDIATOR Lock, Tubular Frame Version

NEW

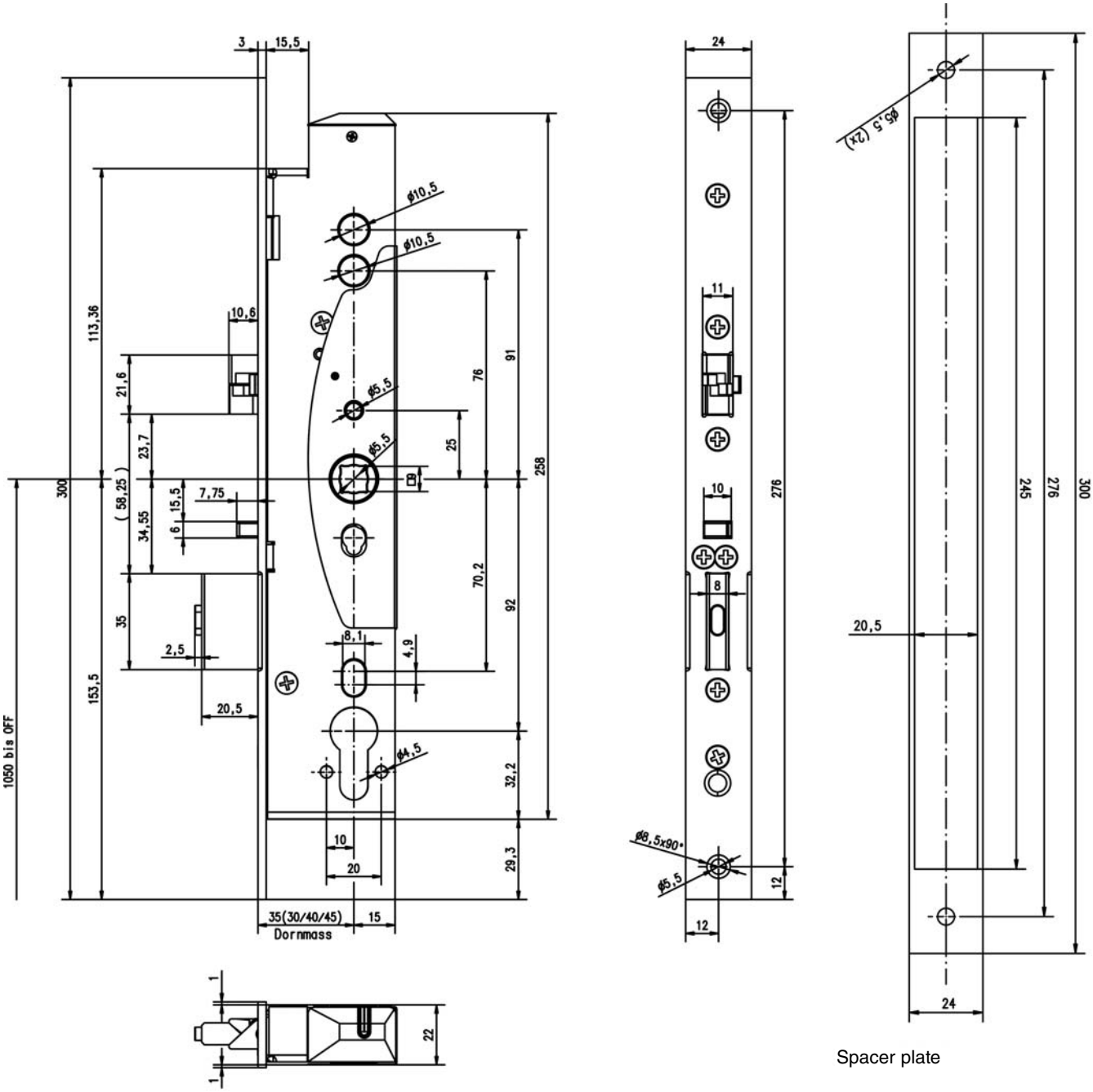


MEDIATOR lock, tubular frame version, 35 mm backset.

Technical Data	
Backset	35 mm
Distance	92 mm
Type of cylinder	Europrofile cylinder
Dead bolt throw	20 mm
Follower	9 mm with Compensation on 8 mm
Face plate width	24 mm, squared

1 x lock
1 x compensation

Dimensions drawing MEDIATOR tubular frame lock



Spacer plate

Accessory

022706 **Sliding piece for MEDIATOR**

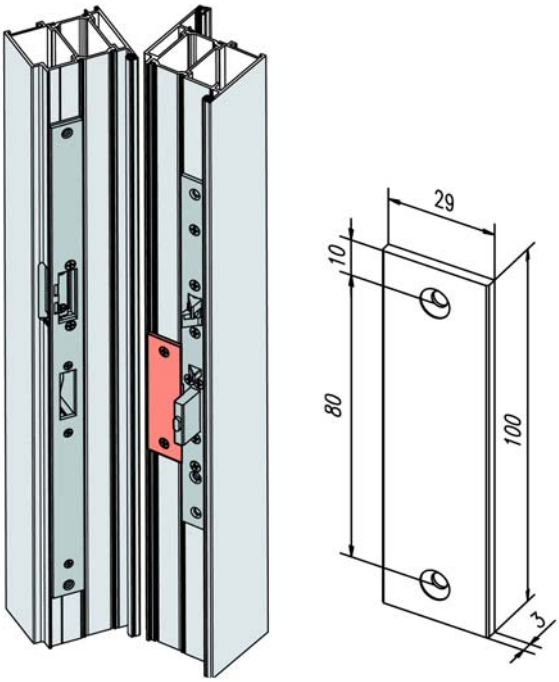
NEW



To adjust profile contours (slugs, slots, etc) insert the plastic sliding piece to guide the primary slider.

Technical Data

Dimensions (L x W x H)	100 x 24 x 3 mm



Application example / dimensions drawing

Spacer plates

MEDIATOR requires a gap of 2 to 5.5 mm between the striking plate and face plate for secure functioning. A larger gap can be reduced by using spacer plates on both the strike side (striking plate) and the lock side (face plate).

022707 **Spacer plate for tubular frame lock**

NEW



Technical Data

Dimensions (H x B)	300 x 24 mm
Thickness	3 mm

022708 **Spacer plate for tubular frame lock**

NEW



Technical Data

Dimensions (H x B)	300 x 24 mm
Thickness	5 mm

022701 MEDIATOR lock for wooden and steel doors, lock facing 20 mm

NEW



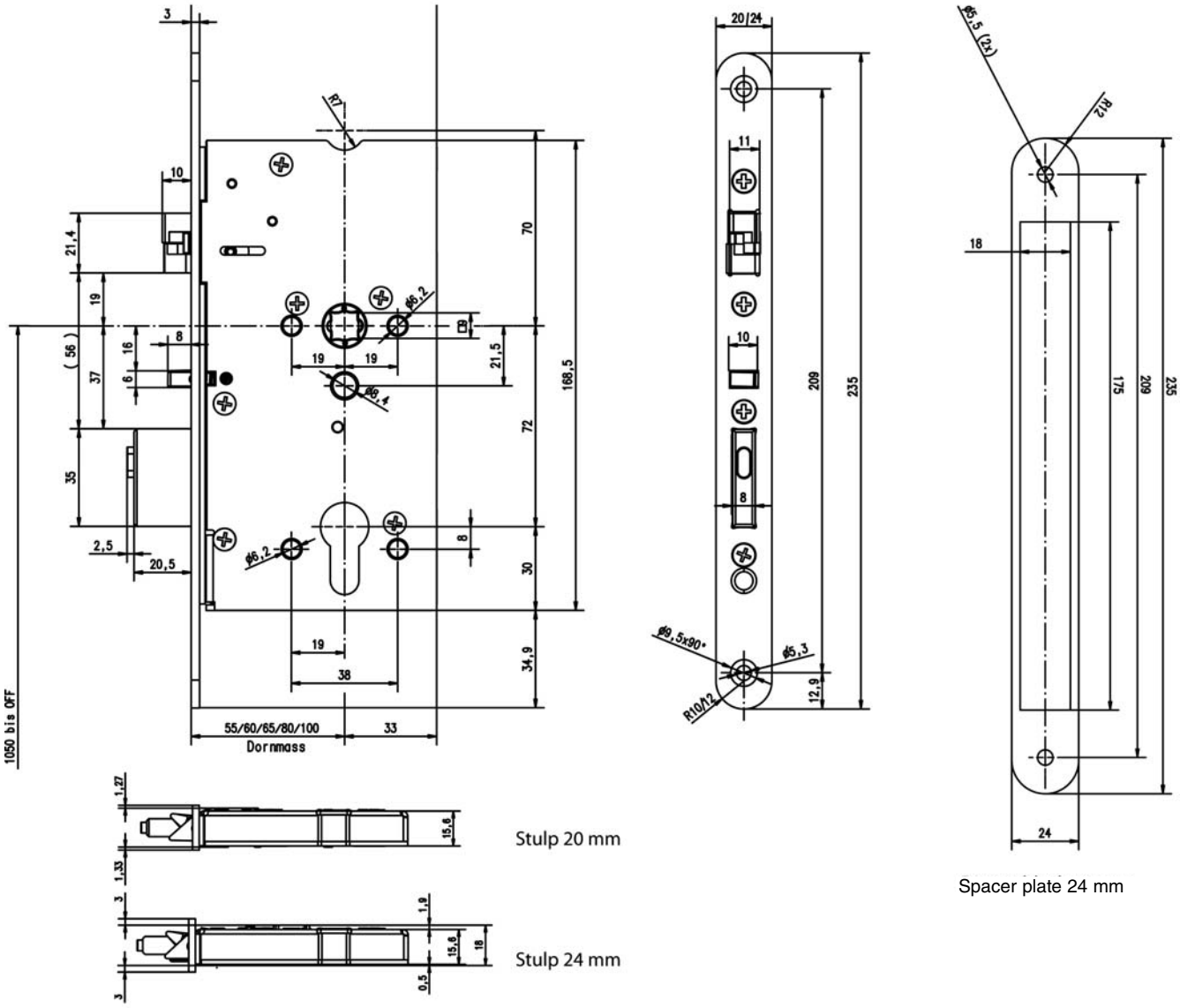
MEDIATOR lock for wooden and steel doors, backset 65 mm, lock facing 20 mm.

Technical Data	
Backset	65 mm
Distance	72 mm
Type of cylinder	Europrofile cylinder
Dead bolt throw	20 mm
Follower	9 mm with Compensation on 8 mm
Face plate width	20 mm, round

Accessories:

022706 Sliding piece

Maßzeichnung MEDIATOR Schloss Vollblatt, Stulp 20 mm



022702 MEDIATOR lock, wooden and steel doors, lock facing 24 mm

NEW



MEDIATOR lock for wooden and steel doors, backset 65 mm, lock facing 24 mm.

Technical Data

Backset	65 mm
Distance	72 mm
Dead bolt throw	20 mm
Follower	9 mm with Compensation on 8 mm
Type of cylinder	Europrofile cylinder
Face plate width	24 mm

1 x lock
1 x compensation

Accessories:

022709	Spacer plate
022706	Sliding piece

Accessory

022709 Spacer plate for wooden and steel doors

NEW



MEDIATOR requires a gap of 2 to 5.5 mm between the striking plate and face plate for secure functioning. A larger gap can be reduced by using spacer plates on both the strike side (striking plate) and the lock side (face plate).

Technical Data

Dimensions (H x B)	235 x 24 mm

022706 Sliding piece for MEDIATOR

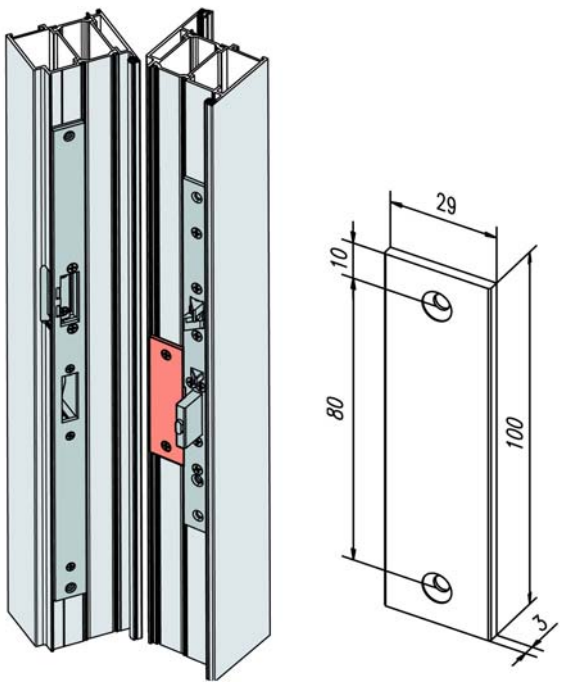
NEW



To adjust profile contours (slugs, slots, etc) insert the plastic sliding piece to guide the primary slider.

Technical Data

Dimensions (L x W x H)	100 x 24 x 3 mm



Application example / dimensions drawing

022711 **Fire protection module**

NEW



When MEDIATOR locks are used on fire doors, the fire protection module 519ZBFS (item no. 022711) is required.

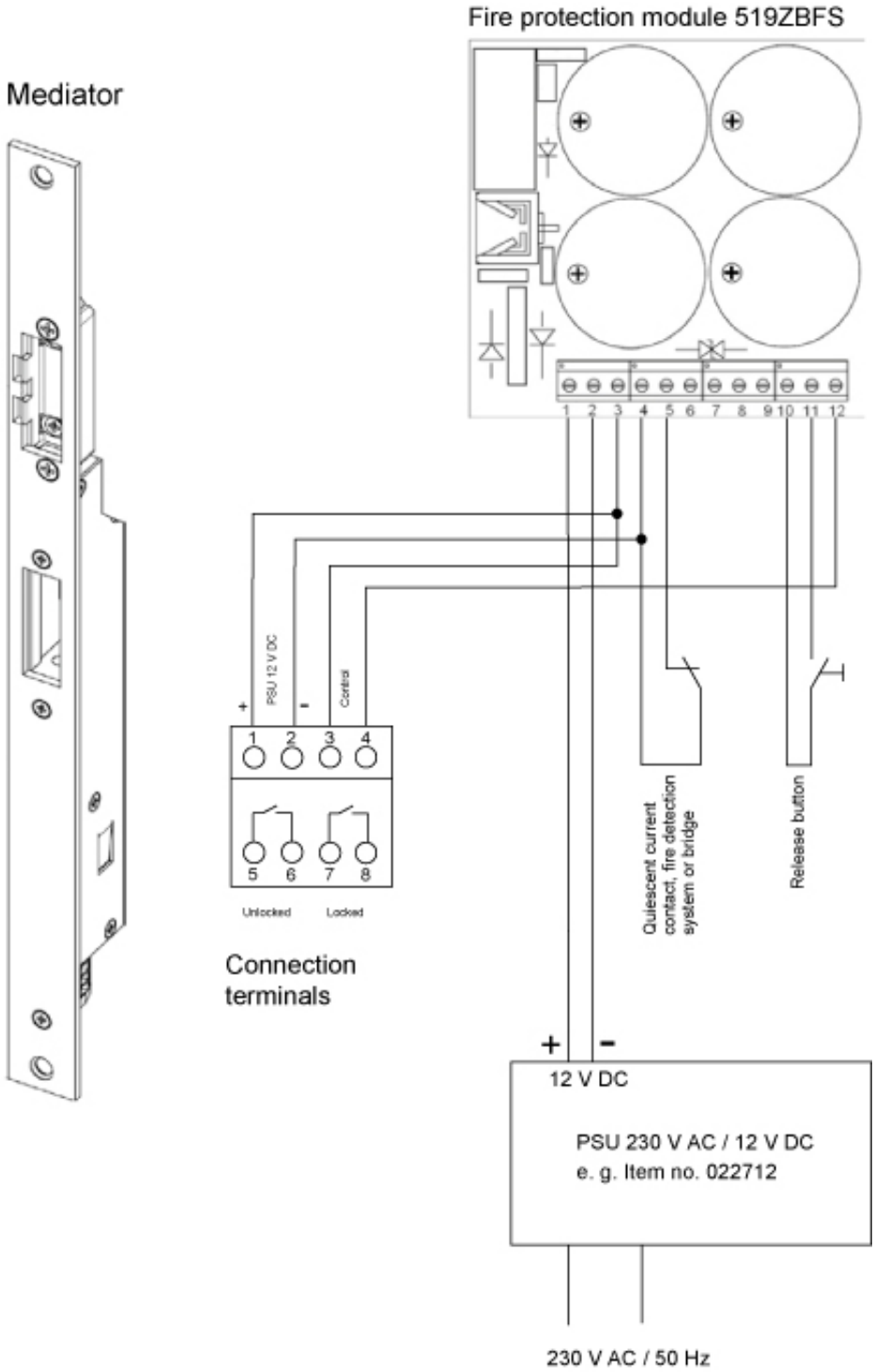
In the event of a fire or power failure, the module ensures that the status of the motorised lock changes to locked from whatever status it was in and that the door can fulfil its fire safety function. It goes without saying that the panic function via the door handle or push bar will remain functional.

For smoke recognition a smoke alarm system or a smoke detector with a relay output must be connected.

Technical Data

Dimensions (L x W x D)	98 x 88 x 43 (49) mm

Anschlussplan Feuerschutz-Modul



022712 Power supply unit 1003-UP, f. m.

NEW



These stabilised power supply units are used for access control, escape route systems and electric strike systems where a low-noise locking component is required.

Technical Data

Type of installation	Flush mounted installation box
Dimensions (H x W x L)	50,8 x 32 x 54,5 mm
Overload protection	electronic
Operating temperature range	-20 °C to +40 °C
Type of protection	IP 20
Class of protection	II/protective insultated
Housing	Plastic
Housing colour	black
Rated operating voltage	230 V AC +/- 15%
Rated power	12 W
Rated voltage	12 V DC (regulated)
Rated current	max. 1 A

Doorstrikes for MEDIATOR

Performance Features

- The door is always locked – day and night.
- Despite being permanently locked, the building can always be exited through the entrance door
- If visitors come late in the evening or early in the morning, the locked main door can be opened comfortably from the apartment. It locks automatically if it closes again.

MEDIATOR linear electric door strike

The MEDIATOR linear electric door strike has been especially developed for this lock solution with fix adustment and various striking plates. Various spacer plates suitable for the used striking plates are available for adjustment of the rebate space. An available counterpat fixes unevennesses of the profile.

The MEDIATOR linear electric strike is motor-driven and fulfils all requirements for use in busy apartment buildings.

