

**MB wireless technology**

**Honeywell**



## **Invisible essentials**

**Innovative wireless intruder and fire detectors**

**The MB wireless system protects buildings with high requirements on interior aesthetics such as complex wall panelling, stucco ceilings or regulations on listed buildings.**



Areas of application: complex ceiling and wall panelling, listed buildings, stucco ceilings, designer environments, detached building sections

# Conspicuously discrete

**The MB wireless system offered by Honeywell Security masters the challenges of sophisticated architectural environments and offers reliable intruder and fire protection without compromising on aesthetics.**

An intelligent combination of function and aesthetics plays a decisive role in sophisticated building design. This also concerns the integration of intruder alarm technology. If structural reasons or aesthetic considerations are in favour of deploying cable-free intruder alarms in listed buildings, for example, wireless solutions are increasingly installed. One major advantage of these systems is the possibility to position detectors, contacts and sensors at any location, also enabling wireless components to be integrated in conventional installations. This also applies for the integration of fire detectors. Using wireless components, existing intruder alarm systems in the MB series can also be easily and inexpensively supplemented to include reliable fire protection.

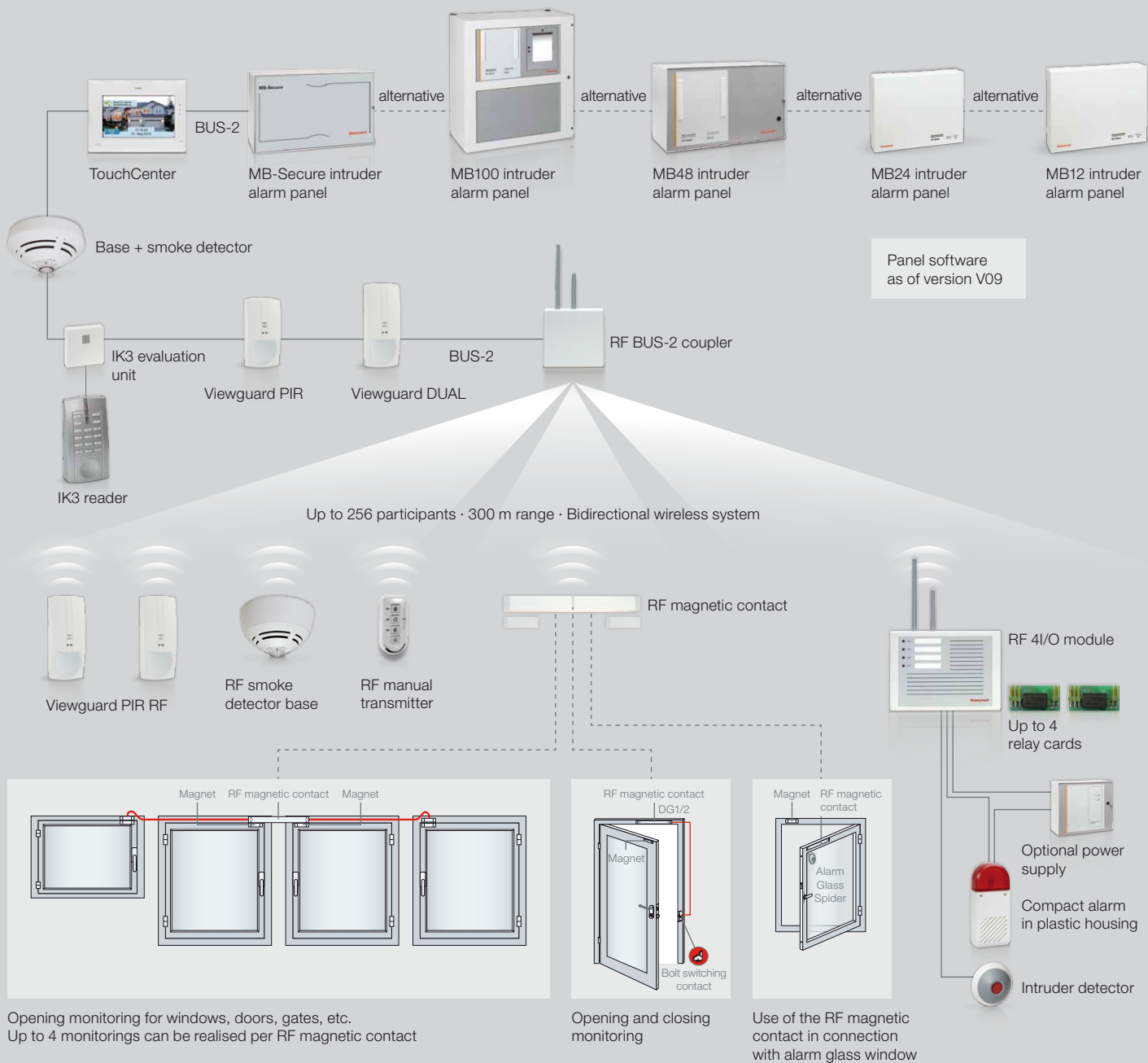
The reliable bidirectional wireless system from Honeywell Security unites the advantages of wireless components with the security of efficient intruder detection panels. These features enable the system to offer all-round protection for business properties, private villas and public buildings of varying sizes.

