

## MB wireless system

### Intrusion Detection Technology BUS-2 user



The innovative wireless system offers a wide range of opportunities for protecting human life and property values. The system combines wireless technology in connection with leaded components, 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 central unit.

The wireless system can be integrated into the following intrusion panels: MB-Secure, MB 12, 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 wireless panel is required.

This innovative RF BUS-2 wireless receiver uses a bidirectional wireless 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 wireless system, the wireless modules 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 wireless system is done comfortably via a PC/laptop using the parameterisation software WINFEM Advanced respectively IQ PanelControl.

### Performance Features

- **Advanced wireless transmission technology**
- **2 wireless bands: 433MHz / 868MHz**
- **A total of 24 radio channels distributed over 2 wireless bands**
- **Wireless radio system on integrated BUS-2 basis**
- **Each wireless module has a unique address**
- **Radio polling to all bidirectional wireless module**
- **Permanent monitoring of the availability of the wireless transmission path**
- **Intelligent external signal monitoring for detecting wireless signals that do not belong to the system**
- **Function monitoring of all wireless modules assigned to the system**
- **Tamper monitoring of all wireless modules**
- **Radio revision mode for determining the installation range**
- **Connection to panels via BUS-2 (MB-Secure, 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 or IQ PanelControl programming software**
- **VdS approval class B**

In existing buildings, the request for more security later on can often only be achieved by extensive reconstruction. An existing wired intrusion detection system can be extended by the wireless system without problems and without any high installation expenditure at any time - during reconstruction, renovations or extensions.

The same is true of rooms with precious wall coverings, for example historic interior panelling, plaster, valuable textile wall paper. If, for example, half-timbered houses or objects protected as listed buildings are to be secured, the advantages of this wireless system are obvious. Securing remote rooms, for example a summer house at some distance, a garage that is not directly adjacent to a building, or a studio apartment distributed over several floors can be done comfortably and without any great installation expenditure.

When modernize and, for example, exchanging already existing older security systems, this innovative wireless system once again has a clear advantage by virtue of combining conventional installation and wireless technology. An existing installation can still be used and expanded by incorporating wireless modules.

This modular extension has the advantage that the security system can be optimally adapted to the object circumstances. This also facilitates a later system extension.

The new developed **RF magnetic contact (Item no. 015640/42/44)** sets standards in functionality and flexibility. The RF magnetic contact can be used as an universal monitoring contact to monitor opening and locking of windows, doors, gates and for example doors within rolling doors. Besides this, the contact is suitable to monitoring cupboards and drawers or even possible as picture detector.

The RF magnet contact is supplied without magnets. Depending on the required use for the specific property, magnets can be obtained as accessories in a housing and with so-called spacer kits for height adjustment. The integrated connection terminals can be used to connect two contacts using Z-wiring. The RF magnet contact has a total of 4 inputs, which are to be programmed as part of control panel programming. Each one of the contact inputs is monitored separately and transmitted to the control panel, thus allows a individual identification of each surveillance.

The **RF 4I/O wireless module (Item no. 015601.01)** not only allows conventionally wired detectors to be integrated into the wireless system, but also extensive control and alarm functions for the object circumstances to be implemented via the optionally used relay cards (Item no. 015602). Alternatively the RF 4I/O wireless module can be operated with batteries or a power supply unit.

The **Viewguard PIR RF (Item no. 015610.01)** is a wireless PIR motion detector that works by the passive infrared principle. For continuous detection, the detector is equipped with a high-quality mirror optics. The standard model is 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 mirror optics.

Due to its small dimensions, the **RF Panic Button (Item no. 015630)** can always easily be carried along. 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.

The **RF Smoke Detector Base (Item no. 015620.01)** enables the wireless connection of automatic fire detectors of the IQ8Quad series. So fire detection and corresponding signalling is possible with a intruder alarm control panel.