022703 **MEDIATOR electric strike with flat strike plate**

NEW

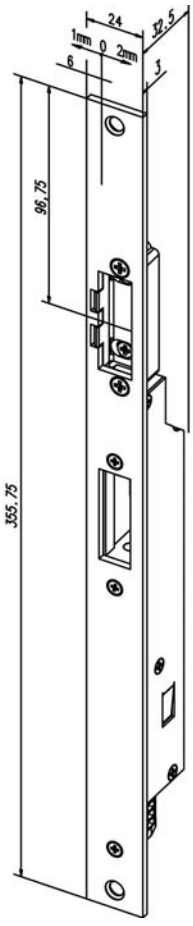


MEDIATOR electric strike with strike plate.

Can be used for DIN left and DIN right.

Technical Data

Voltage	12 V DC
Dimensions (H x B)	356 x 24 mm
Thickness strike plate	3 mm
Dead bolt throw	20 mm
Unlocking time	3 sec
Resistance to intrusion	6000 N
Operating temperature range	-20 °C to +60 °C
Gap – face plate-strike plate	Min. 2 mm to max.4 mm
Fix adjustment	Yes
Fix adjustment range	3 mm
Max. latch preload AC	80 N
Permanent unlocking	Yes
Rated operating voltage	12 V DC (regulated d.c. voltage)
Actuation voltage (release)	5 V to 48 V AC/DC
Rated current consumption	500 mA
Monitoring contact door locked	Max. 30 V DC, 500 mA
Monitoring contact door unlocked	Max. 30 V DC, 500 mA



Dimensions in mm

022710 MEDIATOR Spacer plate

NEW



Stainless steel spacer plate suitable for MEDIATOR doorstrike (Item no. 022703) for adjusting the rebate clearance.

Technical Data

Dimensions (H x B)	356 x 24 mm
Thickness	3 mm

022704 MEDIATOR electric strike with angled strike plate DIN left

NEW



MEDIATOR electric strike with angled strike plate DIN left for single locking.

Technical Data

Voltage	12 V DC
DIN direction	left
Dimensions (H x W x D)	355,75 x 30 x 12 mm
Thickness strike plate	3 mm
Dead bolt throw	20 mm
Unlocking time	3 sec
Resistance to intrusion	6000 N
Operating temperature range	-20 °C to +60 °C
Gap – face plate-strike plate	Min. 2 mm to max. 5,5 mm
Fix adjustment	Yes
Fix adjustment range	3 mm
Max. latch preload AC	80 N
Permanent unlocking	Yes
Rated operating voltage	12 V DC
Actuation current	5 V to 48 V AC/DC
Rated current consumption	500 mA
Monitoring contact door locked	Max. 30 V DC, 500 mA
Monitoring contact door unlocked	Max. 30 V DC, 500 mA

022705 MEDIATOR electric strike with angled strike plate DIN right

NEW



MEDIATOR electric strike with angled strike plate DIN right for single locking.

Technical Data

Voltage	12 V DC
DIN direction	right
Dimensions (H x W x D)	355,75 x 30 x 12 mm
Thickness strike plate	3 mm
Dead bolt throw	20 mm
Unlocking time	3 sec
Resistance to intrusion	6000 N
Operating temperature range	-20 °C to +60 °C
Gap – face plate-strike plate	Min. 2 mm to max. 5,5 mm
Fix adjustment	Yes
Fix adjustment range	3 mm
Max. latch preload AC	80 N
Permanent unlocking	Yes
Rated operating voltage	12 V DC
Actuation voltage (release)	12 V DC (regulated d.c. voltage)
Rated current consumption	500 mA
Monitoring contact door locked	Max. 30 V DC, 500 mA
Monitoring contact door unlocked	Max. 30 V DC, 500 mA

Fittings for MEDIATOR

022713 Mediator door fittings for full leaf version

NEW



Solid steel protection door fitting for MEDIATOR is suitable for the 55 to 100 mm full leaf version and is equipped with cylinder protection.

Suitable for item no. 022701 and item no. 022702.

Applicable for DIN left and DIN right.

Technical Data

Version	DO 20.3.01 for DIN EN 179
Backset	55-100 mm
Material	Stainless steel
Distance	72 mm
Type of cylinder	Europrofile cylinder
Cylinder protection	Yes

Accessories:

Half spindles with screw roller and screws.

022714 Mediator door fittings for tubular frame version

NEW



Solid steel protection door fitting for MEDIATOR is suitable for the 30 to 45 mm for tubular frame version and is equipped with cylinder protection.

Suitable for item no. 022700.

Applicable for DIN left and DIN right.

Technical Data

Version	DO 20.3.02 for DIN EN 179
Backset	30-45 mm
Material	Stainless steel
Distance	92 mm
Type of cylinder	Europrofile cylinder
Cylinder protection	Yes

Accessories:

Half spindles with screw roller and screws.

Accessory

022715 Half spindles with screw roller

NEW



Applicable for item no. 022714.

Technical Data

Pin length	95 mm
Door leaf thickness	Tubular frame 022714: 43-53 mm

022716 Half spindles with screw roller

NEW



Applicable for item no. 022713 and item no. 022714.

Technical Data

Pin length	100 mm
Door leaf thickness	Tubular frame 022714: 48-58 mm; massive leaf 022713: 38-48 mm

022717 Half spindles with screw roller

NEW



Applicable for item no. 022713 and item no. 022714.

Technical Data

Pin length	110 mm
Door leaf thickness	Tubular frame 022714: 58-68 mm; massive leaf 022713: 48-58 mm

022718 Half spindles with screw roller

NEW



Applicable for item no. 022713 and item no. 022714.

Technical Data

Pin length	120 mm
Door leaf thickness	Tubular frame 022714: 68-78 mm; massive leaf 022713: 58-68 mm

022719 Half spindles with screw roller

NEW



Applicable for item no. 022713.

Technical Data

Pin length	130 mm
Door leaf thickness	Massive leaf 022713: 68-78 mm

Screws for MEDIATOR fittings



Screw sets for fittings

		applicable for fitting				
Item no.	Screw lenght in mm	tubular frame version Item no. 022714	door thickness in mm	massive leaf version Item no. 022713	door thickness in mm	Price €
019201	45		35-40	X	35-40	
019202	50		40-45	X	40-45	
019203	55		45-50	X	45-50	
019204	60	X	50-55	X	50-55	
019205	65	X	55-60	X	55-60	
019206	70		60-65	X	60-65	
019207	75	X	65-70	X	65-70	
019208	80		70-75	X	70-75	
019209	85	X	75-80	X	75-80	

3 x M6 / 2 x M8 screws each, corresponding allen wrenches

Checklist for MEDIATOR

NEU

Necessary information for reworking.

MEDIATOR is ingenious and therefore also very straightforward. Easy to use on a daily basis and just as easy to install. In order for the lock solution to work perfectly, a few things must be taken into consideration before ordering. This includes: the existing entrance door and its lock and strike, and thus also selection of the required MEDIATOR components. The following checklist for door features ensures security for your door.

1 DIN direction
☐ DIN left ☐ DIN right

2 Backset
Tubular frame model: ☐ 30 mm ☐ 35 mm ☐ 40 mm ☐ 45 mm
Full leaf model: ☐ 55 mm ☐ 60 mm ☐ 65 mm ☐ _____ mm

3 Face plate
Width _____ mm
Thickness _____ mm
Changing of the lock position box possible ☐ Yes ☐ No

4 Rebate clearance
Gap door frame/door leaf _____ mm
Please also turn to p. 14

5 Face plate to strike plate
Gap between face plate & strike plate _____ mm

6 Distance
Euro-profile cylinder
Tubular frame model ☐ 92 mm
wooden/steel model ☐ 72 mm

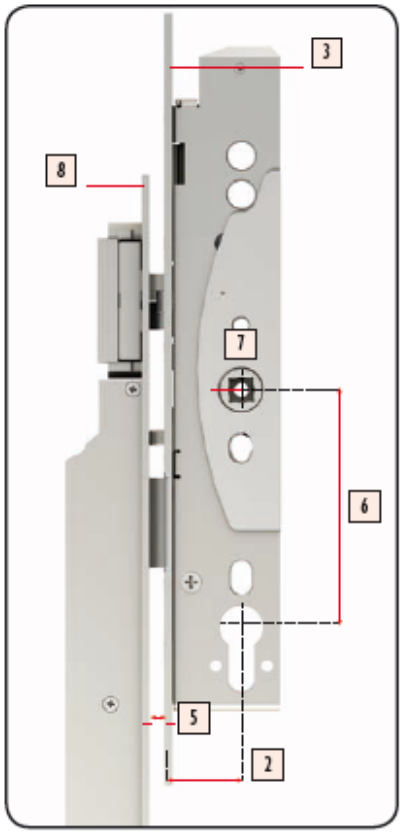
7 Follower
☐ 8 mm ☐ 9 mm ☐ 10 mm

8 Striking plate
Width _____ mm
Thickness _____ mm
Finishing work required ☐ Yes ☐ No

9 Angled striking plate
☐ Yes ☐ No

10 Fitting
Compatible with lock type series 609 ☐ Yes ☐ No

11 Electric door strike
Existing ☐ Yes ☐ No
Model _____
Min. four connecting wires ☐ Yes ☐ No
Installation of additional cables possible ☐ Yes ☐ No
Wiring to sub-distribution ☐ Yes ☐ No
Wiring to junction box ☐ Yes ☐ No
Space for power supply unit in junction box ☐ Yes ☐ No
Other power supply unit fitting possible ☐ Yes ☐ No



Please note:
- For different backset/distance, additional work must be made to the door leaf for finishing.
- A power supply must be planned.
- Four connection wires are required:
  – Two wires to power supply
  – Two wires to electrical actuation
- Space must be provided in the door frame for the motor unit.
- Possibility to align FaFix striking plate/latch bolt.
- Required gap between face plate & striking plate after fitting: 2–5.5 mm

Motor safety lock type 509

The motor safety locks **automatically lock** the door after closing. Door locking cannot be forgotten, which provides the highest level of intrusion protection.

Motorised operation of latch and bolt, enabling the motor lock to be used in connection with motor-operated doors.

The **emergency egress function** guarantees a safe chance for escape, since the door can be opened from the inside at any time.

The control unit allows convenient remote controlling. The motor lock can easily be combined with access control systems and other door systems.

All motor safety locks are tested by the material testing institute (MPA) in Dortmund and approved for use in escape routes, fire doors and intrusion-resistant doors.

Available bolt lengths: 35 mm and 65 mm

022085.10 Motor lock DIN right-/left-hand bolt length 35 mm, type 509X



Motor lock for doors with bolt length 35 mm.

Approval:

EC Certificate of conformity 0432-CPD-0001 of the harmonised standard EN 179.
Classification: 376B1352AB/D.

EC Certificate of conformity 0432-CPD-0017 of the harmonised standard EN 1125.
Classification: 376B132 1/2 AB and 37601322BB.

Technical Data

Setting of locking	max. 45°
Settings possibillities	Panic side, DIN heading
Dimensions (W x H x D)	254 x 50 x 20.5 mm
Face plate (W x H x D)	300 x 24 x 3 mm
Dead bolt throw	20 mm
Follower	9 mm
Backset	35 mm
Distance	92 mm (Euro cylinder)

Performance Features

- Self-locking with cross latch bolt and lock
- Integrated anti-panic function via the internal strike
- Unlock of latch bolt and lock by electric motor
- Electric control via external motor lock control item no. 022080.10
- Alternating function for unlocking from outside via key
- Automatic relocking
- For universal use

022087.10 Motor lock DIN right-/left-hand bolt length 65 mm, type 509X



Motor lock for doors with bolt length 65 mm.

Approval:

EC Certificate of conformity 0432-CPD-0001 of the harmonised standard EN 179.
Classification: 376B1352AB/D.

EC Certificate of conformity 0432-CPD-0017 of the harmonised standard EN 1125.
Classification: 376B132 1/2 AB and 37601322BB.

Technical Data

Setting of locking	max. 45°
Settings possibillities	Panic side, DIN heading
Dimensions (W x H x D)	168.5 x 98 x 16.5 mm
Face plate (W x H x D)	235 x 24 x 3 mm
Dead bolt throw	20 mm
Follower	9 mm
Backset	65 mm
Distance	72 mm (Euro-Zylinder)

Performance Features

- Self-locking with cross latch bolt and lock
- Integrated anti-panic function via the internal strike
- Unlocking of latch bolt and lock by electric motor
- Electric control via external motor lock control item no. 022080.10
- Alternating function for unlocking from outside via key
- Automatic relocking
- For universal use

022080.10 Motor lock control for type 509X



(similar illustration)

Control device for motor lock Item no. 022085.10 or Item no. 022087.10.

Technical Data

Dimensions (W x H x D)	192 x 110 x 45 mm
Type of protection	IP 40
Connection voltage range	12-24V DC (+/-15%)
Connection voltage range	12-18V AC (+15%...-10%)
Current consumption	Idle = 80 mA (12V) / 40 mA (24V)
Current consumption	Normal = 450 mA (12V) / 220 mA (24V)
Current consumption	Start-up = 1300 mA (12V) / 600 mA (24V)
re-locking time	Adjustable 2 - 15 sec.
Temperature range	-20°C to +60°C

Performance Features

- For controlling the motor safety lock of the 509X model series
- In the plastic housing for surface mounting
- Four potential-free contacts 20 V AC/DC 0.8A; ohmic load
- For monitoring:
  - deadbolt unlocked
  - deadbolt locked
  - control latch
  - profile cylinder contact
  - door strike operation
- Temporary and permanent unlocking options
- Automatic locking in case of power failure

For use in fire barriers, a smoke protection switch approved by the building authority is additionally required.

Accessories:

022081.10 Connecting cable 10 m, 16-pin for motor lock 509X

022081.10 Connecting cable 10 m, 16-pin for motor lock 509X



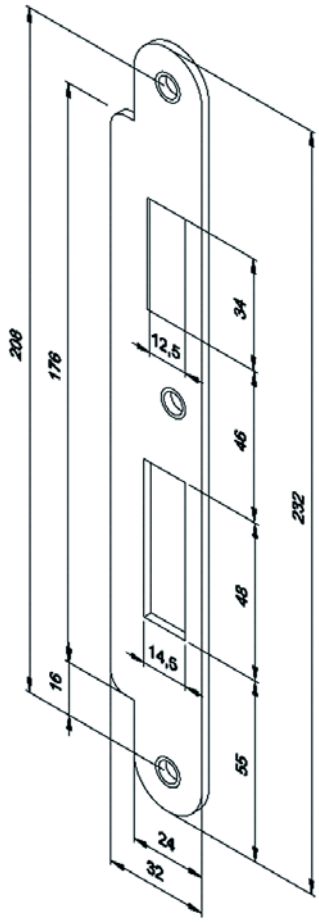
- 16-pin
- for safety lock 509X
- with plug attached on one side
- length 10 m

022082.10 Flanged striking plate for motor lock 509X

Universal DIN left- and right-hand, 12 mm
- for safety locks 509X
- chromium-plated
- for universal use

Technical Data

Dimensions locking plate (W x H x D)	232 x 40 x 3 mm
Face plate flange	176 x 16 mm



Dimensions in mm

Electrical safety locks type 809



Performance Features

- Mechanical self-locking
- Mechanical follow up control between latch and control latch
- Burglary-resistant due to solid bolt with 20 mm throw
- Burglary resistance up to resistance class 2 achievable in suitable door systems
- Auxiliary latch for automatic bolt extension
- Can be opened from the inside of rooms at all times
- Free-wheeling external handle, electrically lockable
- Changeover function for normal key operation
- Monitoring function via four integrated microswitches
- Can be combined with escape door locking system
- Permanent door locking increases intrusion protection level
- Suitable for fire doors
- Approval fot fire doors D 09.11.
- Certificate P120090197
- Panic function:
  - Approvals as per EN 179 (tubular frame and massive leaf version)
  - Approvals as per EN 1125 (tubular frame version model 809E only)

The electric security lock model 809 is a self-locking panic lock with separate follower and controllable external handle. The outside handle does not engage (free-wheeling handle). It can be electrically actuated if required.

The self-locking mechanism is triggered when the door is closed by an additional control latch which when pressed in, automatically pre-locks the lock bolt. The function of the control latch is coupled with the position of the latch bolt. This means that the locking mechanism is only triggered when both latches are activated.

The panic function applies to one given direction of entry. When the respective handle is operated, both the latch and the pre-locked lock bolt are retracted. (Exception: The special version with controllable handle on both sides). The electric security lock 809 is available in all current versions both with control function in fail-locked version (currentless external handle without function) and with control function in fail-unlocked version (currentless, external handle with function).

A wide range of surveillance options is possible in addition to simple lock actuation if the lock is combined with electronic access control systems such as an encoded access system or with central instrumentation and control. Four **potential-free changeover contacts** have been provided for this purpose, and are capable of signalling every action within the lock.

As well as constituting a top quality alternative to conventional locks in residential and commercial buildings, the electrical safty lock type 809 is ideally suited for guarding high security areas.

Monitoring contacts for:

- Bolt contact (is activated with 90% dead bolt throw)
- Internal and external handle
- Profile cylinder contact (for use as key switch function)

Technical Data

Rated operating voltage	12 V DC
Current consumption	220 mA
Class of protection DIN 40050	IP 30 (with built-in cylinder)
Relay contact rating	25 V DC / 1A
Dead bolt throw	20 mm
Follower	9 mm
Requirement on mech. strength acc. to DIN 1825	class 4
Minimum loading of the trap	5 kN
Minimum loading of the sliding bolt	10 kN
Sliding bolt counterforce	4 kN (minimum)
Connecting cable length	6 m
Dimensions	see drawing

The E-safety locks use the operating current priciple and are available with a backset of 35 mm and 65 mm.

Locks with 65 mm bolt length

019050 **Electrical safety lock 809, version E, 65 mm bolt length**



Version E, right, inward opening.

Connection cable

019051 **Electrical safety lock 809, version F, 65 mm bolt length**

Version F, right, outward opening.

Conection calbe

019052 **Electrical safety lock 809, version C, 65 mm bolt length**

Version C, left, inward opening.

Connaction cable

019053 **Electrical safety lock 809, version D, 65 mm bolt length**

Version D, left, outward opening.

Connection cable

Locks with 35 mm bolt length

019054 **Electrical safety lock 809, version E, 35 mm bolt length**



Version E, right, inward opening.

Connection cable

019055 **Electrical safety lock 809, version F, 35 mm bolt length**

Version F, right, outward opening.

Connection cable

019056 **Electrical safety lock 809, version C, 35 mm bolt length**

Version C, left, inward opening.