As of software version V09, the tried-and-tested panels in the MB series are hybrid panels. By coupling wireless and wired bus communication, intruder alarm systems with up to 512 BUS-2 participants, 567 BUS-1 participants and 256 wireless participants can be easily and swiftly realised. And retrofitting existing wired systems is also possible without any major assembly requirements. Everyday operations such as in production or administrative companies are not adversely affected. And cable-free also means fast and clean installation. The system complies with optical demands not only by dispensing with bothersome cabling but also thanks to the discerning design of the components: The Viewguard range of motion sensors has even received the red dot award for product design.

## Possible areas of application

- Listed buildings
- Rooms with complex ceiling and wall panelling
- Detached building sections
- Conversions, renovations, extensions
- Temporary monitoring
- Adaptable floor plans/room layouts

# On the same wavelength: the components



The MB wireless system permits practical parallel connection of wireless components (passive infra-red detectors, alarm contacts, signal transmitters and fire detectors) and standard bus participants to an efficient hybrid intruder alarm panel.

Operation in DUAL band mode with frequency hopping ensures stable signal transmission. The system has VdS class B approval.



# Intelligent, flexible, functional

## Panels

The intruder detector panels in the MB range are designed for private and commercial applications and, depending on the panel model, are suitable for developing medium-sized to large security systems. They comply with the latest guidelines of VdS security class C and permit the connection of both wired detectors and wireless participants. Which is why these panels are also referred to as hybrid panels.

- MB12: 1 primary area and 1 secondary area can be defined; 1 to 12 detector groups; 32 wireless participants (max. 10 RF manual transmitters)



Intruder alarm panels

RF BUS-2 coupler

RF 4I/O module

- MB24: up to 2 primary areas and 7 secondary areas can be defined; 1 to 24 detector groups; 64 wireless participants (max. 10 RF manual transmitters)
- MB48: up to 4 primary areas and 15 secondary areas can be defined; 1 to 48 detector groups; 128 wireless participants (max. 16 RF manual transmitters)
- MB100: up to 16 primary areas and 63 secondary areas can be defined; max. 512 detector groups; 256 wireless participants (max. 32 RF manual transmitters)
- MB-Secure: 256 areas; 1 to 2048 detector groups; 256 wireless participants (max. 32 RF manual transmitters)

RF smoke  
detection baseViewguard  
PIR RF

RF magnetic contact

## Wireless components

The **RF BUS-2 coupler** permits connection of up to 16 random wireless participants each to the intruder alarm panel, whereby the module is particularly energy-efficient with power consumption of only 15 mA. A firmware update directly via the BUS is possible for subsequent extensions featuring additional wireless components.

A panic button or magnetic contacts, for example, can be connected via the four inputs in the **RF 4I/O module**. And signal transducers can be connected to the max. four outputs (relay cards are optional). With the result that extensive control and alarm functions can be realised for the respective building project. Thanks to their low energy consumption, the batteries have a service life of up to 3.5 years.