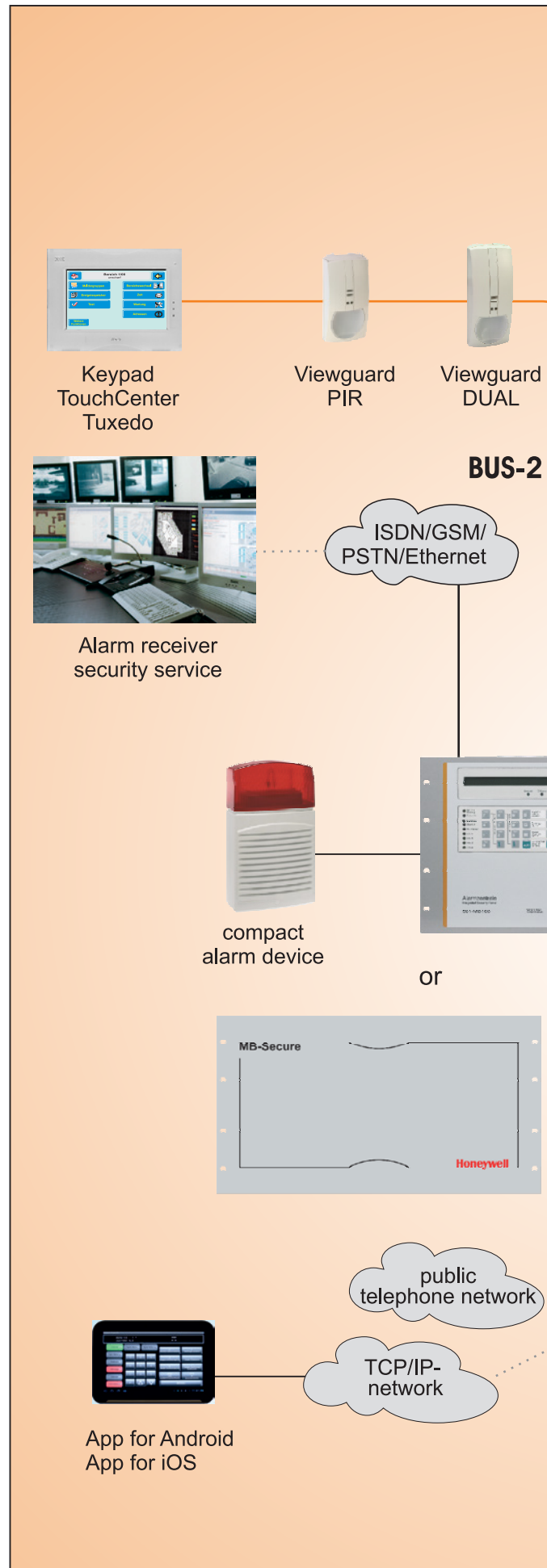
Such a system configuration is particularly suited for locations where despite no fire detection system being required by building laws the use of such technology to protect people and property is desirable. This might be the case in homes, professional offices or smaller commercial operations.