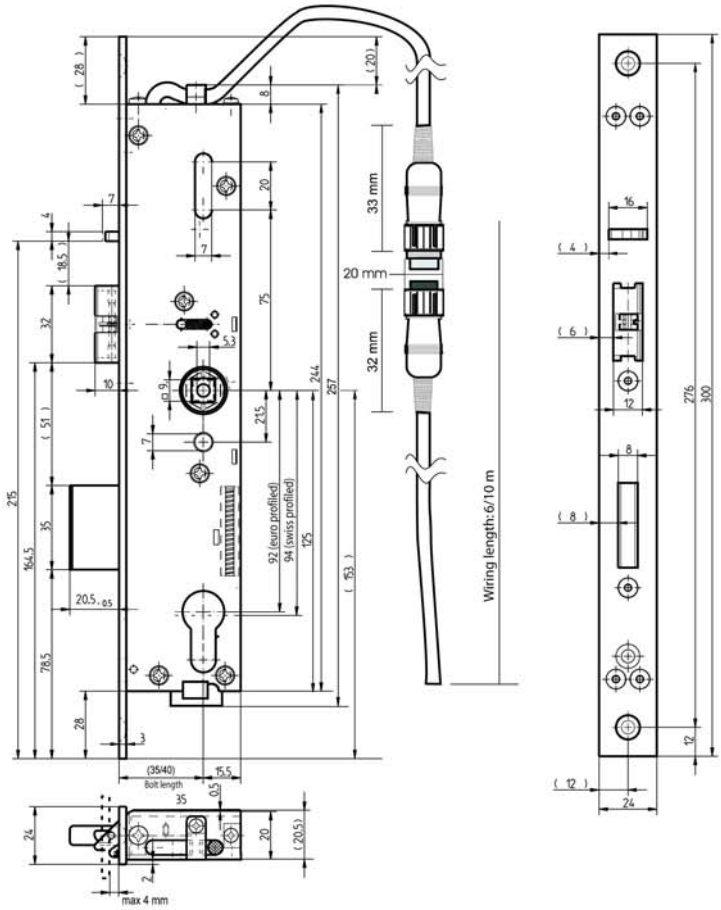
Connection cable

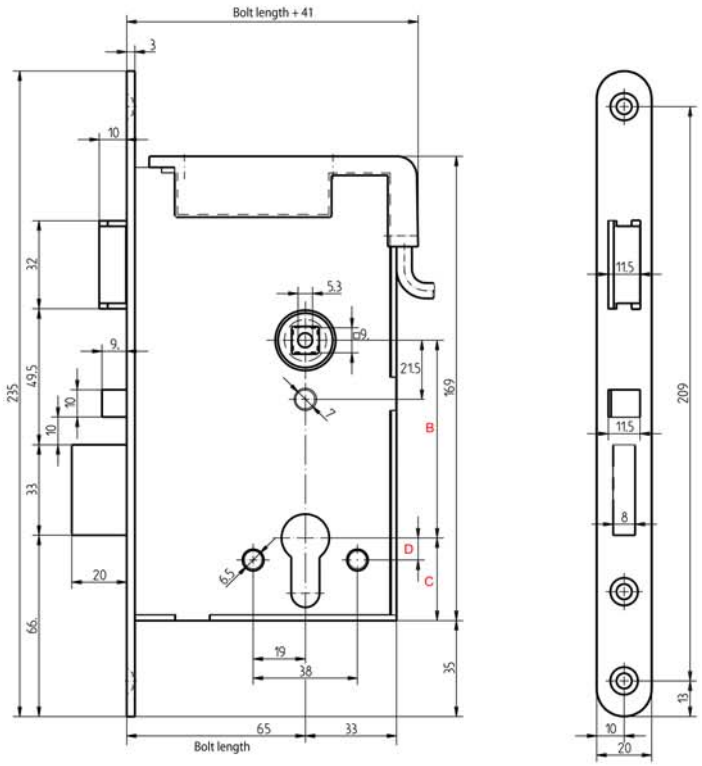
019057 **Electrical safety lock 809, version D, 35 mm bolt length**

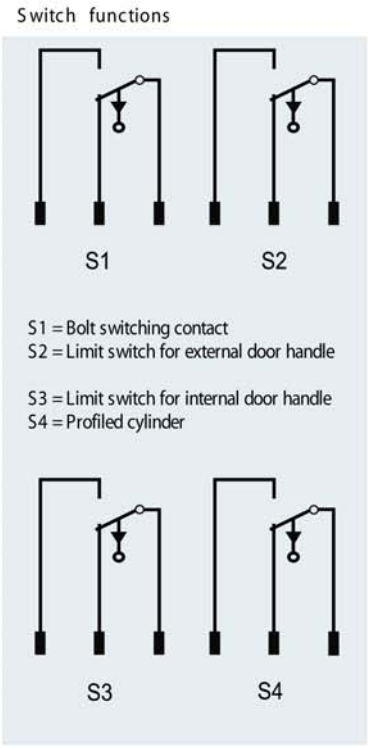
Version D, left, outward opening.

Connection cable

Dimensioned drawings

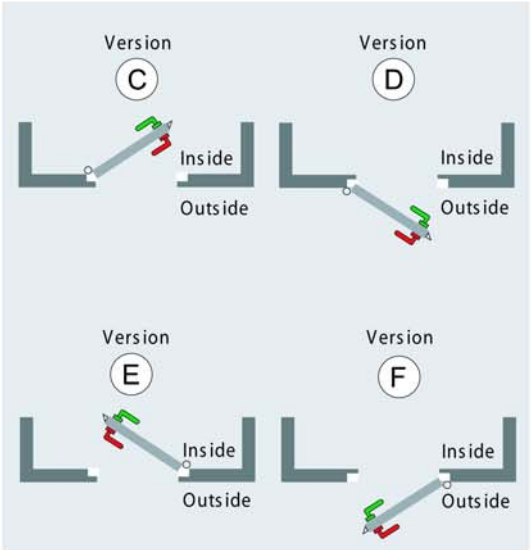






These electrical safety locks function according to the load current principle and are available with 35mm or 65mm bolts.
Four versions are available. They differ in respect of the side on which they open and the direction of opening.
They are designated C, D, E, and F.
The last digit in the type number indicates the version.
Please note that these locks are not classified according to the normal DIN system. They are viewed from the outside, i.e. from the free-wheeling handle side.
Example:
Lock 019 050 followed by "right, inward opening" corresponds to version E

Handles connected to the outside face of the lock are free-wheeling and can be electrically engaged if necessary. In this way the door can be opened from the inside.
The door has an emergency egress function, which means that it can be opened with the inside handle at any time.



	B	C	D	
Euro-prof.cyl.	72	30	8	mm
swiss prof.cyl.	74	28	6	mm

Warning!
Dimensions B, C and D depend on cylinder form.

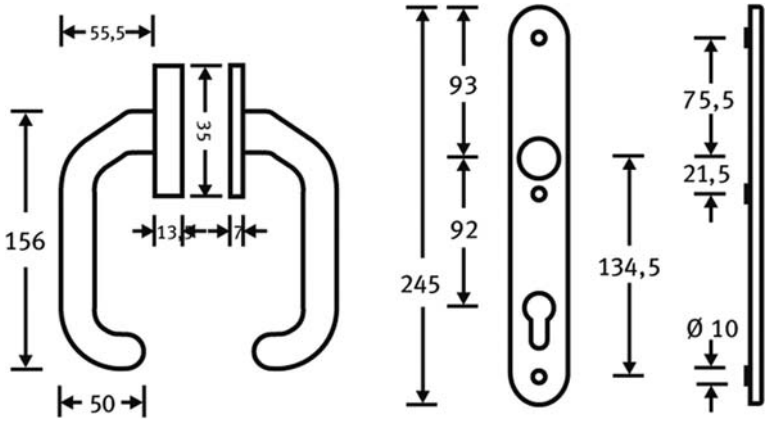
Fittings for safety-locks

On account of the free-wheeling function with split follower, the door handles require their own mechanical guidance. Our range of security lock fittings with cylinder protection are designed to match the electrical safety lock.

They offer the required mechanical guidance as well as stability. The fittings can be supplied in special steel or in anodized aluminium. For use in emergency doors according to EN179 only the fittings offered here are allowed.

019070 Stainless steel fitting for 809 lock with 35 mm bolt length

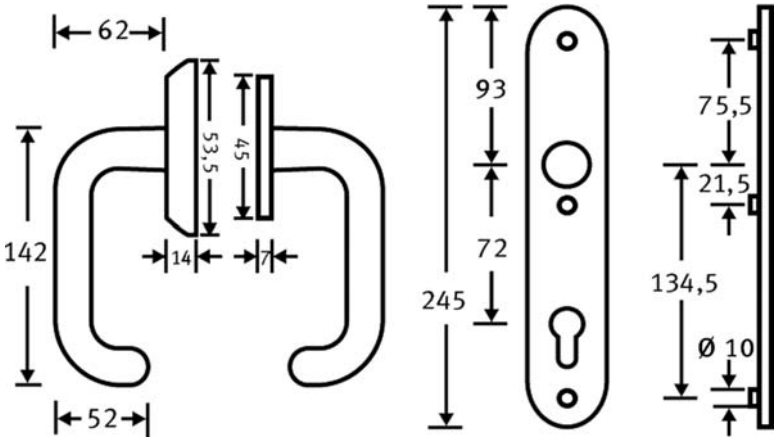




Fitting for backset of 35 mm and cylinder distances of 9 – 12 mm

019072 Stainless steel fitting for 809 lock with 65 mm bolt length





Fitting for backset of 65 mm and cylinder distances of 11 – 17 mm

Screws and spindles

The range of acessories exists of the following components:
- Screws
- Spindles for inside and outside
- Fittings
- Strike plates

the comonents are adjusted to each other to guarantee a non-problematic mounting of a complete lock with all its attachment parts.

Screws / spindles

Depending on the thickness of the door leaf and the backset different screws and spindles for inside and outside are required. The suitable screws and spindles can easily be found in the spreadsheet below. There also the corresponding item no. can be found. Please note that depending on the shape of the door handle 90° (DM 65 mm) and/or 45° (DM 35 mm) the XP and XF dimensions may be different as the space for acceptance of the spindle in the handle with 45° and 90° angeled handels is different.

Spindles for outside handles

Item no.	XF dimension for backset 35 mm	XF dimension for backset 65 mm	Length in mm	Price €
019222	21-24,5	14,5-24,5	50	
019225	31,5-35	25-35	60,5	
019228	42-45,5	35,5-45,5	71	
019231	52,5-56	46-58	81,5	
019232	56-77	56,5-75	100 adjust on site	

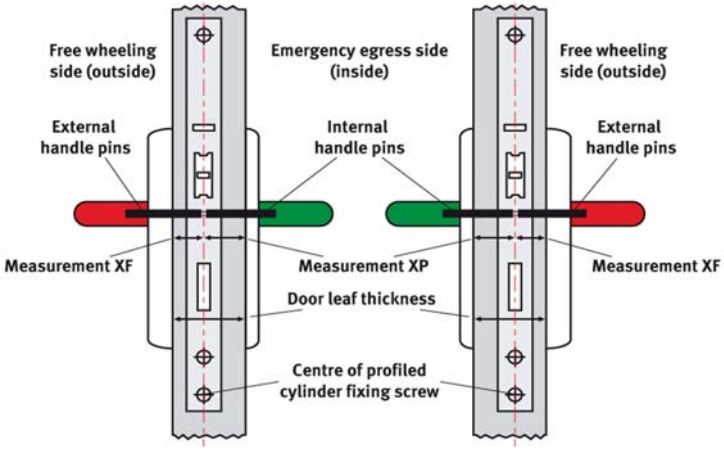
Spindles for inside handles

Item no.	XF dimension for backset 35 mm	XF dimension for backset 65 mm	Length in mm	Price €
019235	25-28,5	17,5-27,5	45	
019238	35,5-39	28-38	55,5	
019240	42,5-46	-	62,5	
019241	46-49,5	38,5-48,5	66	
019244	56,5-60	49-59	76,5	

3 x M6 / 2 x M8 screws each, corresponding allen wrenches

Screws

Item no.	Thickness of door leaf in mm	Length in mm	Price €
019202	43-47	50	
019203	48-52	55	
019204	53-57	60	
019205	58-62	65	
019206	63-67	70	
019207	68-72	75	
019208	73-77	80	
019209	78-82	85	



The diagram below gives all the relevant criteria for calculating the dimensions of the required components.

Face plates for for safety locks

The face plate is mounted in the door frame as the counterpart to the door lock.

Different face plates are available depending on the type of application, frame construction and security requirements.

022090 Adjustable locking plate



For electrical safety lock 809 and motor lock 509x.

019059 Flat face plate, 24 mm wide, for electrical safety lock





Electrical locking elements (DORMA)

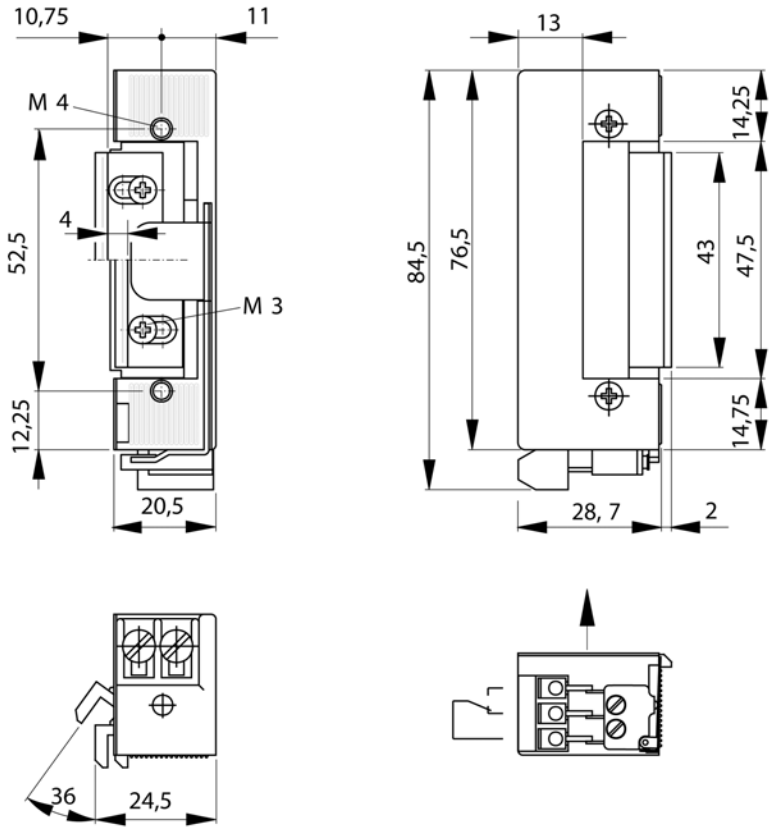
- Door strikes
- Motor locks
- Key switches
- Protective coatings

Electric door strikes / Security door strikes



Technical Data

Rated voltage	12 V DC
Current consumption	0,22 A
Operating time	100%
Dimensions	20,5 x 84 x 28 mm, RR Version (without strikie plate)



Dimensional drawing in mm (019500, 019502 and 019505)

019500 Electric door strike Universal DIN left and DIN right, load current

Symmetric standard door strike incl. monitoring contact, load current, with adjustable latch bolt, universal DIN L and DIN R, and for use with flush and plain doors (position-independent).

FLM 24 stainless steel flat striking plate and free wheeling diode.

019502 Electric door strike Universal DIN left and DIN right, quiescent current

Symmetric standard door strike incl. monitoring contact, no-load current, with adjustable latch bolt, universal DIN L and DIN R, and for use with flush and plain doors (position-independent).

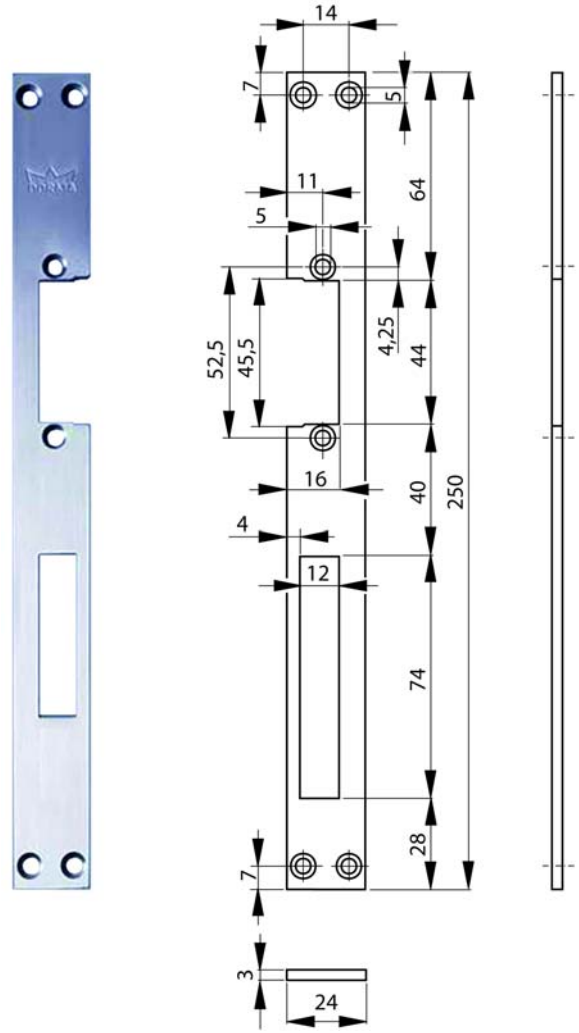
FLM 24 stainless steel flat striking plate and free wheeling diode.

019505 Security door strike DIN L and DIN R

Symmetric security door strike incl. monitoring contact, load current, with adjustable latch bolt, universal DIN L and DIN R, and for use with flush and plain doors (position-independent).

FLM 24 stainless steel flat striking plate and free wheeling diode.

Dimensional drawing of the striking plate



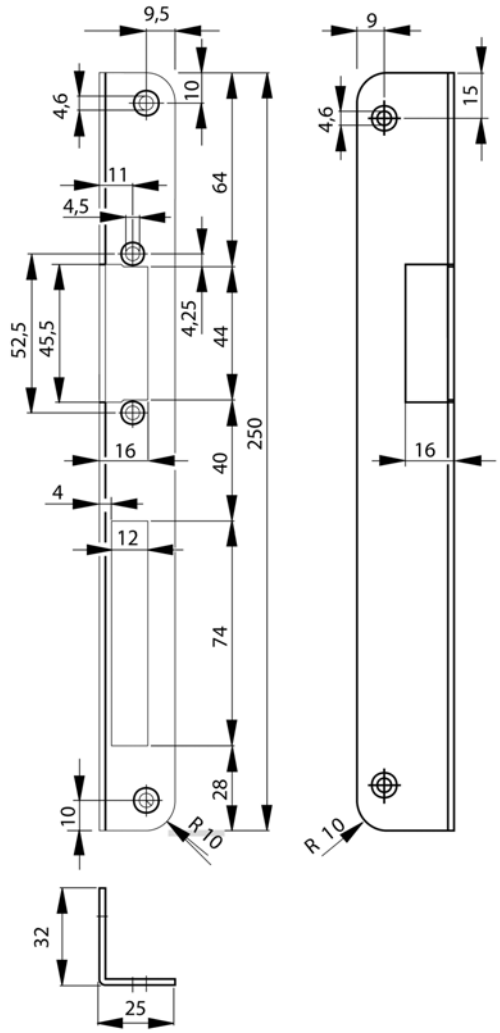
Dimensional drawing in mm (stainless steel flat striking plate FLM 24).