Fire detectors are integrated in the MB wireless system via the **RF smoke detector base** which is connected wirelessly to the intruder detector system in the MB range and permits wireless connection of fire detectors in the **IQ8Quad** series – an ideal solution for buildings which are not subject to legal requirements for a fire detector system but where such fire detection is nevertheless desired to protect people and property.



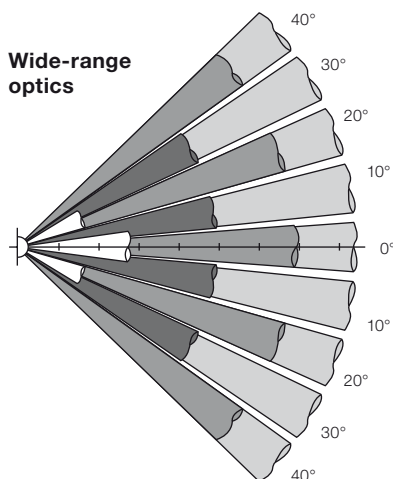
The **RF manual transmitter** serves towards immediate alarm triggering (hold-up alarm) and convenient system operation. It avails of three buttons for external and internal activation and deactivation. A fourth function key can also be programmed at will. The panic function is activated by pressing any two functional keys at the same time. Thanks to its compact size, the wireless manual transmitter can easily be carried around at all times.

# Looks count



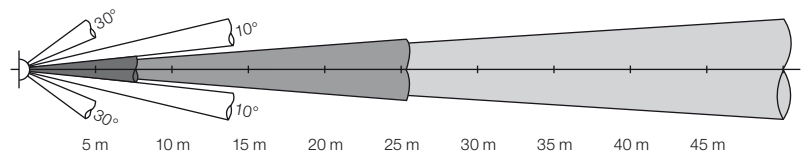
## Viewguard PIR RF

The Viewguard PIR RF is a wireless motion detector based on the passive infra-red principle. The detector features a high-quality mirror lens for comprehensive detection. One particular feature of the detector is its perfect integration in its surroundings. Simply by changing the lens (mirror), the motion sensor adjusts to any room situation, monitoring large rooms by wide-range optics while long-range optics are available for corridors and curtain optics are used for capturing entry areas with small apertures. The sophisticated design of the Viewguard was presented with the international red dot award design prize.

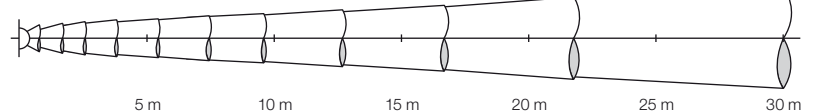


The high-quality mirror wide-range optics displayed by the Viewguard range of products are suitable for monitoring areas of up to 9 x 15 metres. One clear advantage over conventional lens detectors is represented by the zoom feature where each group of capture zones has its own individual focal length.

### Long-range optics



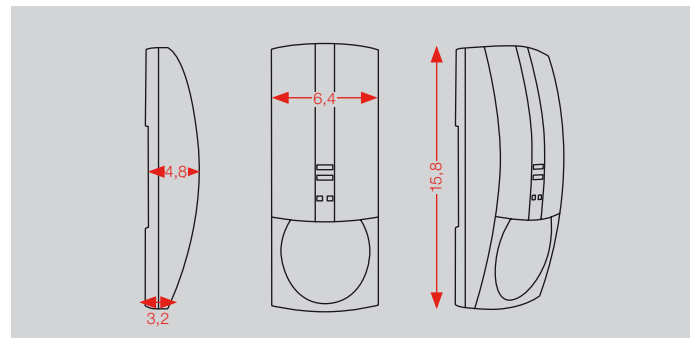
### Curtain optics



Sensitivity is optimised so as to effectively reduce false alarms: a person generates the same signal regardless of how far away they are from the detector. This also makes it possible to differentiate between people and small animals.



The detection principle: Infra-red thermal radiation is recorded in connection with dynamic changes.



Measuring 64 mm x 158 mm x 48 mm (W/H/D), the RF Viewguard PIR integrates perfectly in the area to be monitored and offers protection for a wide variety of situations.