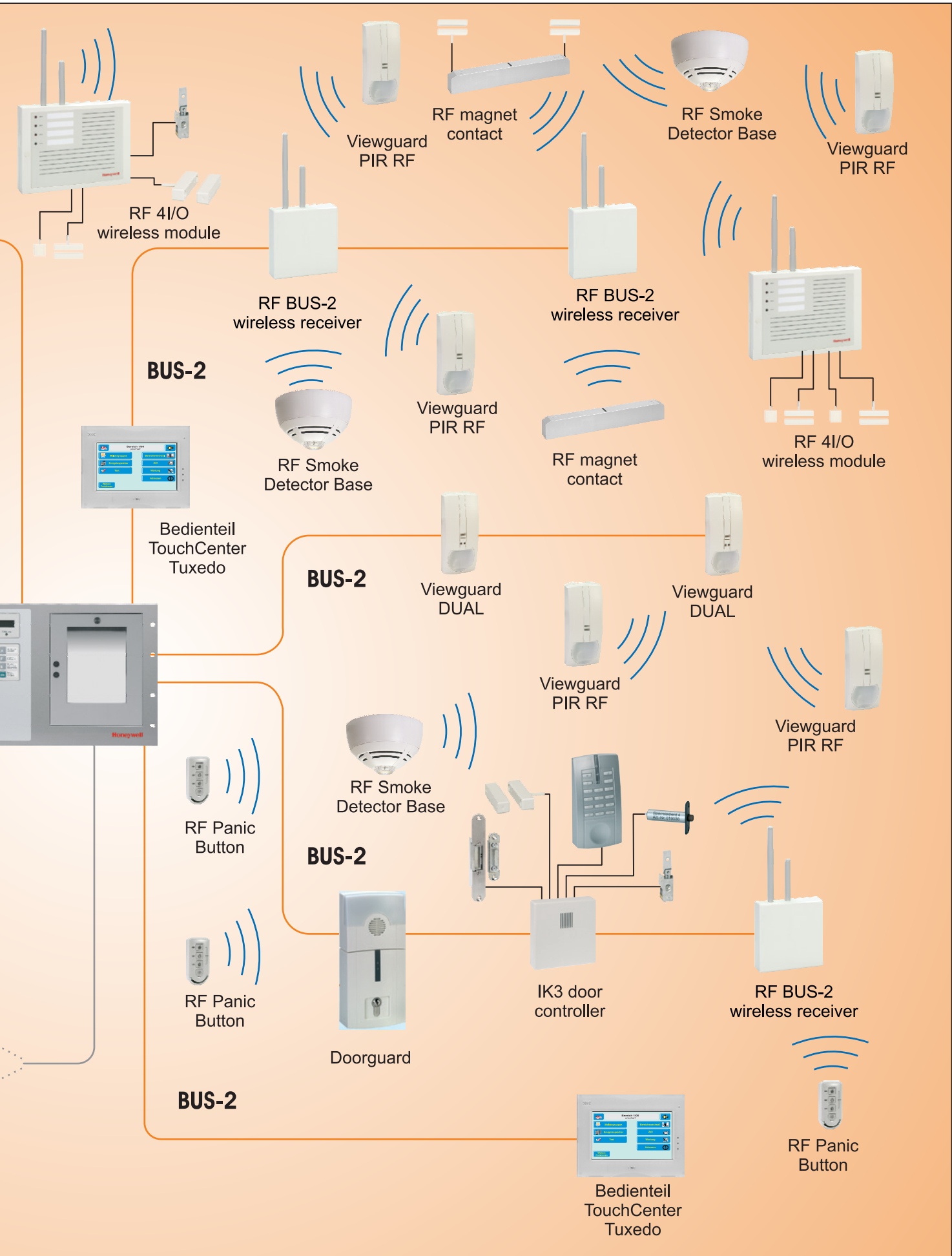
The earlier residential fires are detected, the better they can be fought and the lower the risk to the persons involved. Fire alarms are indispensable for early fire detection.

The combination of a base and fire alarm detector enables the equipment to be selected and used appropriately for the specific fire danger characteristics of the location.



The illustration shows the base and fire detector.  
(Fire detector not included)







015600.01

**Technical Data MB wireless system**

Frequency bands	433 MHz / 868 MHz
Range (wireless)	typ. 300 m with unrestricted view
Environmental class according to VdS	II
Operating temperature range	-10 °C to +55 °C
Storage temperature range	
- Device without batteries	-25 °C to +70 °C
- Device with batteries	25 °C +/- 10 °C
Colour	traffic white (similar to RAL 9016)

**Technical Data 015600.01 RF BUS-2 wireless receiver**

Operating voltage U <sub>b</sub>	12 V DC (power supply via BUS-2)
Current consumption	typ. 15 mA
Type of protection according to EN 60529	IP 30
Dimensions (W x H x D)	118 x 118 x 31 mm without antennae
Antennae (L)	75 mm and 135 mm



015601.01

**Technical Data 015601.01 RF 4I/O wireless module**

Power supply	2 battery packs, alternatively external power supply unit
Operating voltage range	10 V DC to 15 V DC
Current consumption at rest	10 mA (with external power supply unit)
Battery life	typ. 3.5 years*
Type of protection according to EN 60529	IP 30
Dimensions (W x H x D)	200 x 144 x 39 mm without antennae
Antennae (L)	75 mm and 135 mm

\*The battery life depends on the application for example the number of detector actuations or by increased current consumption (e.g. LED, relays or buzzer).



015610.01

**Technical Data 015610.01 Viewguard PIR RF**

Power supply	1 battery pack
Battery life	typ. 2.5 years*
Range (programmable)	
- Surface optics	8 / 11 / 13 / 15 m
- Route optics (Item no. 033435)	29 / 35 / 42 / 50 m
- Curtain optics (Item no. 033434)	17 / 21 / 25 / 30 m
PIR sensor	temperature-compensated
PIR sensitivity (programmable)	normal / high
Installation position	vertical, optics at the bottom
Type of protection according to EN 60529	IP 30
Dimensions (W x H x D)	64 x 158 x 48 mm

\*The life of the batteries may become shortened by frequent actuations of the LED.