019510 Angled striking plate for door strikes 019500, 019502 and 019505 DIN R

Angled face plate DIN R, rounded-off edges

Technical Data

Dimensions (W1 x W2 x H x D)	25 x 32 x 250 x 3 mm



Dimensional drawing in mm.

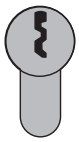
019511 Angled striking plate for door strikes 019500, 019502 and 019505 DIN L

Angled striking plate DIN L, rounded-off edges

Technical Data

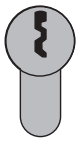
Dimensions (W1 x W2 x H x D)	25 x 32 x 250 x 3 mm

Variants SVP

Cylinder	Distance A	Door type	Bolt length B	Opening	DIN	Type	Item no.
PZ 	72	Rebated door Face plate: 235 x 20	55	outwards	L	SVP 6251	X
					R	SVP 6252	X
				inwards	L	SVP 6253	X
					R	SVP 6254	X
			60	outwards	L	SVP 6261	X
					R	SVP 6262	X
				inwards	L	SVP 6263	X
					R	SVP 6264	X
			65	outwards	L	SVP 6271	X
					R	SVP 6272	X
				einwärts	L	SVP 6273	X
					R	SVP 6274	X
		Plain door Face plate: 235 x 24	55	einwärts	L	SVP 6255/6258	X
					R	SVP 6256/6257	X
				outwards	L	SVP 6256/6257	X
					R	SVP 6255/6258	X
			60	inwards	L	SVP 6265/6268	X
					R	SVP 6256/6267	X
				outwards	L	SVP 6266/6267	X
					R	SVP 6265/6268	X
			65	inwards	L	SVP 6275/6278	X
					R	SVP 6276/6277	X
				outwards	L	SVP 6276/6277	019540.10
					L	SVP 6276/6277	019541.10
					R	SVP 6275/6278	019542.10
					R	SVP 6275/6278	019543.10
	92	Profile frame door Face plate: 270 x 24	35	inwards	L	SVP 6710	X
					R	SVP 6719	X
				outwards	L	SVP 6719	019544
					L	SVP 6719	019545
					R	SVP 6710	019546
					R	SVP 6710	019547
			45	inwards	L	SVP 6730	X
					R	SVP 6739	X
				outwards	L	SVP 6739	X
					R	SVP 6730	X
RZ 	74	Rebated door Face plate: 235 x 20	60	outwards	L	SVP 6361	X
					R	SVP 6362	X
				inwards	L	SVP 6363	X
					R	SVP 6364	X
			65	outwards	L	SVP 6371	X
					R	SVP 6372	X
				inwards	L	SVP 6373	X
					R	SVP 6374	X
		Plain door Face plate: 235 x 24	60	inwards	L	SVP 6365/6368	X
					R	SVP 6366/6367	X
				outwards	L	SVP 6366/6367	X
					R	SVP 6365/6368	X
			65	inwards	L	SVP 6375/6378	X
					R	SVP 6376/6377	X
				outwards	L	SVP 6376/6377	X
					R	SVP 6375/6378	X

All dimensions in mm.
L = DIN-left, R = DIN-right

X = available as featured article. All locks available as 12/24 V variant, operating current o quiescent current.
Further variants on request.

Cylinder	Distance A	Door type	Bolt length B	Opening	DIN	Type	Item no.
RZ 	94	Profile frame door Face plate: 270 x 24	35	inwards	L	SVP 6810	X
					R	SVP 6819	X
				outwards	L	SVP 6819	X
					R	SVP 6810	X
			45	inwards	L	SVP 6830	X
					R	SVP 6839	X
				outwards	L	SVP 6839	X
					R	SVP 6830	X
PZ 	72	Rebated door Face plate: 235 x 20	55		L	SVP 2251	X
					R	SVP 2252	X
			60		L	SVP 2261	X
					R	SVP 2262	X
			65		L	SVP 2271	X
					R	SVP 2272	X
			80		L	SVP 2281	X
					R	SVP 2282	X
			100		L	SVP 2291	X
					R	SVP 2292	X
		Plain door Face plate: 235 x 24	55		L/R	SVP 2257/2258	X
			60		L/R	SVP 2267/2268	X
	72	Plain door Face plate: 270 x 24	65		L/R	SVP 2277/2278	019522
	92	Profile frame door Face plate: 270 x 24	35		L/R	SVP 2719	019520
			45		L/R	SVP 2739	X
RZ 	74	Rebated door Face plate: 235 x 20	65		L	SVP 2371	X
					R	SVP 2372	X
			80		L	SVP 2381	X
					R	SVP 2382	X
		Plain door Face plate: 235 x 24	65		L/R	SVP 2377/2378	X
	94	Profile frame door Face plate: 270 x 24	35		L/R	SVP 2819	X
			45		L/R	SVP 2839	X
PZ 	72 230 V AC	Wooden door Flat face plate: 20	65		L	M-SVP 2000	019535
	72 230 V AC	Wooden door Flat face plate: 20	65		R	M-SVP 2000	019535.01
	92 230 V AC	Wooden door Flat face plate: 20	55		L	M-SVP 2000	019536
	92 230 V AC	Wooden door Flat face plate: 20	55		R	M-SVP 2000	019536.01
	92 230 V AC	Profile system U-face plate: 6 x 24	35		L	M-SVP 2000	019537.99
	92 230 V AC	Profile system U-face plate: 6 x 24	35		R	M-SVP 2000	019537.01
	92 230 V AC	Profile system Flat face plate: 3 x 24	35		L	M-SVP 2000	019538
	92 230 V AC	Profile system Flat face plate: 3 x 24	35		R	M-SVP 2000	019538.01

All dimensions in mm. X = available as featured article. All locks available as 12/24 V variant, operating current o quiescent current.

L = DIN-left, R = DIN-right Further variants on request.

019520 Motor lock DIN L / DIN R, bolt length 35, type SVP 2719



Self-locking anti-panic motor lock with mechanical and electrical sequence protector for operation via external motor lock control SVP-S2x DCW LON.

Equipped with microswitches for detecting “locked”, “unlocked”, “Door open/closed” and “Handle pressed / Panic unlocking”.

Two-point locking through spring initial tension after closing the door.

Three-step safety bolt.

Universal control latch (24 mm DIN left and DIN right face plate versions can be used).

Panic unlocking via handle, changing to unlocking from outside via key.

Technical Data

Material	face plate stainless steel
Dead bolt throw	20 mm
Square nut	9 mm
Distance	92 mm
perforated	for profile cylinder
Bolt length	35 mm, behind bolt length 15,5 mm
Box staple	in DIN dimensions, corrosion-resistant
Face plate	270 x 24 mm

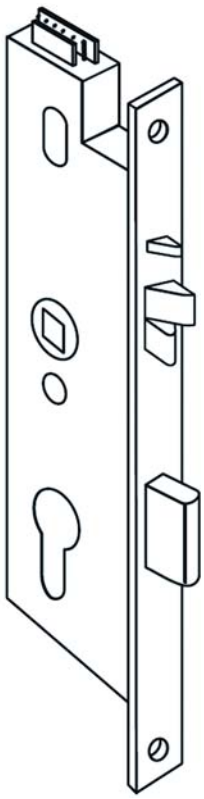
Stainless steel flanged face plate, universal for left- and right-hand profiled frame door.
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

A door Reed contact is required. Please order separately.

Flanged face plate included in the delivery.

Accessories:

019529 Connecting cable, 12-wire, 10 m, type SVP-A 1000



Picture showing article 019520

019522 Motor lock DIN L / DIN R, bolt length 65 mm, type SVP 2277/2278



Self-locking anti-panic motor lock SVP 2277/2278 with mechanical and electrical sequence protector for operation via external motor lock control SVP-S2x DCW LON.

Equipped with microswitches for detecting “locked”, “unlocked”, “Door open/closed” and “Handle pressed / Panic unlocking”.

Two-point locking through spring initial tension after closing the door.

Three-step safety bolt.

Universal control latch (24 mm DIN left and DIN right face plate versions can be used).

Panic unlocking via handle, changing to unlocking from outside via key.

Technical Data

Material	face plate stainless steel
Dead bolt throw	20 mm
Square nut	9 mm
Distance	72 mm
perforated	for profile cylinder
Bolt length	65 mm
Box staple	in DIN dimensions, corrosion-resistant
Face plate	235 x 24 mm

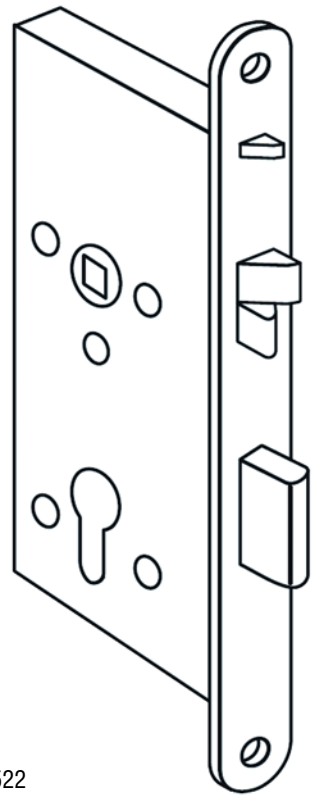
Stainless steel flanged face plate, universal for left- and right-hand plain doors.
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

A door Reed contact is required. Please order separately.

Flanged face plate included in the delivery.

Accessories:

019529 Connecting cable, 12-wire, 10 m, type SVP-A 1000



Picture showing article 019522

019525 SVP-PR 12 Power Reserve Module for fire and smoke protection doors



Additional module for ensuring automatic relocking in case of power failure, obligatory for use in fire and smoke protection doors.

Fixing material and connection cable.

SVP-S xx DCW motor lock controls

Re-locking time (2 - 255 seconds) via TMS-Soft software via integrated RS 232 interface freely parameterisable at any time.

Integrated seasonal timer, 3 non-isolated inputs for activation, and two potential-free relay outputs freely parameterizable.

Unlocking or Permanently Open (switches off self-locking, for example for day operation).

Freely selectable messages, “unlocked”, “locked”, “Door open/closed”, “Handle pressed/Panic unlocking” are available potential-free via relay outputs.

019526 SVP-S 22 DCW motor lock control 12/24 V



For SVP anti-panic motor locks.

Technical Data

Rated operating voltage	12/24 V DC
Quiescent current	ca. 65 mA
Contact rating	24 V DC, 0.5 A inductive / 1.0 A ohmic
Dimensions housing (W x H x D)	ca. 200 x 120 x 90 mm
Starting current	1 A at 12 V

For mounting in switch cabinets and rescue route panels RZ TMS (Item no. 019555).
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

019527 SVP-S 23 DCW motor lock control 12/24 V



For SVP anti-panic motor locks.

Technical Data	
Rated operating voltage	12/24 V DC
Quiescent current	ca. 65 mA
Contact rating	24 V DC, 0.5 A induktiv / 1.0 A ohmsch
Type of protection	IP 40
Dimensions housing (W x H x D)	ca. 200 x 120 x 90 mm
Starting current	1 A at 12 V

pcb mounted in plastic housing.
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

019528 SVP-S 24 DCW motor lock control 230 V



For SVP anti-panic motor locks.

Technical Data	
Rated operating voltage	230 V AC +/-10 %
Contact rating	24 V DC, 0,5 A inductive / 1.0 A ohmic
Type of protection	IP 54
Dimensions housing (W x H x D)	ca. 200 x 120 x 90 mm

Includes power supply unit mounted in plastic housing.
The “Permanently Open” function of motor locks must not be used on fire and smoke barrier doors since the locking of the door is not guaranteed in case of fire.
When using SVP 2000 motor locks in fire and smoke barrier doors, the control must be de-energised by means of a fire/smoke detector approved by the building authority!

019529 SVP-A 1000 connection cable, 12-wire, 10 m



Connecting cable, highly flexible, 12-wire, with coupling attached on one side for polarity-reversal-protected connection to the electric anti-panic locks, key switches and motor locks SVP 2000 and 6000.

Technical Data	
Length	10 m
Diameter	6.5 mm

Accessories:
Reed contact (see Catalouge chapter alarm contacts)

Anti-panic key switches, type 627x



Self-locking anti-panic key switch, load current design, inward right, electrically monitored, with divided follower, electrically activated external handle in load current design and mechanical sequence protector.

Equipped with microswitches for detecting “locked”, “unlocked”, “Door open/closed” and “Handle pressed / Panic unlocking”. “Handle pressed/Panic unlocking” switching point before “unlocked/locked”. In de-energized state, the external handle is uncoupled.

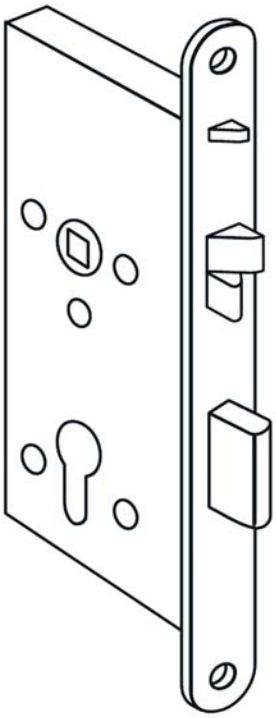
The external handle is coupled or uncoupled by activating the magnetic coil in the lock. The handle is always coupled in the escape direction.

Permanently open (permanent coupling of the external handle, for example for day operation) is possible.

Two-point locking through spring initial tension after closing the door.

Three-step safety bolt. Universal control latch. Unlocking from the outside by key or couplable external handle.

Picture of the article



019540.10 **SVP 6276/6277 Anti-panic key switch**

DIN L / DIN R, bolt length 65, 12 V DC, outward left.

Technical Data

perforated for	Profile cylinder
Distance	72 mm
Backset	65 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Rated operating voltage	12 V DC, stabilised
Current consumption	max. 0.4 A
Contact rating	max. 30 V DC, 1.5 W
Box staple	in DIN dimensions, corrosion-resistant
Dimensions face plate	235 x 24 mm

Stainless steel flanged face plate.
Used for DIN right plain door inward right and DIN left plain door outward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019541.10 SVP 6276/6277 Anti-panic key switch

DIN L / DIN R, bolt length 65, 24 V DC, outward left.

Technical Data

perforated for	Profile cylinder
Distance	72 mm
Backset	65 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Rated operating voltage	24 V DC, stabilised
Current consumption	max. 0.2 A
Contact rating	max. 30 V DC, 1.5 W
Box staple	in DIN dimensions, corrosion-resistant
Dimensions face plate	235 x 24 mm

Stainless steel flanged face plate.
Used for DIN right plain door inward right and DIN left plain door outward left.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019542.10 SVP 6275/6278 Anti-panic key switch

DIN L / DIN R, bolt length 65, 12 V DC, outward right.

Technical Data

perforated for	Profile cylinder
Distance	72 mm
Backset	65 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Rated operating voltage	12 V DC, stabilised
Current consumption	max. 0.4 A
Contact rating	max. 30 V DC, 1.5 W
Box staple	in DIN dimensions, corrosion-resistant
Dimensions face plate	235 x 24 mm

Stainless steel flanged face plate.
Used for DIN right plain door inward left and DIN left plain door outward right.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019543.10 SVP 6275/6278 Anti-panic key switch

DIN L / DIN R, bolt length 65, 24 V DC, outward right.

Technical Data

perforated for	Profile cylinder
Distance	72 mm
Backset	65 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Rated operating voltage	24 V DC, stabilised
Current consumption	max. 0.2 A
Contact rating	max. 30 V DC, 1.5 W
Box staple	in DIN dimensions, corrosion-resistant
Dimensions face plate	235 x 24 mm

Stainless steel flanged face plate.
Used for DIN right plain door inward left and DIN left plain door outward right.

Flanged face plate.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

Anti-panic key switches DIN L / DIN R



Self-locking anti-panic key switch, load current design, inward right, electrically monitored, with divided follower, electrically activated external handle in load current design and mechanical sequence protector.

Equipped with microswitches for detecting “locked”, “unlocked”, “Door open/closed” and “Handle pressed / Panic unlocking”.

“Handle pressed/Panic unlocking” switching point before “unlocked/locked”. In de-energized state, the external handle is uncoupled. The external handle is coupled or uncoupled by activating the magnetic coil in the lock. The handle is always coupled in the escape direction.

Permanently open (permanent coupling of the external handle, for example for day operation) is possible.

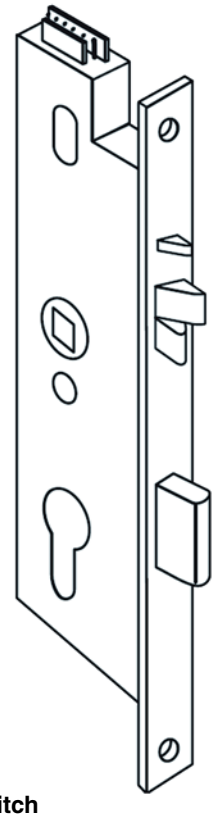
Two-point locking through spring initial tension after closing the door.

Three-step safety bolt.

Universal control latch (24 mm DIN left and DIN right face plate versions can be used).

Unlocking from the outside by key or couplable external handle.

Picture of the article



019544 **SVP 6719 Anti-panic key switch**

DIN L / DIN R, bolt length 35, 12 V DC, outward left.

Technical Data

perforated for	Profile cylinder
Distance	92 mm
Bolt length	35 mm, behind bolt length 15,5 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Connection	12 V DC, stabilised
Current consumption	max. 0,4 A
Contact rating	max. 30 V DC, 1,5 W
Box staple	in DIN dimensions, corrosion-resistant
Face plate	270 x 24 mm

Stainless steel flanged face plate.
Used for DIN right profiled frame door inward right and DIN left profiled frame door outward left.

Flanged face plate included in the delivery.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019545 SVP 6719 Anti-panic key switch

DIN L / DIN R, bolt length 35, 24 V DC, outward left.

Technical Data

perforated for	Profile cylinder
Distance	92 mm
Bolt length	35 mm, behind bolt length 15,5 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Connection	24 V DC, stabilised
Current consumption	max. 0,2 A
Contact rating	max. 30 V DC, 1,5 W
Box staple	in DIN-Abmessungen, korrosionsgeschützt
Face plate	270 x 24 mm

Stainless steel flanged face plate.
Used for DIN right profiled frame door inward right and DIN left profiled frame door outward left.

Flanged face plate included in the delivery.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019546 SVP 6710 Anti-panic key switch

DIN L / DIN R, bolt length 35, 12V DC, outward right.