# Easy installation and maintenance

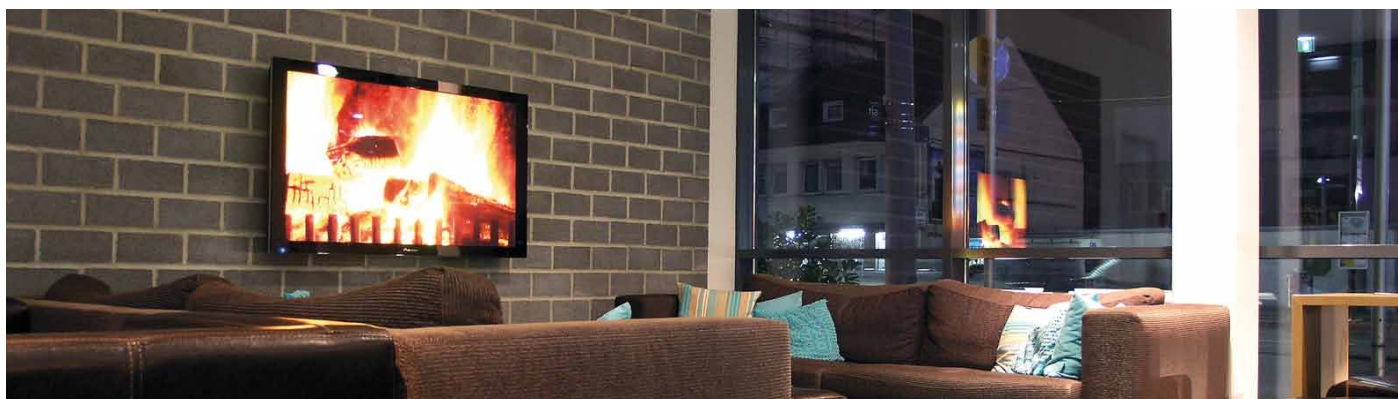
## The MB RF magnetic contact

The new member of the MB wireless system family sets standards in terms of function and flexibility. The MB RF magnetic contact opens up an entire range of new possibilities relating to high-quality security based on our very reliable MB wireless system which has been deployed thousands of times and has VdS class B approval. Whether permanent installations or temporary applications, this wireless magnetic contact represents an installation- and maintenance-friendly product which can noticeably extend your range of action. And its extremely slim design permits application in tight spaces between windows and soffits, for example. Depending on the application, magnets are available as accessories in the installation housing with more or fewer spacer kits of various heights.



The MB RF wireless magnet can be integrated combined with the RF BUS-2 coupler in the following intruder alarm panels: MB-Secure, MB12, 561-MB24, 561-MB48 and 561-MB100.

# Retrofitting made easy

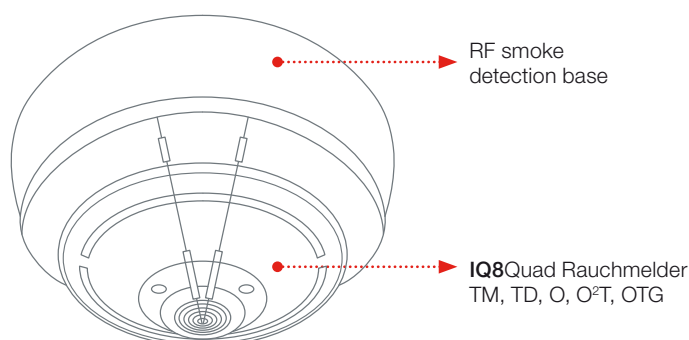


## Including fire protection

The wireless smoke detector base permits flexible connection of fire detectors to intruder alarm panels in the MB range. The panel operates as a comprehensive security system and controls a variety of alarm options previously only possible using a fire detector panel.

Thanks to its modular concept, the respectively suitable fire detector can be selected individually and mounted on the smoke detector base. In the form of the IQ8Quad range, a versatile range of detectors is available: from optical detectors for safe and early detection of fires through optic-thermal detectors for difficult ambient conditions to optic-thermal detectors with integrated gas sensors for detecting carbon

monoxide. The right detector is chosen on the basis of the ambient conditions and possible sources of fire.



Honeywell Security:  
This much is certain!

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