015620.01

**Technical Data 015620.01 RF Smoke Detector Base**

Power supply	4 batteries each 3,6 V (Lithium)
Battery life	typ. 3.5 to 4.5 years
Protection class as per EN 60529	IP 42 (with detector head)
Dimensions Ø x H	135 x 88 mm (with detector)



015630

### Technical Data 015630 RF Panic Button

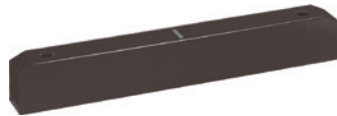
Power supply	Button cell, type CR2032
Battery life	typ. 2 years
Range (wireless)	typ. 150 m with unrestricted view
Storage temperature range	-20 °C to +70 °C
Protection class as per DIN 40 050	IP 40
Dimensions (W x H x D)	37 x 75 x 15 mm



015640

### Technical Data 015640/015642/015644 RF magnet contact

Power supply	1 battery pack
Battery life	typ. 2,8 years*
Installation position	any position
Protection class as per EN 60 529	IP 30
Dimensions (W x H x D)	220 x 24 x 33 mm
Colour	traffic white (similar to RAL 9016) brown (similar to RAL 8017) contact grey (similar to RAL 7012)



015642



015644

\*Battery lifetime depends on actuations per day:  
typ. 2,7 years with 1000 actuations per day  
typ. 2,5 years with 1000 actuations per day with connection of external contacts.



082404

### Accessories RF magnet contact

082404	Magnet in surface mounted housing, traffic white incl. 1 spacer-kit and mounting material Dimensions (W x H x D) 55 x 14 x 13 mm Height of spacer 1 x 10 mm, 1 x 5 mm, 1 x 2 mm
082405	Magnet in s.m. housing and spacer-kits, traffic white incl. 3 spacer-kits and mounting material Dimensions (W x H x D) 55 x 14 x 13 mm Height of spacer 1 x 10 mm, 1 x 5 mm, 1 x 2 mm
082414	Magnet in surface mounted housing, brown incl. 1 spacer-kit and mounting material Dimensions (W x H x D) 55 x 14 x 13 mm Height of spacer 1 x 10 mm, 1 x 5 mm, 1 x 2 mm
082415	Magnet in s.m. housing and spacer-kits, brown incl. 3 spacer-kits and mounting material Dimensions (W x H x D) 55 x 14 x 13 mm Height of spacer 1 x 10 mm, 1 x 5 mm, 1 x 2 mm
082424	Magnet in surface mounted housing, contact grey incl. 1 spacer-kit and mounting material Dimensions (W x H x D) 55 x 14 x 13 mm Height of spacer 1 x 10 mm, 1 x 5 mm, 1 x 2 mm
082425	Magnet in s.m. housing and spacer-kits, contact grey incl. 3 spacer-kits and mounting material Dimensions (W x H x D) 55 x 14 x 13 mm Height of spacer 1 x 10 mm, 1 x 5 mm, 1 x 2 mm

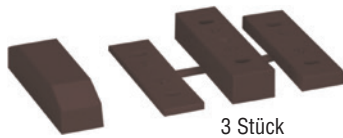


082405

3 Stück

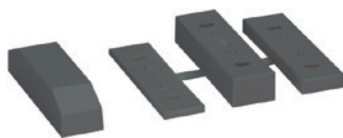


082414

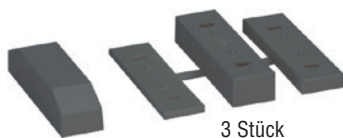


082415

3 Stück



082424



082425

3 Stück

## Detection range Viewguard PIR RF, wireless PIR motion detector

Area optics with sneak-by guard (state of delivery)

Depending on the detector application, the mirror optics can be exchanged on site. Mirror sets for route or curtain optics are available for this purpose.

### Mounting height:

Recommended: 2.5 m for optimal operating sensitivity.