Technical Data

perforated for	Profile cylinder
Distance	92 mm
Bolt length	35 mm, behind bolt length 15,5 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Connection	12 V DC, stabilised
Current consumption	max. 0,4 A
Contact rating	max. 30 V DC, 1,5 W
Box staple	in DIN dimensions, corrosion-resistant
Face plate	270 x 24 mm

Stainless steel flanged face plate.
Used for DIN right profiled frame door outward right and DIN left profiled frame door inward left.

Flanged face plate included in the delivery.

Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

019547 SVP 6710 Anti-panic key switch

DIN L / DIN R, bolt length 35, 24V DC, outward right.

Technical Data

perforated for	Profile cylinder
Distance	92 mm
Bolt length	35 mm, behind bolt length 15,5 mm
Dead bolt throw	20 mm
Square nut	9 mm, split
Connection	24 V DC, stabilised
Current consumption	max. 0,2 A
Contact rating	max. 30 V DC, 1,5 W
Box staple	in DIN dimensions, corrosion-resistant
Face plate	270 x 24 mm

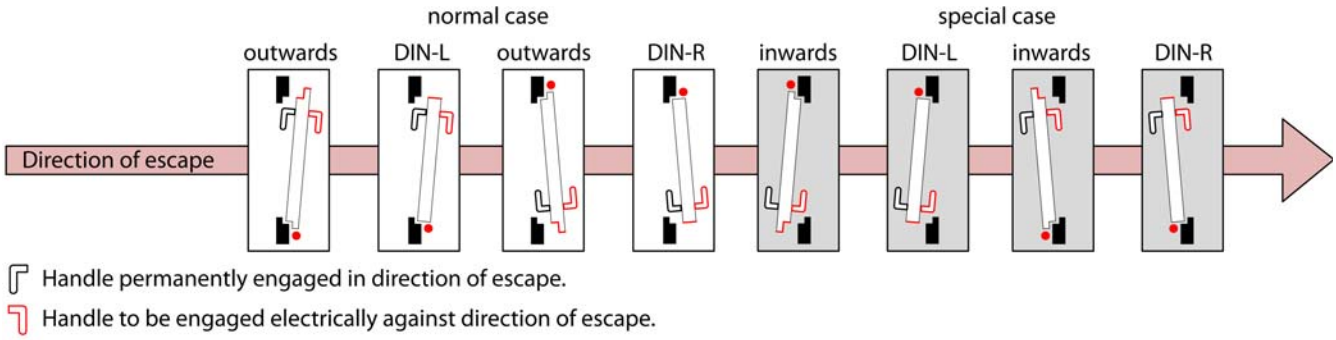
Stainless steel flanged face plate.
Used for DIN right profiled frame door outward right and DIN left profiled frame door inward left.

Flanged face plate included in the delivery.

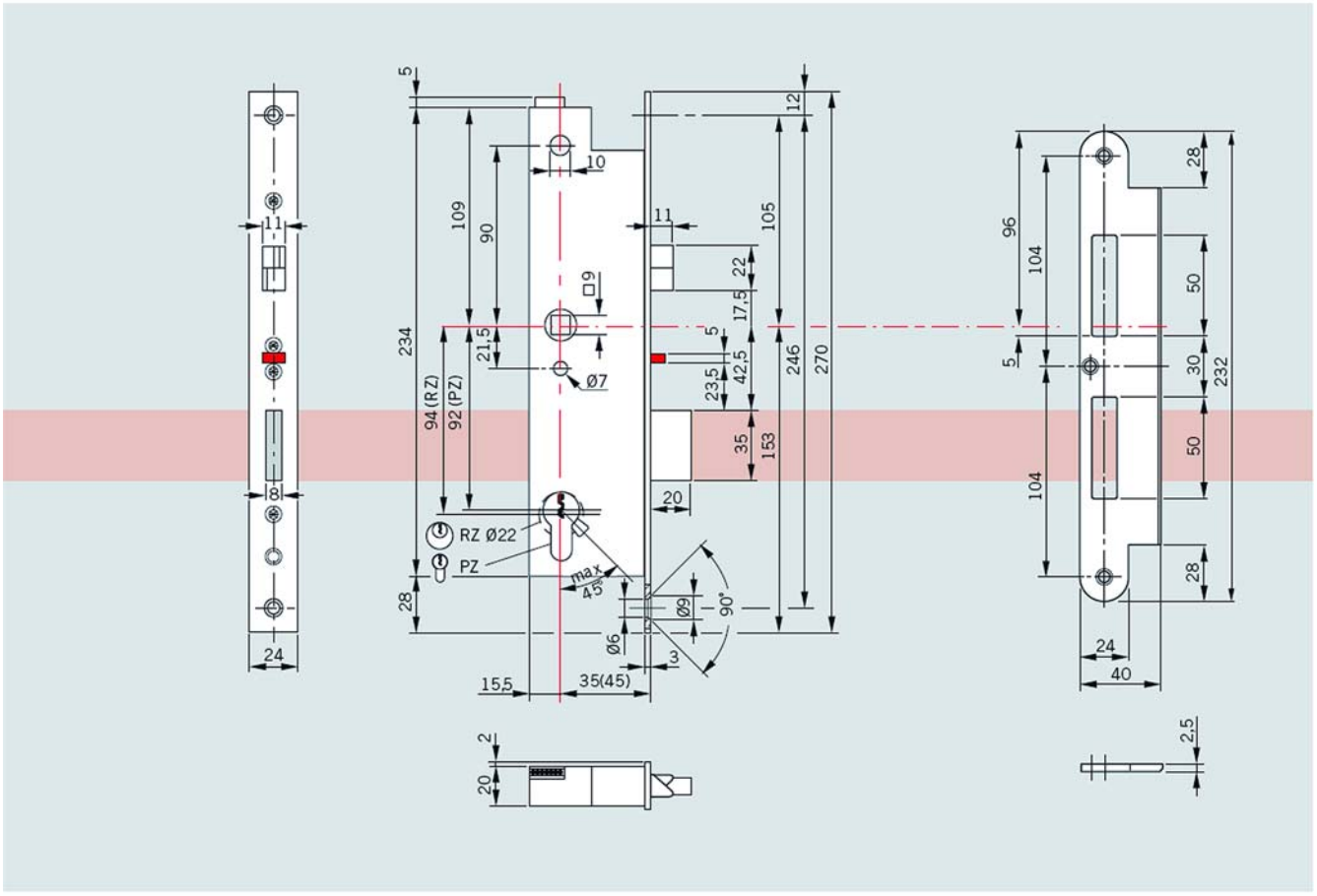
Accessories:

019529 SVP-A 1000 connection cable, 12-wire, 10 m

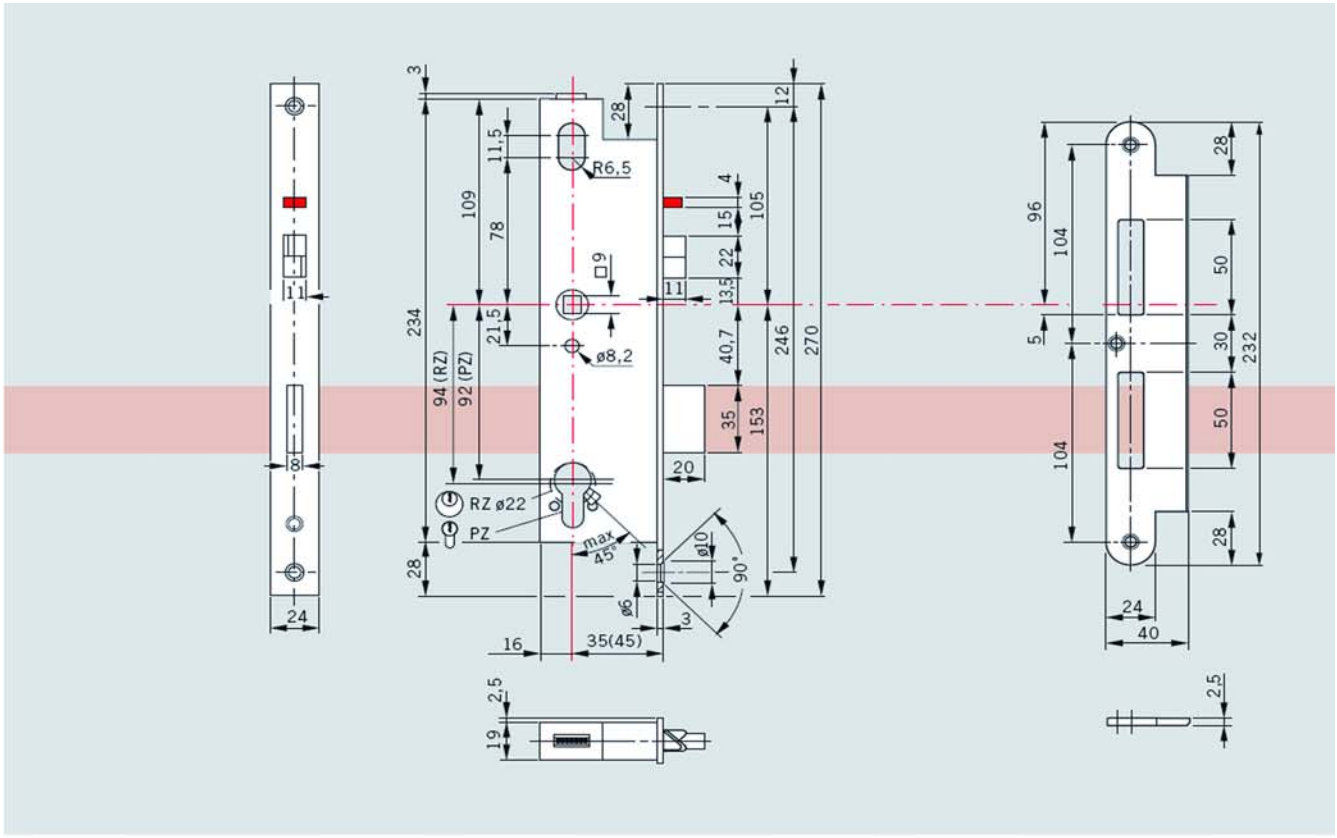
Application example



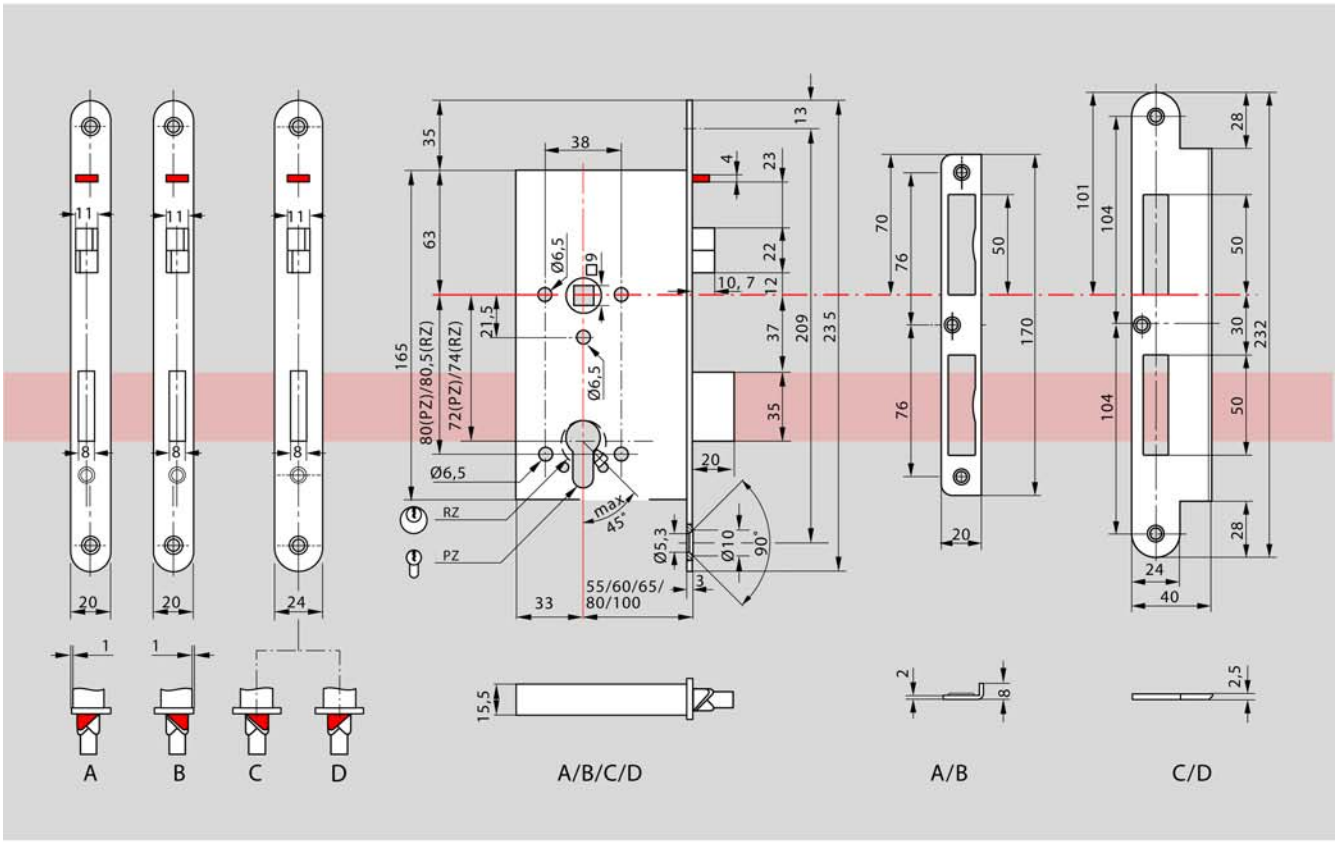
Dimensional drawings for motor locks type SVP 2xxx and key switches SVP 6xxx



Motor lock type 2719 for profile frame door



Key switch type SVP 6719, SVP 6710 for profiled frame door



Motor locks type SVP 227x and key switches type SVP 627x for massive door leaf (plain door)

Multi-point locking system M-SVP 2000



Range of application

The M-SVP 2000 is used in particular in automated or access-controlled entry doors. Other fields of application include doors with rescue route or fire protection requirements.

Function

Say goodbye to locking. Unlocking by motor, by hand via handle from the inside or by key from the outside. Automatic re-locking by motor after closing the door, permanently open with latch-hold function or day latch.

Particularity

Maximum tamper protection, intrusion resistance up to resistance class 4 in suitable door systems. Connection of external access control systems. Profile-based delivery kits for steel and aluminium profiles and wooden doors.

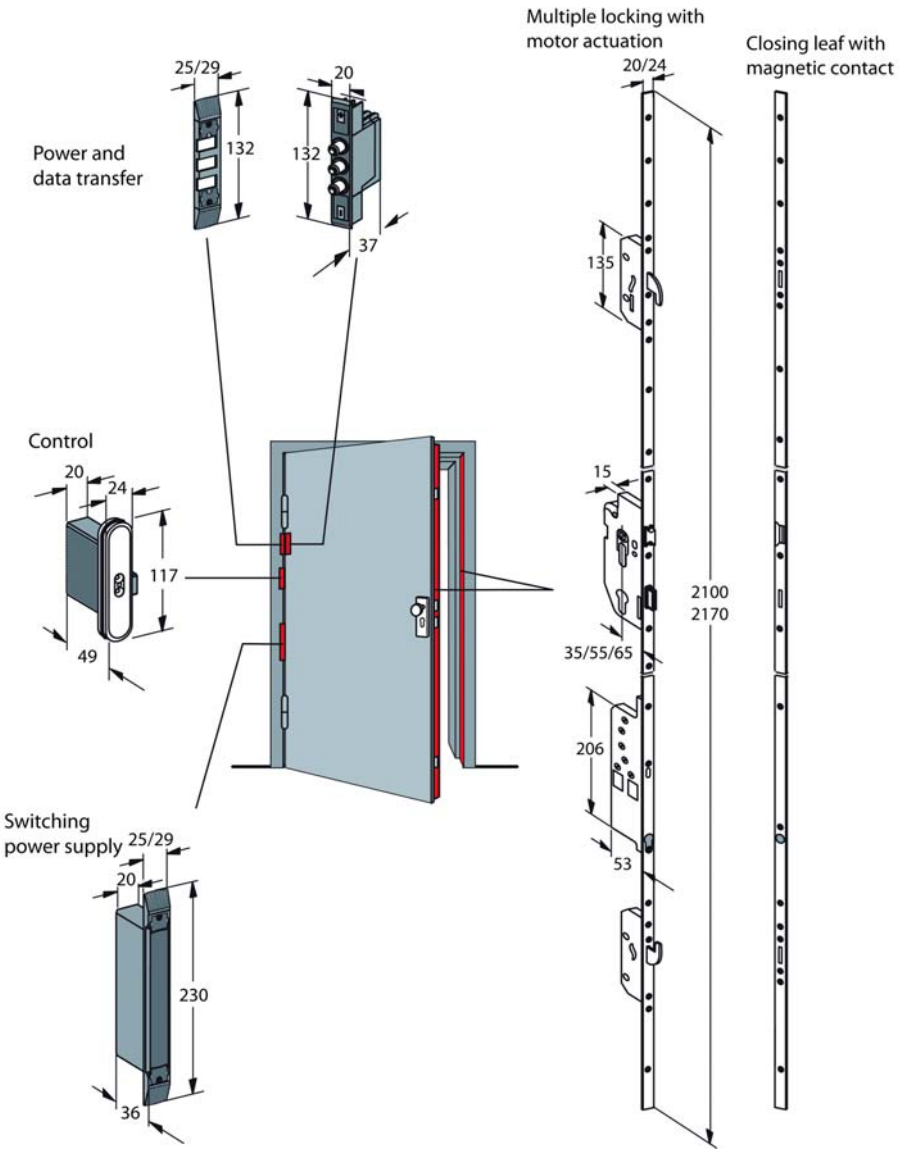
Technical Data

Connection voltage	230 V AC
Length	2170 mm

For freewheeling cylinders PZ or RZ only.

Performance Features

- Self-locking anti-panic lock with motorized steel power cam bolt
- Motorized locking and unlocking via twin motor
- Panic unlocking via door handle
- Inputs for temporary/permanent unlocking and day latch function
- Potential-free outputs for Door open/closed and activation of Automatic mode
- Visual and audible signalling of the locking status
- Tappet contacts for wireless current and data transmission
- Integrated magnetic contact
- 9 mm square follower
- Tappet contacts for wireless current and data transmission, for freewheeling cylinders PZ or RZ only, integrated magnetic contact



For the dimensions in mm, see the following Technical Data.

019535 Anti-panic lock M-SVP 2000 H 65/72 DIN L

For use in wooden doors.