Permitted: 2.2 m to 3.4 m

### Optics:

Lens splitting: 22 zones at 5 levels

Opening angle: 80° hor., 64° vert.

Range: 8 / 11 / 13 / 15 m

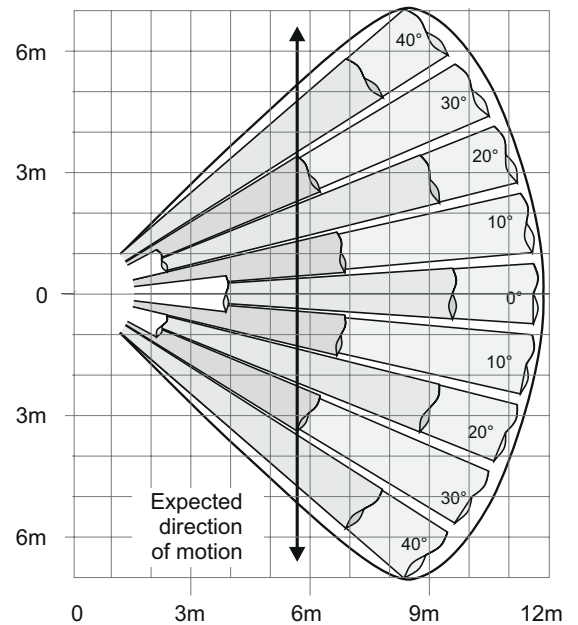
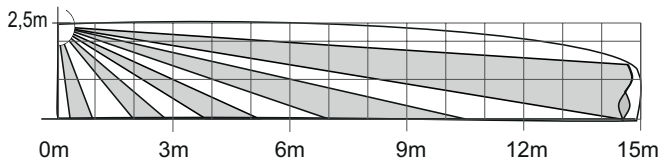
### Detection diagrams:

The following diagrams refer to a range setting of 15 m.

#### Mounting height 2.5 m (2.20 to 3.00 m)

##### Vertical detection coverage

Vertical inclination 0°



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.

### Curtain optics

#### 033434 Viewguard PIR mirror, Curtain optics (PU = 3 piece)

The curtain mirror is suitable for monitoring possible intrusion locations.

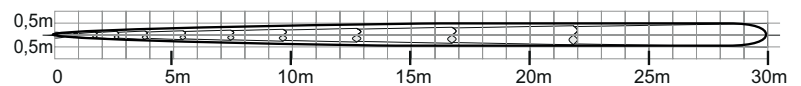
mirror distribution 11 zones on 11 levels  
 acceptance angle 7.5° hor., 85° vert.  
 range 17 / 21 / 25 / 30 m

### Mounting height:

- Recommended: 2.50 m

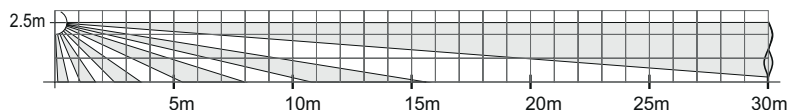
- Permitted: 2.20 m to 3.00 m

##### Horizontal detection coverage



##### Vertical detection coverage. Mounting height 2.50 m

Vertical inclination 0°



### Long-range optics

#### 033435 Viewguard PIR mirror, Long-range optics (PU = 3 piece)

The long-range mirror is suitable for monitoring corridors.

mirror distribution 8 zones on 6 levels  
 acceptance angle 30° hor., 78° vert.  
 range 29 / 35 / 42 / 50 m