Technical Data

Distance	72 mm
Backset	65 mm
Flach-Stulp	20 mm

Lock, faceplate, cable and cable ducts, current and data transmitters, control unit and power supply unit, incl. mounting instructions and milling pattern.

019535.01 Anti-panic lock M-SVP 2000 H 65/72 DIN R

For use in wooden doors.

Technical Data

Distance	72 mm
Backset	65 mm
Flach-Stulp	20 mm

Lock, faceplate, cable and cable ducts, current and data transmitters, control unit and power supply unit, incl. mounting instructions and milling pattern.

019536 Anti-panic lock M-SVP 2000 H 55/92 DIN L

For use in wooden doors.

Technical Data

Distance	92 mm
Backset	55 mm
Flach-Stulp	20 mm

Lock, faceplate, cable and cable ducts, current and data transmitters, control unit and power supply unit, incl. mounting instructions and milling pattern.

019536.01 Anti-panic lock M-SVP 2000 H 55/92 DIN R

For use in wooden doors.

Technical Data

Distance	92 mm
Backset	55 mm
Flach-Stulp	20 mm

Lock, faceplate, cable and cable ducts, current and data transmitters, control unit and power supply unit, incl. mounting instructions and milling pattern.

Multi-point locking system M-SVP 2000 UU6



- Self-locking anti-panic lock with motorized steel power cam bolt
- Motorized locking and unlocking via twin motor
- Panic unlocking via door handle
- Inputs for temporary/unlocking and day latch function
- Potential-free outputs for Door open/closed and activation of Automatic mode
- Optical and acoustic signalling of the locking status
- Tappet contacts for wireless current and data transmission, for freewheeling cylinders PZ or RZ only
- integrated magnetic contact
- 9 mm square follower.

Technical Data

Connection voltage	230 V AC
Backset	35 mm
Distance	92 mm
U-face plate	6 x 24 mm
U-closing leaf	5,5 x 24 mm

For use in profile systems:
- Heroal 82/90
- Hueck BSC T30
- Schüco Royal S50N
- Schüco Royal RS65
- Schüco Royal S65
- Schüco Royal S70

Lock, faceplate, cable and cable ducts, current and data transmitters, control unit and power supply unit, incl. mounting instructions and milling pattern.

019537.01 **Anti-panic lock M-SVP 2000 UU6 35/92 DIN R**

019537.99 **Anti-panic lock M-SVP 2000 UU6 35/92 DIN R**

Multi-point locking system M-SVP 2000 FF



- Self-locking anti-panic lock with motorized steel power cam bolt
- Motorized locking and unlocking via twin motor
- Panic unlocking via door handle
- Inputs for temporary/unlocking and day latch function
- Potential-free outputs for Door open/closed and activation of Automatic mode
- Optical and acoustic signalling of the locking status
- Tappet contacts for wireless current and data transmission, for freewheeling cylinders PZ or RZ only
- integrated magnetic contact
- 9 mm square follower.

Technical Data

Connection voltage	230 V AC
Backset	35 mm
Distance	92 mm
Flach-Stulp	3 x 24 mm
Flat closing leaf	3 x 24 mm

For use in profile systems:
- Alcoa AA 610
- Hueck 1.0
- Jansen Janisol T30
- Wicona Wicstyle 65
- Wicona Wicstyle 65N
- Wicona Wicstyle 77

Lock, faceplate, cable and cable ducts, current and data transmitters, control unit and power supply unit, incl. mounting instructions and milling pattern.

019538 **Anti-panic lock M-SVP 2000 FF DIN L**

019538.01 **Anti-panic lock M-SVP 2000 FF DIN R**

Armatures for safety locks

019530 Aluminium protective coating, PZ 72 mm, long plate, type SVP-SB 210



Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 2000 full-leaf locks, checked for fire and emergency exit doors, long plate, replacement kit including 9 mm square pin. Also for use with M-SVP 2000 for full-leaf doors (bolt length 65 mm).

Technical Data

Distance	Profile cylinder 72 mm
Door leaf thickness	45 - 54 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

019531 Aluminium protective coating, PZ 92 mm, short plate, type SVP-SB 710



Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 2000 tubular frame locks, checked for fire and emergency exit doors, short plate, replacement kit including 9 mm square pin. Also for use with MSVP 2000 for profiled systems (bolt length 35 mm).

Technical Data

Distance	Profile cylinder 92 mm
Door leaf thickness	55- 74 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

019534 Aluminium protective coating, PZ 72 mm, long plate, type SVP-SB 211



Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 6000 full-leaf locks, checked for fire and emergency exit doors, long plate, handle on both sides includes divided square pin (bolt length 65 mm).

Technical Data

Distance	Profile cylinder 72 mm
Door leaf thickness	45 - 54 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

019533 Aluminium protective coating, PZ 92 mm, short plate, type SVP-SB 711

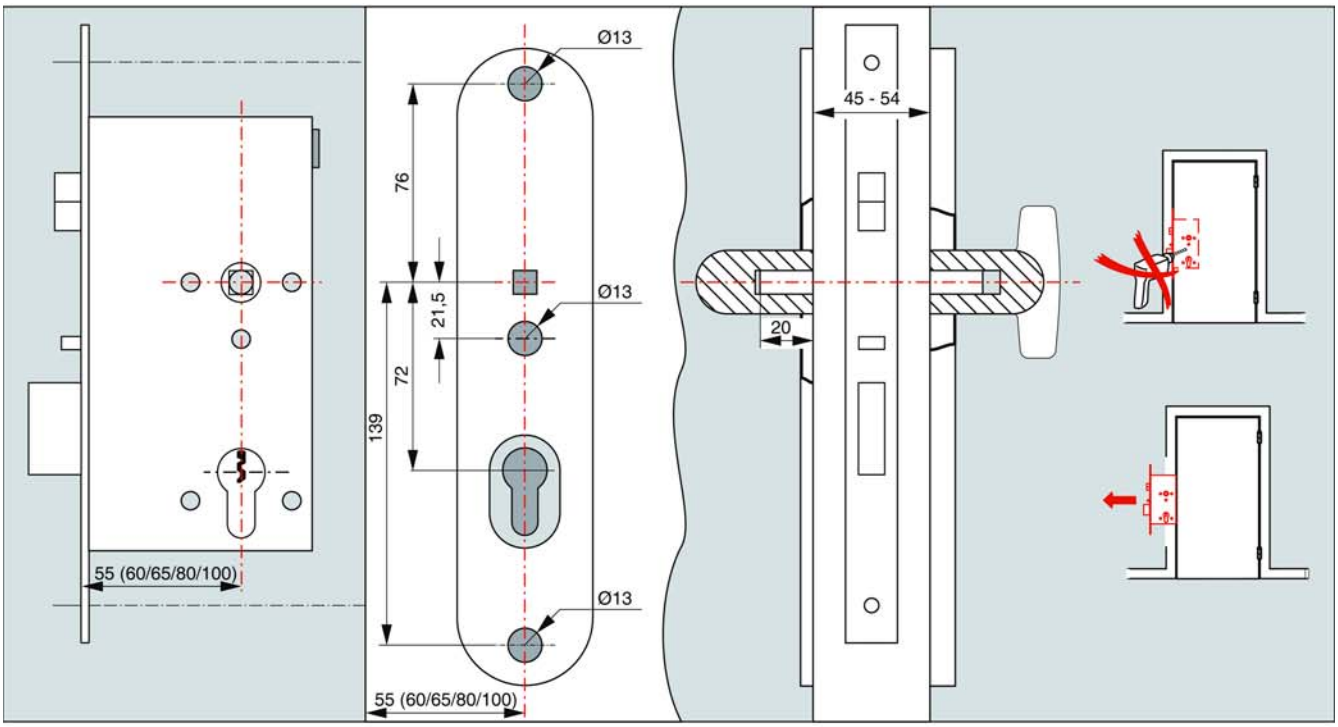


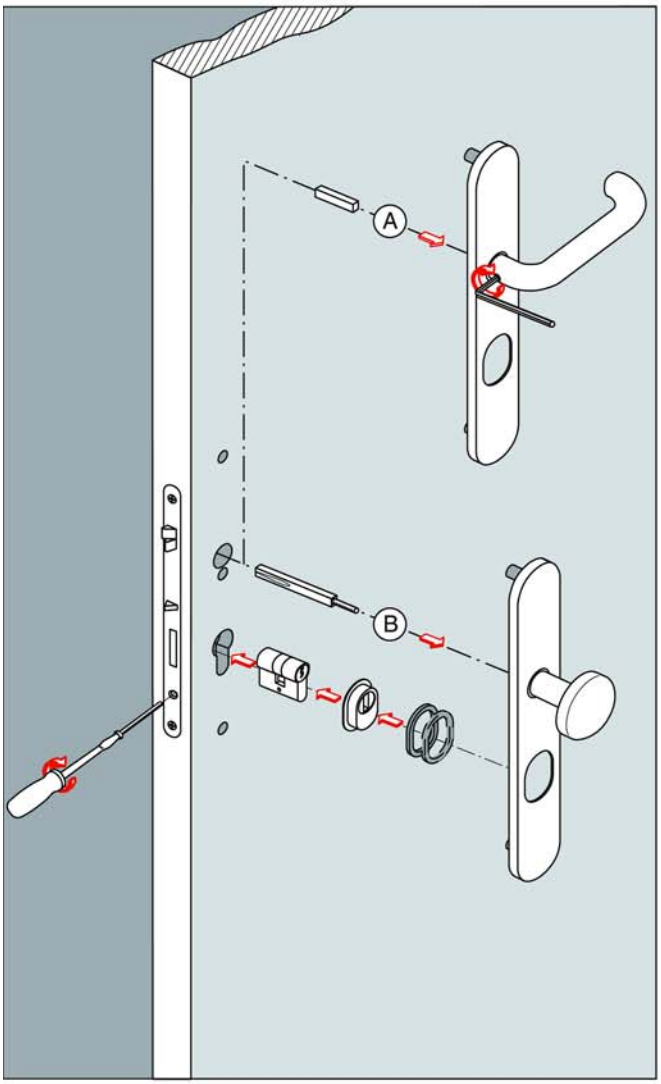
Protective coating according to DIN 18257 ES 1 including core drawback protector for SVP 6000 tubular frame locks, checked for fire and emergency exit doors, short plate, handle on both sides includes divided square pin (bolt length 35 mm).

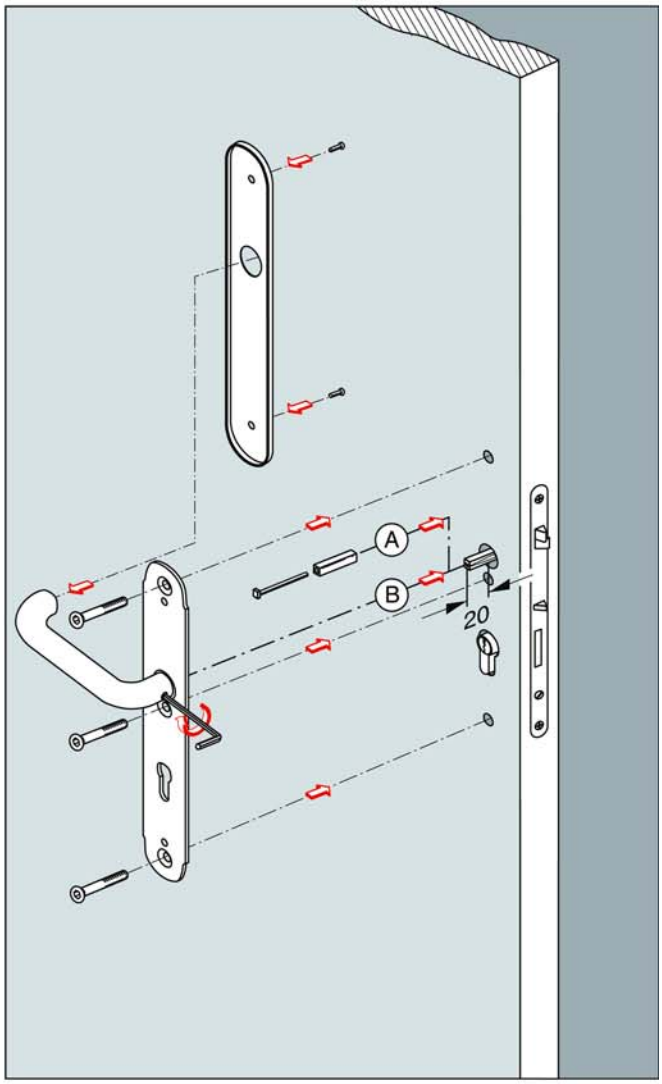
Technical Data

Distance	Profile cylinder 92 mm
Door leaf thickness	55 - 74 mm
Cylinder excess length	9 - 15 mm
Colour	alu-silver

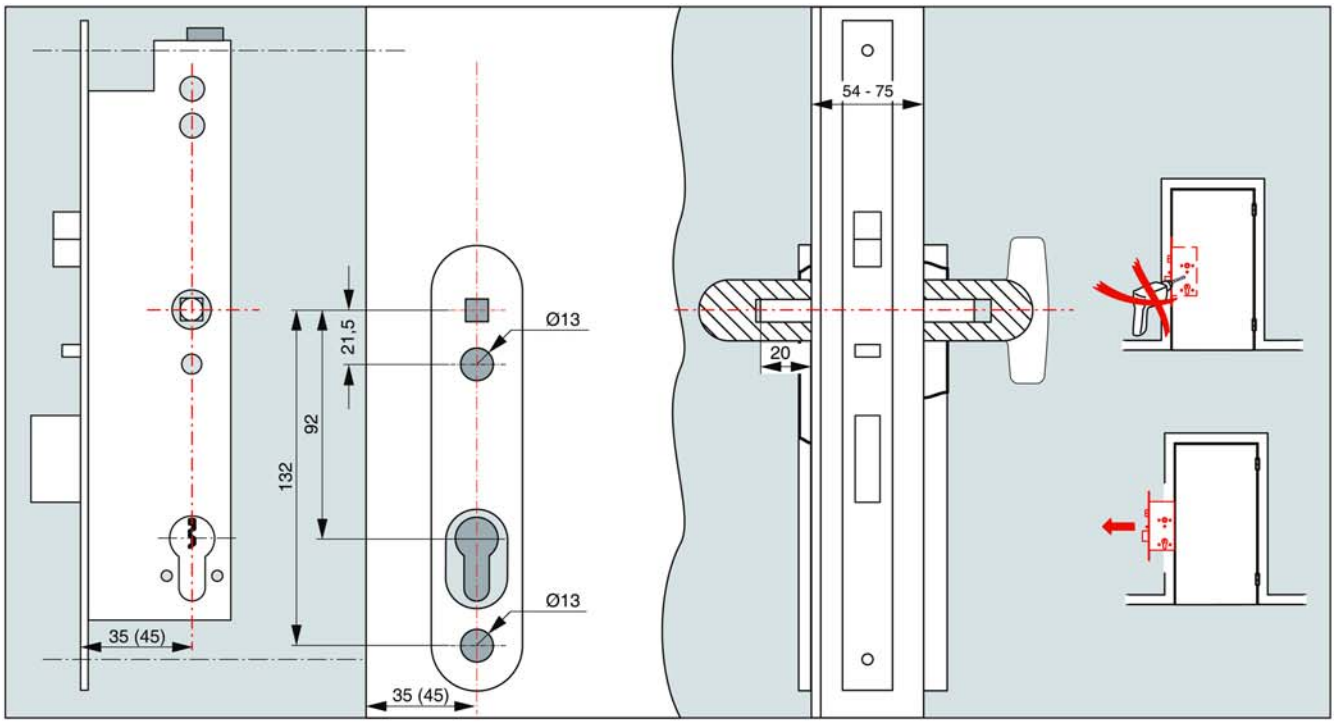
Dimensional drawings for protective coatings SVP-SB 21x

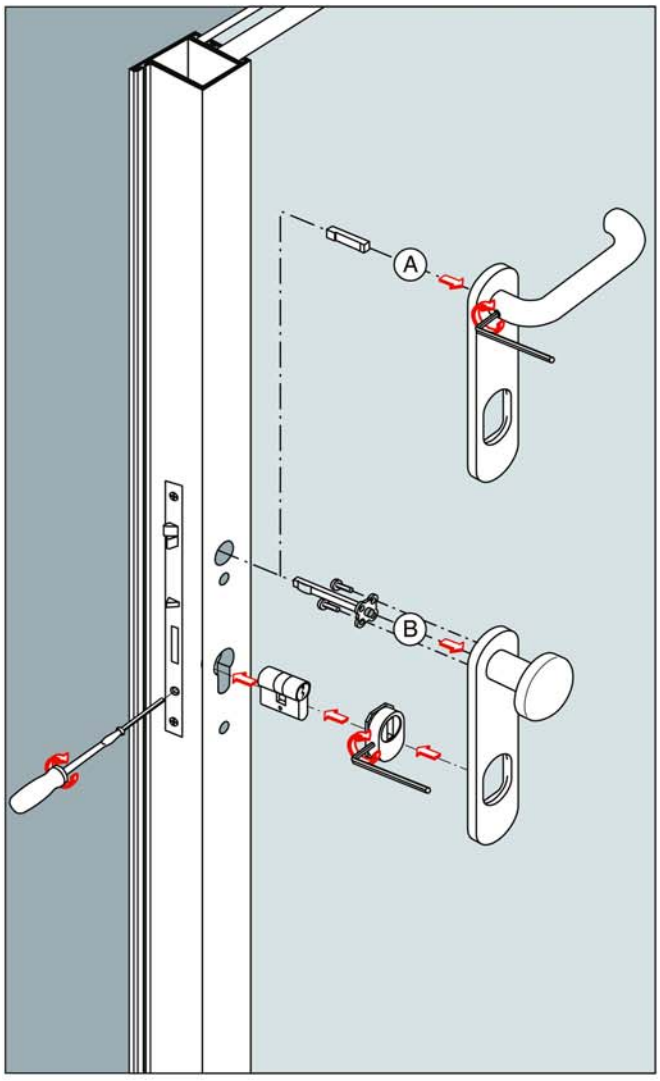


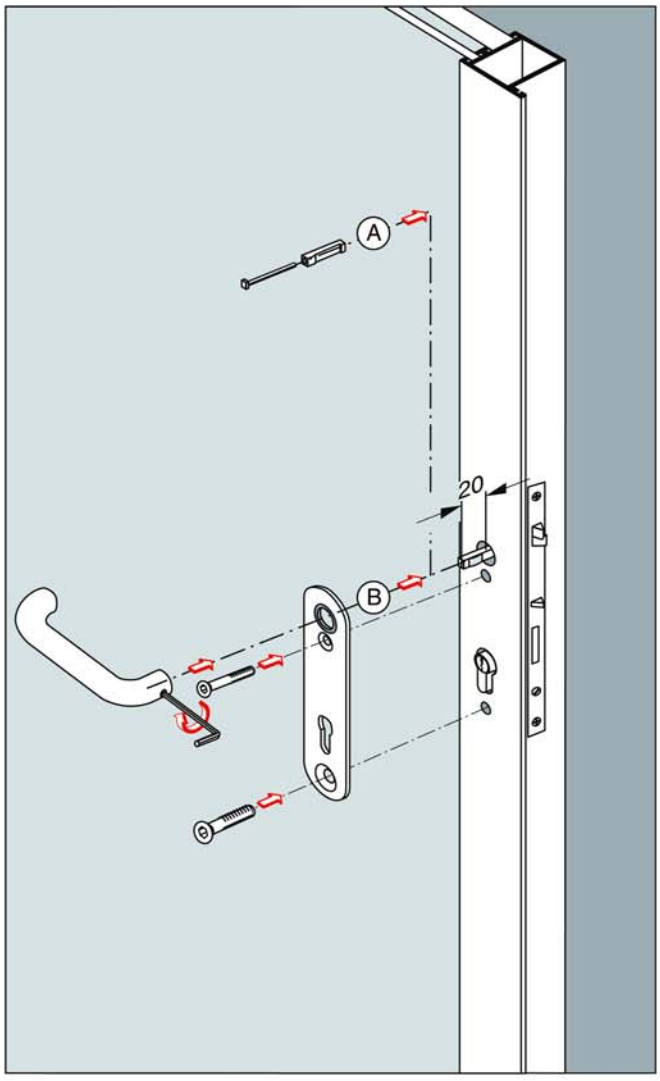




Dimensional drawings for protective coatings SVP-SB 71x







Notes



Order forms

- WINMAG plus
- WINMAG Lite
- IQ SystemControl / WINFEM-User
- IQ MultiAccess / MultiAccess Lite

Customer service

List of article numbers

Terms and conditions

CO no.