### Mounting height:

- Recommended: 2.50 m

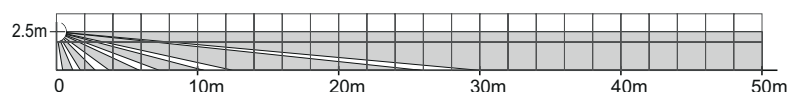
- Permitted: 2.20 m to 3.00 m

##### Horizontal detection coverage



##### Vertical detection coverage. Mounting height 2.50 m.

Vertical inclination 0°



## Accessories for Viewguard PIR RF, wireless motion detector

033434 Viewguard PIR set of mirrors, curtain optics (3 per packaging unit)

033435 Viewguard PIR set of mirrors, route optics (3 per packaging unit)

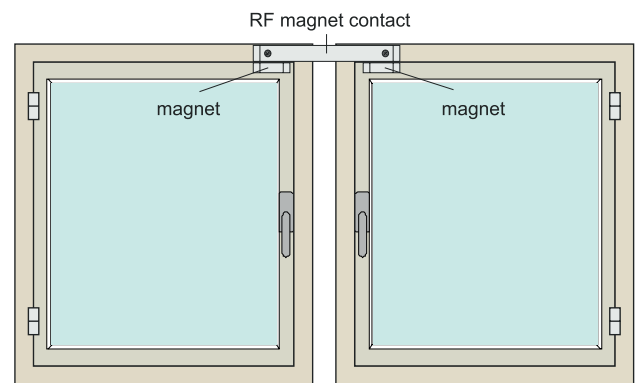
033390.17 Adjusting hinge, horizontal  $\pm 20^\circ$ , vertical  $+4^\circ$  to  $-8^\circ$

033588.17 Ball joint set for wall and corner mounting

033391.17 Seal, (20 per packaging unit)

## Options for installation location of the RF magnet contact

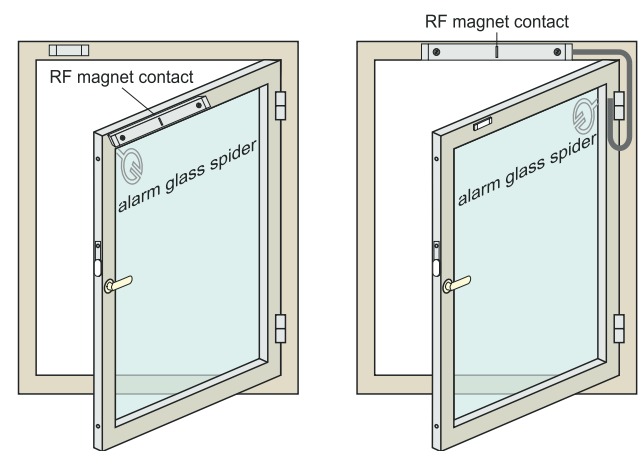
The RF magnet contact is characterised by its high degree of flexibility. The contact can be mounted above or at the side of the window or door frame to be monitored.



The example shows how double-wing windows are monitored.

An installation on the window wing for integrating an alarm glass window with alarm glass spider.

Magnets in housing and spacer kits are available in various heights to align frame and wing heights.



Thanks to the two additional inputs for external contacts the range of applications is extended.

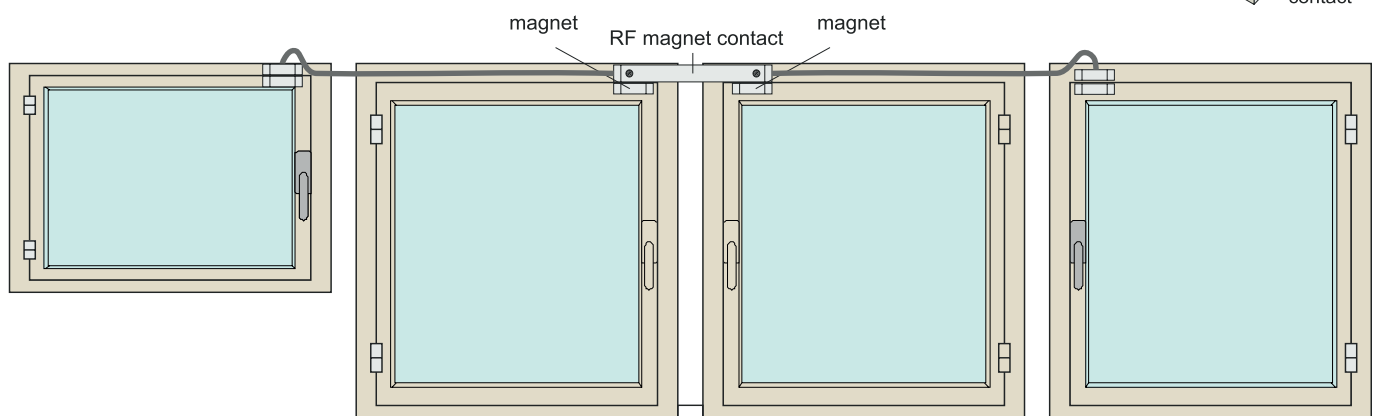
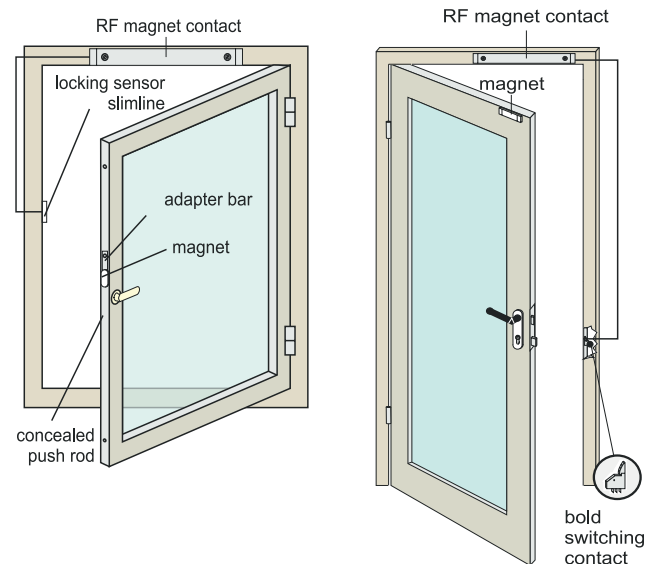
So it is possible to monitor 4 windows with only one RF magnet contact.