Order form WINMAG plus

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Central Monitoring Station/Building

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone: **Fax:**	+49 7431/000-1234
E-mail: (max. 45 characters)	info@brown.uk

2. Ordering (One of the following must be selected.)

2.1 WINMAG plus Management System Basic Package (select options on page 2)

☐ 013610 WINMAG plus standard (Demo without licence), must be ordered for every new installation, **and**
- ☐ 013630 WINMAG plus standard licence (parallel interface hardware key), **or**
- ☐ 013631 WINMAG plus standard licence (USB interface hardware key)

(The standard licence requires 013610 - please order or download from our website.)

☐ 013590 Gateway including OPC-Server and USB dongle

_____ 013618 Data Points Package (must be ordered, 1 package = 500 data points)

☐ 013607 Developer Kit WINMAG SDK
(This package contains the ConnectionServer Developer Kit including the complete documentation)

☐ 012590 PanelPC with WINMAG touch and USB dongle (incl. option intrusion and fire detection)

☐ 012591 WINMAG touch without PanelPC (basic package with USB dongle)

Languages:
☐ Chinese (CN) ☐ Czech (CZ) ☐ German (DE) ☐ English (UK) ☐ Spanish (ES)
☐ French (FR) ☐ Hungarian (HU) ☐ Italian (IT) ☐ Dutch (NL) ☐ Romanian (RO)
☐ Russian (RU) ☐ Croatian (HR) ☐ Slovak (SK) ☐ Polish (PL)

2.2 WINMAG Upgrade

☐ 013616 Upgrade of a WINMAG-installation from V6.0 to WINMAG plus or

☐ 013617 Upgrade of a WINMAG-installation up to V5.0 to WINMAG plus
- ☐ for USB interface
- ☐ for Parallel interface

Please enter the licence/update number. **Update-No.:**_____

☐ 013636 WINMAG Lite Upgrade to WINMAG plus Basic Package **Update-No.:**_____

2.3 WINMAG / WINMAG plus later option upgrade (select options on page 2)

☐ 013609 retrofitting of options for WINMAG (from V6.0 on) **Update-No.:**_____

Updates or option upgrades require the update number!

CO no.

Order form WINMAG plus

Telefax master copy

3. Options (a basic license is required for each connection)

		Multi-station / distributed PCs					
Item no.	Designation	Computer 1	Computer 2	Computer 3	Computer 4	Computer 5	Computer 6
	Computer name / interface						
013601	WINMAG Option Intrusion Detection Technology						
013643	WINMAG Option Galaxy Dimension						
013626	WINMAG Option Fire Detection Technology						
013642	WINMAG Option Notifier Fire Panels						
013603	WINMAG Option Access control						
013638	WINMAG Option Honeywell video						
013620	WINMAG Option MaxPRO VMS						
013604	WINMAG Option Video technology						
013629	WINMAG Option Geutebrück Video Connection						
013619	WINMAG Option HeiTel Video Connection						
013658	WINMAG Option SeeTec Video Connection						
013632	WINMAG Option Dallmeier Video Connection						
013605	WINMAG Option Escape Route Technology						
013623	WINMAG Option DEZ 9000 Interfaceing						
013646	WINMAG Option DS6750/DS7700						
013608	WINMAG Option Remonte Data Transmission						
013606	WINMAG Option SDK						
013611	WINMAG Option OPC Server[1)]						
013612	WINMAG Option OPC Client						
013613	WINMAG Option Notifikation						
013650	WINMAG Option Escalation						
013651	WINMAG Option DTMF						
013652	WINMAG Option Client Processing Ability						
013653	WINMAG Option Multi-Monitor						
013660	WINMAG Option WEBX						
013655	Licence Auto-CAD® connection						
013624	WINMAG Option Redundancy						
013625	WINMAG Option Client Connection[2)]						
013627	WINMAG Option BACnet Server						
013628	WINMAG Option BACnet Client						
013656	WINMAG plus Licence Nurse						

1) Please order the required quantity of 013618 on page 1.

2) Number of PCs to which network data are transmitted.

All sales are subject to our sales and delivery conditions. · Subject to modifications and errors.

CO no.

Order form WINMAG Lite

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Central control unit/building

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone:	+49 7431/000-1234
Fax:	+49 7431/000-5678
E-mail: (max. 45 characters)	info@brown.uk

2. Ordering

2.1 WINMAG Lite

☐ 013635 WINMAG Lite, package incl. USB-Dongle, **(Only one licence available!)**

☐ 013637 WINMAG Lite Upgrade to WINMAG lite latest version

All sales are subject to our sales and delivery conditions. · Subject to modifications and errors.

CO no.

Order form IQ SystemControl / WINFEM-User

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Main building

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone:	+49 7431/000-1234
Fax:	+49 7431/000-5678
E-mail: (max. 45 characters)	info@brown.uk

2. Ordering data

2.1 IQ SystemControl

- ☐ 013596 IQ SystemControl (for 561-MB100.10/48/24 from V9 on)
- ☐ 013598 _____ Quantity of Option IQ User ControlCenter
- ☐ 029650 Option SALTO connection
- ☐ 029651 _____ Quantity of SALTO readers

2.2 WINFEM-User

- ☐ 013595 WINFEM-User (for 561-MB100/48/24 up to V8 and 561-MB256 plus)

2.3 Language: _____

All sales are subject to our sales and delivery conditions. · Subject to modifications and errors.

CO no.

Order form IQ MultiAccess / MultiAccess Lite

Telefax master copy

Honeywell Security Group
Novar GmbH
Johannes-Mauthe-Str. 14
72458 Albstadt

Internal Sales Department:
Fax: +49 7431/801-1671

1. Licence (Please fill in the form for data collection.)

End user data: (data must be entered: min. 8, max. 45 characters)	**Example:**
Name:	Novar GmbH
Street:	Johannes-Mauthe-Str. 14
ZIP-Code/Residence:	72458 Albstadt
Country:	Germany
Object:	Access control system
Licence number: (for updates or function extensions)	

Installer data: (data must be entered: min. 3, max. 45 characters)	**Example:**
Name:	Brown Engineering Co.
Street:	Liverpool Road
ZIP-Code/Residence:	GBM3 4 Manchester
Country:	United Kingdom
Contact person:	Edward G. Wilson
Entry of data optional: (max. 12 characters)	
Phone:	+49 7431/000-1234
Fax:	+49 7431/000-5678
E-mail: (max. 45 characters)	info@sample.uk

2. Order data

1. **MultiAccess Lite:** (only tick one option)

   ☐ 027009 Demo version MultiAccess Lite

   ☐ 027010 MultiAccess Lite, latest version for up to 800 persons

   ☐ 027011.99 MultiAccess Lite, upgrade from EnterpriseAccess 2000

2. **Demo version IQ MultiAccess**

   ☐ 029600 Demo version IQ MultiAccess

CO no.

Telefax master copy

Order form IQ MultiAccess / MultiAccess Lite

3. Order data IQ MultiAccess

Basic Package	Professional Package	Licence for number of persons
☐ 029601	☐ 029631	up to 300 persons
☐ 029602	☐ 029632	up to 500 persons
☐ 029603	☐ 029633	up to 800 persons
☐ 029604	☐ 029634	up to 1000 persons
☐ 029605	☐ 029635	up to 1500 persons
☐ 029606	☐ 029636	up to 2000 persons
☐ 029607	☐ 029637	up to 3000 persons
☐ 029608	☐ 029638	up to 5000 persons
☐ 029609	☐ 029639	up to 7500 persons
☐ 029610	☐ 029640	up to 10000 persons
☐ 029646	☐ 029647	more than 10000 persons

Only for professional package:

Which SQL database (version) is to be supported...

4. Licence extensions IQ MultiAccess, basic and professional version

☐ 029611	from 300 to 500 persons
☐ 029612	from 500 to 800 persons
☐ 029613	from 800 to 1000 persons
☐ 029614	from 1000 to 1500 persons
☐ 029615	from 1500 to 2000 persons
☐ 029616	from 2000 to 3000 persons
☐ 029617	from 3000 to 5000 persons
☐ 029618	from 5000 to 7500 persons
☐ 029619	from 7500 to 10000 persons
☐ 029620	from 10000 to unlimited number of persons

5. Order options for IQ MultiAccess, basic and professional version

☐ 029621	Option Database partitioning for multi-tenant systems
☐ 029622	Option Antipassback, balancing, barring repeated entry, virtual tableau
☐ 029624	Option Life image comparison
☐ 029625	Option card and form management
☐ 029626	Option Integration of Intruder Alarm Panels MB 24 / 48 / 100
☐ 013598 _____	Quantity of Option IQ User ControlCenter
☐ 029650	Option SALTO connection
☐ 029651 _____	Quantity of SALTO readers

6. Upgrades for basic and professional version

☐ 029641	Upgrade MultiAccess for Windows to IQ MultiAccess current version
☐ 029642	Upgrade MultiAccess Lite to IQ MultiAccess with 800 persons
☐ 029643	Upgrade IQ SystemControl to IQ MultiAccess with 500 persons incl. 029626
☐ 029645	Upgrade IQ MultiAccess older version to IQ MultiAccess current version

Customer Service Centre Application Technology

To assist you in troubleshooting and repair, our service team can be contacted daily during the following office hours:

Monday - Thursday	7:30 h to 17:00 h
Friday	7:30 h to 15:00 h

This service is free of charge. When you use this service, please give your customer number.

Attention! No commissioning of systems any longer possible over the telephone.

For the Security product line, our service team can be reached at the following collective call number:

Support international	+49 (0) 7431 / 801-1800
for Domonial und Galaxy II	+49 (0) 7431 / 801-1810
for intrusion detection systems	+49 (0) 7431 / 801-1820
for AC	+49 (0) 7431 / 801-1830
for time recording	+49 (0) 7431 / 801-1840
for WINMAG	+49 (0) 7431 / 801-1850
and for escape route technology	+49 (0) 7431 / 801-1860
for Video	+49 (0) 7431 / 801-1870

Packaging/Shipping

Packaging and shipping costs are charged depending on the value of the goods. The larger the value of goods of an order, the lower the packaging and shipping costs.

Standard shipping fees

0.00 € to 1000.00 €	Shipping fee 3.0%
1001.00 € to 2500.00 €	Shipping fee 1.5%
2501.00 € to 5000.00 €	Shipping fee 0.5%
5001.00 € and more	free of charge to address of buyer

Partial deliveries are charged according to the value of goods, relative to the entire order.

Important shipping information

- The goods will always be shipped by the shipping type that is cheapest to us.
- Special express shipping types (such as UPS Express) will only be used at the special request of the customer. These special shipping costs at the cheapest house fee must be paid for by the customer (recipient).

Novar GmbH warranty

- The warranty period is 24 months from the date of delivery.
- Any claim under warranty must be proven by the customers by means of an invoice copy or the delivery note.
- The test or inspection stickers attached to the units or components are the basis of the claim under warranty. If they have been removed, any claims under warranty become void.
- Warranty is given for damage and defects in components which can be proven to have been caused by manufacturing errors.
- Please, send the defective parts along with the invoice copy or the delivery note and a description of the defect to our repair/return department (the address can be found under Processing of Repairs and Replacement Components).
- For components available as replacement components, a previous delivery of a replacement component is also possible as part of the warranty settlement.
- For components that cannot be repaired, for example those that have been damaged mechanically or by excess voltage, no replacement is possible under warranty. After consultation with the customer, they will be sent back or disposed of free of charge.
- For all other cases, our sales and delivery conditions shall apply.

Return of units

Units can be returned within the first 6 months from the date of delivery. We shall take back only goods in their original packaging. When returning goods, please always enclose the delivery note or an invoice copy.
We shall charge 15% of the purchase price.

Return of units

Units can be returned within the first 6 months from the date of delivery. We shall take back only goods in their original packaging. When returning goods, please always enclose the delivery note or an invoice copy.
We shall charge 15% of the purchase price. 7

Training offers

For assistance and further education, we offer an extensive training program.
Training will usually take place at decentralised sites near you.
In our training program, you will find information on the training contents, dates, training sites, prices and the organisational sequence.
The course fees also include daily meals. Travel expenses and, if required, costs for overnight stays must be paid by the training participant.

The current training program and any further information is available at phone +49 (0) 7431/801-1805 or as a download from the Internet.

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Terms and conditions

Except as agreed in writing, the following terms and conditions apply without exception to all sales by Novar GmbH, Johannes-Mauthe-Str. 14, 72458 Albstadt, Germany ("Novar") to Buyer.

1 SOLE TERMS

Novar's sale is expressly limited to the terms herein. Any additional or different terms or conditions on Buyer's purchase order or any other instrument, agreement or understanding are deemed to be material alterations and are rejected and not binding upon Novar. Novar's acceptance of Buyer's purchase order is expressly conditional upon Buyer's assent to the terms and conditions contained herein in their entirety. Buyer's acceptance of delivery from Novar constitutes Buyer's acceptance of these terms and conditions in their entirety.

2 QUOTE/PRICES

2.1 Information in any quotations and in attached drawings and illustrations about the goods, their measurements and weights are only approximate unless they are expressly stated as being binding.

2.2 Content and scope of the supply are determined exclusively on the basis of Novar's written quotation and order confirmation.

2.3 Novar's quotations are subject to change until accepted by Buyer. If an offer is stated as being binding, it shall be binding for 3 months from its date of issue.

2.4 Novar reserves the right to make technical changes to construction, form and material of goods – also during the delivery time – providing these changes are reasonably acceptable to Buyer. If the parties agree to changes to the goods or services to be supplied, Novar is entitled to claim additional costs with immediate effect and is not obliged to perform the contract until Buyer agrees to make such payments.

2.5 Buyer must request shipment of the entire quantity of goods ordered within 12 months from date of order; otherwise, Novar standard prices at time of shipment may, at Novar's option, apply to those quantities actually delivered, even if already invoiced.

2.6 Unless specifically agreed in writing, prices for goods do not include the cost of packaging, or services such as installation, start-up, commissioning or maintenance. If Novar has expressly agreed to ship goods, shipment costs will be as per the quote or, if none is mentioned, per the relevant catalogue.

2.7 All tooling, designs, drawings and other intellectual property produced or delivered hereunder are owned by Novar.

3 PAYMENT

3.1 Unless otherwise expressly agreed in writing, all payments are to be in EUROS and are due net in Novar's account within 30 days from date of invoice.

3.2 All bank charges in connection with any payment shall be paid by Buyer. Cheques and/or bills of exchange will only be accepted in payment's stead and in accordance with a special written agreement. They are deemed as payment only when they have been cashed in.

3.3 Novar at all times reserves the right to evaluate Buyer's credit standing and if Buyer fails to qualify for credit under Novar's criteria, Novar may modify or withdraw credit terms without notice and require guarantees, security or payment in advance for further deliveries of goods. If these are not provided within a reasonable period following a notice, Novar may rescind the contract and/or claim costs, losses or damages.

3.4 Invoices remaining unpaid after their due date will be subject to an interest charge of 8 percentage points above the respective base rate published by the German Federal Bank per year, unless Buyer is not responsible for the default. Buyer will pay all costs necessary for collection of unpaid amounts, including legal fees, unless Buyer is not responsible for the default.

4 DELIVERY, EXAMINATION, RETENTION OF TITLE, COOPERATION

4.1 All delivery dates are estimates unless agreed otherwise by Novar in writing.

If an order does not specify a preferred delivery date or if such information in respect of products is not clearly stated, Novar will stipulate the earliest reasonably practicable date for delivery depending on lead times for the product. If an order is placed after Novar's close of business on a working day, the time period for delivery will be calculated from the next working day.

In case of a conflict between order and order confirmation of Novar, the order confirmation prevails.

4.2 Novar may make deliveries under any order in one or more shipments, to the extent that this is reasonably acceptable to Buyer, and may issue separate invoices.

4.3 Any fixed dates for deliveries agreed in writing are conditional upon the timely provision of all documents by Buyer, any required authorisations and approvals, in particular of plans, and the provision of all necessary information. If these requirements are not fulfilled in a timely manner, the fixed dates will be extended accordingly. This does not apply if Novar is responsible for the delay.

4.4 Novar may demand an appropriate extension of the delivery date in the event of subsequent changes agreed.

4.5 Delivery terms for goods are EX Works (Incoterms 2000) Novar with all risk of loss or damage to goods passing to Buyer upon delivery to carrier.

4.6 Buyer must inspect all goods upon delivery without undue delay and must report:

a) obvious defects, transport damages, discrepancies and shortages without undue delay, and in no event later than 10 days after delivery,

b) hidden defects without undue delay, and in no event later than 10 days after detection in writing to Novar. Otherwise all goods will be deemed delivered and accepted, unless Novar fraudulently neglected to disclose such faults. Buyer will return to Novar any goods that are rejected at his own expense. In the event Buyer refuses to accept delivery, Buyer shall be liable for increased costs incurred by Novar in accordance with section 7 (c).

4.7 Novar shall retain title of all goods delivered by Novar until payment has been made in full. In the event Buyer has credit with Novar, retention of title shall serve as security for any balance due to Novar.

4.8 Until title of the goods is transferred to Buyer, Buyer shall treat the goods with care; in particular it shall insure them sufficiently against fire, water and theft at reinstatement value at its own cost.

4.9 In the event of seizure or any other measure taken by third parties in relation to the goods, Buyer shall notify Novar in writing without undue delay so that Novar can initiate legal proceedings pursuant to § 771 of the German Code of Civil Procedure in order to prevent execution of any court order. If the third party is unable to reimburse the costs incurred in court or out of court of a claim pursuant to § 771 of the German Code of Civil Procedure, Buyer is liable for the damages incurred hereby.

4.10 Any processing of or alteration to the goods carried out by Buyer shall always be carried out for Novar. If the goods are processed with other items that do not belong to Novar, Novar shall acquire co-ownership of the new item in the ratio of the value of the object delivered to the other processed items at the time of processing.

4.11 If the goods are irreversibly mixed with other items that do not belong to Novar, Novar shall acquire co-ownership of the new item in the ratio of the value of the object delivered to the other mixed items at the time of mixing. If the mixing process takes place in such a way that Buyer's item must be regarded as the principal item, the parties shall be deemed to have agreed that Buyer shall transfer shared title to Novar pro rata.

4.12 Should Buyer sell the goods delivered – whether processed or not – in due course of business, it hereby assigns any claims from selling the goods with all ancillary rights vis-à-vis its customer to Novar.

4.13 On good cause Buyer is obliged, if requested by Novar, to inform Novar of any assignment to a third-party purchaser and to give Novar all information required for the assertion of its rights and to hand over any documents.

4.14 Should the realisable value of Novar's security exceed the debt claim to be secured by more than 10%, Novar shall release part of the security – at its discretion – at the request of Buyer.

4.15 Buyer shall make available in time all equipment and grant access to all facilities which Novar may require to perform any services.

5 TAXES

The amount of any and all applicable taxes will be added to the price and paid by Buyer, unless Buyer has provided Novar with exemption certificates acceptable to the taxing authorities.

6 FORCE MAJEURE, DELAY

6.1 Novar is not liable for any delay in production or delivery of goods if due to a force majeure event, which includes, among other things, shortages of or inability to obtain materials or components, or refusals to grant an export license or the suspension or revocation thereof, or any other acts of any government that would limit Novar's ability to perform, fire, earthquakes, floods, severe weather conditions, or any other acts of God, quarantines, epidemics, pandemics, or other regional medical crises, labour strikes or lockouts, riots, strife, insurrection, civil disobedience, armed conflict, terrorism or war (or imminent threat of same), or any other cause whatsoever beyond Novar's reasonable control.

6.2 If the force majeure event continues for longer than 90 days, either party may terminate Buyer's purchase order. If Buyer terminates the order, Buyer will pay Novar for work performed prior to termination and all reasonable expenses incurred by Novar prior to termination. In the event of delays in delivery or performance caused by force majeure or Buyer, the date of delivery or performance shall be extended by the period of time Novar is actually delayed or as mutually agreed. Any claims for damages, costs or losses howsoever construed shall be excluded.

6.3 If, for reasons other than the foregoing, Novar should default or delay or not deliver goods, Buyer's sole remedy against Novar is an option to cancel Buyer's purchase order through prior written notice to Novar. In as far as Buyer incurs damages due to a delivery delay, Novar's liability is limited to 0.5% of the order value of the delayed delivery per week up to a maximum amount of 5% of the order value of the delayed delivery. Buyer is only entitled to claim damages in lieu of performance in accordance with section 11 (limitation of liability).

7 TERMINATION, RETURN OF GOODS

7.1 Buyer may not terminate or cancel a purchase order without Novar's prior written consent. Goods scheduled for shipment within 30 days cannot be rescheduled. Goods scheduled for shipment between 30 and 60 days may be rescheduled with Novar's prior written consent and if rescheduled beyond 60 days that quantity may not be further rescheduled. Buyer is nonetheless liable for termination charges, which may include:

a) a price adjustment based on the quantity of goods delivered,

b) all costs, direct and indirect, incurred and committed for Buyer's terminated purchase order,

c) the full cost of all unique materials required for custom goods, and

d) a pro-rata compensation covering the prorated expenses and anticipated profits consistent with industry standards.

7.2 Novar may terminate Buyer's purchase order in whole or in part upon Buyer's breach of these terms and conditions or Buyer's bankruptcy, insolvency, dissolution or receivership proceedings without any further liability.

7.3 Returns of goods are only accepted in their original packed and sealed condition within 6 months after shipment. Software, customised products and products in opened packaging, lacquered und non-reusable parts cannot be returned. Goods can only be returned with an authorisation number (RMA) obtained from Novar in advance of shipment to Novar. The RMA is specific to the relevant goods and quantity. Novar reserves the right to:

a) reject any return of other goods than specific to the RMA, or

b) charge an additional €25 per return. In case of accepted returns, the purchase price shall be repaid with a deduction of up to 20% for processing, testing, administration and other overheads. The minimum charge for returns is €25 per invoice. This does not affect the Purchaser's rights under the product warranty. If the Purchaser withdraws from the Contract and is not entitled to do so, or if the Purchaser refuses to accept the delivery and is unjustified in doing so, the Seller is entitled to 15% of the agreed price as liquidated damages, unless the Purchaser proves that the Seller has not suffered any damage or to a lesser extent. Reserves the right to claim further damages.

8 INFRINGEMENT INDEMNIFICATION

8.1 Novar agrees to:

a) defend or settle any claim, suit or proceeding brought against Buyer based solely upon a claim that any goods manufactured and provided solely by Novar hereunder directly infringe any third-party German patent, copyright or mask work rights, and

b) pay costs and damages finally awarded to the third party, provided that: (A) Novar is notified promptly in writing of such claim, (B) Novar is provided sole control of such defence or settlement using counsel of Novar's choice, and (C) Buyer provides Novar with all available information and assistance. Because Novar has exclusive control over resolving infringement claims hereunder, in no event will Novar be liable for Buyer's legal fees, if any.

8.2 Novar shall not be responsible for any settlement or compromise of any such third-party claim made without Novar's written consent. Novar has no obligation and this Section 8 will not apply to any claim of infringement of any intellectual property right of a third party in the case of:

a) goods not in Novar's catalogue or goods developed pursuant to Buyer's direction, design, process, or specification,

b) the combination of any goods with other elements if such infringement could have been avoided but for such combination,

c) goods that have been modified if such infringement would have been avoided by the unmodified goods,

d) goods not used for their ordinary purpose, or

e) software if such software is other than the latest version of the software released by Novar and provided to Buyer. Buyer agrees to defend, indemnify and hold harmless Novar from and against any claims, suits or proceedings whatsoever arising from such exclusions identified in this Section 8 (b), unless this is not caused by Buyer's failure.

8.3 At any time after a claim has been made or Novar believes is likely to be made, or a court of competent jurisdiction enters an injunction from which no appeal can be taken, Novar has at its option the discretion to:

a) procure for Buyer the right to continue using such goods,

b) replace or modify such goods in a way that it does not further infringe any third-party intellectual property rights and without affecting the functionality of said goods. In the event Novar fails to do so within a reasonable time limit to be set by Buyer, Novar shall accept the return of such goods and refund the purchase price less 20% annual depreciation from shipment date.

8.4 The foregoing states Buyer's exclusive remedy for any actual or alleged infringement of intellectual property rights. Buyer is only entitled to claim damages subject to section 11 (limitation of liability).

9 SOFTWARE

9.1 The use of software, if provided separately or installed on a good supplied, is governed by the following terms unless a software license agreement is included with such software.

9.2 Subject to Buyer's compliance with these terms and conditions, Novar grants to Buyer a personal, limited, non-exclusive license to use the object code of the software solely for Buyer's internal purposes. The license is limited to such kind of goods as are specified on Buyer's purchase order, quotation or acknowledgement. No other use is permitted.

9.3 Novar retains for itself (or, if applicable, its suppliers) all title and ownership to any software delivered hereunder, all of which contains confidential and proprietary information and which ownership includes, without limitation, all rights in patents, copyrights, trademarks and trade secrets.

9.4 Buyer shall not attempt any transfer without prior written consent of Novar, sublicense or redistribution of the software except as expressly permitted herein. Buyer is entitled to copy the software in as far as necessary for the contractual purpose. Buyer is entitled to make back-up copies in as far as necessary. Furthermore, Buyer shall not disclose, distribute or display any such software, or otherwise make it available to others (except as Novar authorises in writing) or allow any unauthorised use of the software. Buyer is only entitled to reverse compile the software within the scope of § 69e UrhG. Buyer is only entitled to modify, upgrade or alter the software in any other way within the scope of § 69c UrhG (German copyright law).

9.5 Novar may terminate this license if Buyer breaches fundamental provisions under these terms and conditions. If the software is delivered with a good, Buyer may only transfer its license of the software to a third party in conjunction with the sale by Buyer of the good on which the software is installed.

9.6 Customised software will be based on the current version of software, unless agreed otherwise. Customised software is generally excluded from support and updates by Novar unless otherwise agreed in writing by Novar.

10 WARRANTY

10.1 To the extent permitted by law, Novar shall only be liable in accordance with the following warranty conditions, which replace any other warranties or guarantees. Any other claim shall be excluded. In particular (unless otherwise agreed in writing) Novar does not warrant the fitness of the product for any specific use which would not be the use for which the product was designed by its manufacturer.

10.2 Except as otherwise expressly provided herein, Novar warrants goods in all material respects to be free of defective materials and faulty workmanship and as conforming to applicable specifications and/or drawings. Unless otherwise agreed in writing commencing with Novar's date of shipment, the warranty period shall run for 24 months. Warranty for spare parts is limited to 12 months from delivery.

10.3 Non-complying goods returned to Novar in accordance with Section 4 (f) will be repaired or replaced at Novar's option, and return-shipped lowest cost, transportation prepaid. The costs of transportation to Novar have to be borne by Buyer. In the event Novar fails to repair or replace the non-complying good within a reasonable time limit set by Buyer, Novar shall accept the return of such goods and refund the purchase price less 20% annual depreciation from shipment date. The foregoing states Buyer's exclusive remedy in case of defects. Buyer is only entitled to claim damages subject to section 11 (limitation of liability).

10.4 If so requested by Novar, Buyer shall give Novar sufficient opportunity to verify any fault, in particular to provide faulty goods and their packaging to Novar for inspection. If Buyer refuses, Novar shall not be liable for such defects. No goods will be accepted for return without an authorisation number obtained in advance of shipment to Novar.

10.5 Goods subject to wear and tear or burnout through usage shall not be deemed defective because of such wear and tear or burnout. No warranty shall apply if the defect or damage was caused by or related to installation, combination with other parts and/or products, modification to or repair of any goods other than by Novar, or resulted from Buyer's acts, omissions, misuse or negligence.

10.6 Repaired or replaced goods shall be warranted for the remainder of the unused warranty term or for 90 days from shipment, whichever is longer.

10.7 It is Buyer's responsibility to ensure that the goods are fit for the application in which they are used.

10.8 Software, if supplied separately or installed on goods supplied and warranted by Novar, will be furnished on a medium that is free of defect in materials or workmanship under normal use for as long as the hardware and/or system is under warranty. During this period, Buyer has the rights listed in section 10 (c) with regard to any defects of the software. Unless stipulated otherwise in a separate software license agreement, no further warranty is given in respect of software.

10.9 If Novar provides any services to Buyer, including but not limited to training or assistance with configuration and installation of the goods, Novar shall provide such services in accordance with normal industry practice at such rates as may be specified by Novar in its price list. In case of non-conformance which Novar has been notified of correctly and promptly, Novar will repeat services and/or correct accordingly. To the extent permitted by law, Novar accepts no liability to Buyer arising out of the provision of such services.

10.10 Novar does not represent or warrant that the goods may not be compromised or circumvented or that the goods will prevent any personal injury or property loss, burglary, robbery, fire or otherwise, or that the goods will in all cases provide adequate warning or protection. Buyer understands that a properly installed and maintained alarm may only reduce the risk of burglary, robbery, fire or other events occurring without providing an alarm, but it is not an insurance or guarantee that such will not occur or that there will be no personal injury or property loss as a result.

10.11 These warranties are for the benefit of Buyer only and are not assignable or transferable.

11 LIMITATION OF LIABILITY

11.1 Novar is liable for intent and gross negligence on its part, on the part of its legal representatives and vicarious agents. If Novar has not acted intentionally, Novar's liability is restricted to typical, foreseeable damage.

11.2 Novar shall also be liable in the event of negligent injury to life, body and health caused by Novar, its legal representatives or vicarious agents and in the event of wilful failure to disclose a defect. Where a guarantee is provided by Novar, then the extent of Novar's liability is to be determined pursuant to the guarantee declaration.

11.3 Novar shall also be liable for the negligent failure to comply with any of its obligations that are fundamental to the purpose of the agreement. If Novar has not acted intentionally, Novar's liability is restricted to typical, foreseeable damage.

11.4 Additionally Novar shall be liable in cases of mandatory statutory liability, for example pursuant to the Product Liability Act.

11.5 Buyer shall indemnify Novar against any claims, damages, losses, costs and expenses incurred by Novar as a result of either claims made against Novar by third parties arising out of the combination or use of the goods with any incompatible ancillary products that may be connected to the goods, or any other matter for which Novar would not be liable to Buyer under these terms and conditions.

11.6 Other than stated herein, any liability of Novar is excluded, regardless of the theory of liability, whether based in contract, tort, indemnity or otherwise.

11.7 Buyer shall notify and consult with Novar without undue delay and comprehensively if it intends to take legal recourse in accordance with the aforementioned provision. Buyer has to allow Novar to investigate and examine the damages.

12 RECOMMENDATIONS

Any recommendations or assistance provided by Novar concerning the use, design, application or operation of the goods shall not be construed as representations or warranties of any kind, express or implied, and such information is accepted by Buyer at Buyer's own risk and without any obligation or liability to Novar. It is Buyer's sole responsibility to determine the suitability of the goods for use in Buyer's application(s). Other than in cases of statutory obligations the failure by Novar to make recommendations or provide assistance shall not give rise to any liability to Novar.

13 LAWS

13.1 Buyer will comply with all applicable laws, regulations and ordinances of any governmental authority in any country having proper jurisdiction, including, without limitation, those laws of the United States or other countries that regulate the import or export of the goods provided by Novar, and shall obtain all necessary import/export licenses in connection with any subsequent import, export, re-export, transfer and use of all goods, technology and software purchased, licensed and received from Novar. Unless otherwise mutually agreed in writing, Buyer agrees that it will not use or permit third parties to use the goods in connection with any activity involving nuclear fission or fusion, any use or handling of any nuclear material, or any nuclear, chemical or biological weapons.

13.2 Goods and services delivered by Novar hereunder will be produced and supplied in compliance with all applicable laws and regulations in the Federal Republic of Germany. Buyer confirms that it will ensure that all goods are properly installed and used in accordance with the applicable safety at work laws and regulations, and Buyer will indemnify Novar in respect of any costs, claims, actions or liability arising out of that act, or otherwise arising out of the supply by Buyer or use by others of the goods, unless this is not caused by Buyer's failure.

14 PRECLUSION AGAINST SET-OFF

Buyer is only entitled to set off any amount against any amount due or to become due from Novar to Buyer or its affiliates that is undisputed or final and absolute.

15 WEEE

15.1 Prices do not include the costs of recycling goods covered by the European WEEE Directive 2002/96/EC and such costs may be added to the prices quoted.

15.2 Unless a charge has been made as per section 15 (a) above, if the provisions of the WEEE Directive 2002/96/EC as implemented in any local jurisdiction apply to goods, the financing and organisation of the disposal of waste electrical and electronic equipment are, with the exception of goods which are B2C as per Novar catalogue, the responsibility of the Buyer who herewith accepts this responsibility, and Buyer will indemnify Novar in respect of all such liabilities. Buyer will handle the collection, processing and recycling of the goods in accordance with all applicable laws and regulations, and shall pass on this obligation to the final user of the goods. Failure by the Buyer to comply with these obligations may lead to the application of criminal sanctions in accordance with local laws and regulations.

16 APPLICABLE LAW

These terms and conditions are subject to the Laws of the Federal Republic of Germany. These terms and conditions are excluded from the United Nations Convention on Contracts for the International Sale of Goods, 1980, and any successor thereto. The competent court at the seat of Novar will have exclusive jurisdiction to adjudicate any dispute related to these terms and conditions.

17 INDEMNIFICATION

Buyer shall indemnify Novar for all costs and damages, including legal fees, suffered by Novar as a result of Buyer's culpable actual or threatened breach of these terms and conditions.

18 MISCELLANEOUS

18.1 The parties may exchange confidential information during the performance or fulfilment of any supply. All confidential information shall remain the property of the disclosing party and shall be kept confidential by the receiving party for a period of 10 years following the date of disclosure. These obligations shall not apply to information which is:

a) publicly known at the time of disclosure or becomes publicly known through no fault of recipient,

b) known to recipient at the time of disclosure through no wrongful act of recipient,

c) received by recipient from a third party without restrictions similar to those in this section, or

d) independently developed by recipient. Each party shall retain ownership of its confidential information, including without limitation all rights in patents, copyrights, trademarks and trade secrets. A recipient of confidential information may not disclose such confidential information without the prior written consent of the disclosing party, provided that Novar may disclose confidential information to its affiliated companies in the sense of §§15ff AktG (company law), and its and their employees, officers, consultants, agents and contractors.

18.2 These terms and conditions (including those agreed separately in writing) constitute the entire agreement of Novar and Buyer, superseding all prior agreements or understandings, written or oral, and cannot be amended except by a mutually executed writing.

18.3 Buyer may not assign any rights or duties hereunder without Novar's written prior consent. Novar may subcontract its obligations hereunder without Buyer's consent. No representation, warranty, course of dealing or trade usage not contained or expressly set forth herein will be binding on Novar.

18.4 Headings and captions are for convenience of reference only and do not alter the meaning or interpretation of these terms and conditions.

18.5 No failure by Novar to enforce at any time for any period the provisions hereof shall be construed as a waiver of such provision or of the right of Novar to enforce thereafter each and every provision.

18.6 In the event that any provision herein is determined to be illegal, invalid or unenforceable, the validity and enforceability of the remaining provisions shall not be affected and, in lieu of such provision, a provision as similar in terms as may be legal, valid and enforceable shall be added hereto.

18.7 Provisions herein which by their very nature are intended to survive termination, cancellation or completion of supply shall survive such termination, cancellation, or completion.

18.8 All stenographic and clerical errors are subject to correction.

18.9 These terms and conditions shall confer no benefit on any third party.

19 LANGUAGE

The German language version of these terms and conditions will prevail in case of conflict with any translations provided for convenience purposes.

July 2010

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