The slimline lock sensor with a magnetic contact here serves two purposes at once:











- It detects whether windows and doors are locked with multiple locking and concealed push rods.
- It monitors opening.

**Note:**

Installations compliant with VdS standards can only have external potential-free contacts connected with Z-wiring. The RF magnetic contact should not be installed within the inside area that can be reached from outside the window or door to be monitored.



## Ordering information

Item no.	Description
015600.01	RF BUS-2 wireless receiver  approval G108504 (EMT), class B
015601.01	RF 4I/O wireless module  approval G108505 (EMT), class B (Delivery excluding lithium batteries, 2 pieces required 015605)
015610.01	Viewguard PIR RF, wireless motion detector  approval G108506 (EMT), class B G108507 (EMT), class B, longe-range optics G108508 (EMT), class B, curtain optics (Delivery excluding lithium battery, 1 pieces required 015605)
<u>Accessoires for RF 4I/O wireless module and Viewguard PIR RF</u>	
015602	Relay card, 1 output, for RF 4I/O wireless module (max. 4 integrable)
015605	Lithium battery with connecting cable for RF 4I/O wireless module and Viewguard PIR RF
015620.01	RF Smoke Detector Base  Battery pack 015625 included  Fire detector not included
<u>Accessoires for RF Smoke Detector Base</u>	
015625	Battery pack lithium 3,6 V for RF Smoke Detector Base
<u>Fire detectors for RF Smoke Detector Base</u>	
	 approval technical detector (Detector base + fire detector)
802171	IQ8Quad fixed heat detector (G109510)
802271	IQ8Quad rate-of-rise heat detector (G109511)
802371	IQ8Quad optical smoke detector (G109512)
802374	IQ8Quad O2T multi-sensor detector (G109513)
802473	IQ8Quad OTG multi-sensor detector (G109514)
015630	RF Panic Button  Battery CR 2032 included
015640	RF magnet contact, traffic white (Battery not included, 1 pcs. required 015606)  approval pending
015642	RF magnet contact, brown (Battery not included, 1 pcs. required 015606)  approval pending
015644	RF magnet contact, contact grey (Battery not included, 1 pcs. required 015606)  approval pending
<u>Accessoires for RF magnet contact</u>	
015606	Lithium battery including connecting cable for RF magnet contact
082404	Magnet in surface mounted housing, traffic white incl. 1 spacer-kit
082414	Magnet in surface mounted housing, brown incl. 1 spacer-kit
082424	Magnet in surface mounted housing, contact grey incl. 1 spacer-kit
082405	Magnet in s.m. housing and spacer-kits, traffic white incl. 3 spacer-kits
082415	Magnet in s.m. housing and spacer-kits, brown incl. 3 spacer-kits
082425	Magnet in s.m. housing and spacer-kits, contact grey incl. 3 spacer-kits

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