RFMS-ZBMS-3 Wireless sensor 3 pack

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BOSCH
Invented for life

▶ 5 year or greater battery life with a single CR2 battery

▶ Reliable door/window installation is assured with LED indicators for radio link quality, and detector/magnet alignment

▶ Best in class false alarm immunity and installation flexibility through use of 1.3 inch (33 mm) break distance width Hall effect sensor

The ZigBee® wireless multi-sensor is a surface-mount wireless selectable function detector. By default, the detector is a Door Window Detector for monitoring door or window open or closed position. The detector can also be configured as a Water Detector or Tilt Detector. The Low Temperature Alarm Function, which detects when the temperature is less than 40°F (5°C), is an option available when the detector is configured as a Water Detector. The detector also monitors temperature, and includes tamper detection. The ZigBee® compatible radio allows connection to a security or home automation system.

Functions

Configurable detector type
The multi-sensor is initially configured to operate as a Door Window Detector, but is configurable to operate as either a Water Detector or a Tilt Detector.

Magnetic gap width and Hall effect sensor
Through use of an advanced technology Hall effect sensor, the Door Window Detector achieves a best in class break distance width of greater than or equal to 1.3 inch (33 mm). This provides exceptional installation flexibility and improved false alarm immunity relative to competitive models that utilize older reed switch based sensors. This also ensures

reliability of installation in difficult environments, such as doors and windows that experience misalignment as environmental conditions change.

LED indicator for magnet positioning
During a door or window installation, the integrated LED flash rate indicates the strength of the magnetic field. The LED turns off at the optimal placement of the magnet to the detector allowing the installer to have confidence that the detector and magnet are properly aligned.

LED radio link quality indicator
During the enrollment process, an LED indicator allows the installer to verify proper RF signal strength. The color of the LED indicates the radio link quality (RSSI, LQI). If the LED is green, the signal strength is acceptable. If the LED is red, the signal strength is not acceptable indicating to the installer to relocate the magnet and detector.

Exceptional battery life
This detector utilizes a single CR2 lithium battery to achieve better than 5 years battery life under normal operating conditions.

High power radio
The detector incorporates a radio power amplifier that ensures exceptional range as well as high reliability of communications with the security and home

automation systems that it may be enrolled in. This provides significantly better performance than coin cell battery operated devices that cannot utilize a power amplifier due to current draw and battery life trade-offs. The Total Radiated Power (TRP) is approximately 15dBm, which is 12 to 13 dBm higher radio power than typical coin cell operated devices.

Flexible magnet mounting configuration
The detector includes a standard magnetic mounting base as well as a 90 degree mounting base for exceptional door/window installation flexibility. Two exceptionally strong rare earth magnets are included in each magnetic housing and are removable for use on doors or windows where there is minimal space. This also allows for more discrete mounting of the magnet.

Water detection
The detector includes a water probe which detects the presence of water on a floor or surface.

Low temperature alarm
The Low Temperature Alarm function is an optional feature available when the detector is configured as a Water Detector. This feature detects when the indoor air temperature drops below 40°F (5°C).

Tilt detection
The detector includes technology that senses when a moveable surface is tilted 45° from a vertical to a horizontal position.

ZigBee technology
This motion detector utilizes ZigBee technology, a global wireless standard for communicating to both smart devices and security systems in a home automation environment. This ZigBee Certified product works in global 2.4 GHz networks supporting ZigBee HA1.2.

ZigBee
Certified product

Home automation
ZigBee Home Automation wireless technology offers a standard approach for connecting a variety of compliant devices throughout a residential or commercial property. ZigBee technology uses a reliable mesh network that keeps devices connected and working together, while offering outstanding battery life. ZigBee wireless home automation systems seamlessly connect security with home operational and control devices offering the property owner both convenience and peace of mind.

Certifications and approvals

Region	Agency	Certificate
US and Canada	cETLus	Control No.31707912 Conforms to ANSI/UL Std. 634 1. Clause 1.6 Scope of ANSI/UL 634 requires that products shall be installed in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681, or with the Standard for Installation and Classification of Residential Burglar Alarm Systems, UL 1641. Conforms to ANSI/UL 2017 Type Non – Emergency signaling Type NM. Clause 1.1 Scope of ANSI/UL 2017 requires that requires that products shall be installed in accordance with the Standard for National Electrical Code, NFPA 70. (Water Detector) ULC/ORD-C634-86 CSA C22.2#205:2012 Signal Equipment
	FCC	Part 15 Class B ID: T3X-012
	IC	ID: 1249A-012
	ZigBee	ZigBee® Cert No. ZIG17052ZHA25886-24

Region	Regulatory compliance/quality marks	
USA	Zigbee	[RFMS-ZBMS]
Canada	IC	Industry Canada

Parts included

Quantity	Component
3	Detectors with installed batteries
3	Magnet housings with 2 magnets per housing
1	Hardware pack
1	Literature pack

Technical specifications

Environmental considerations

Temperature (operating)	-10°C to +55°C (-14°F to +131°F)
Relative humidity	0% to 85% at +30°C (+86°F)

Power requirements

Frequency	2.4 GHz
Battery life	≥ 5 years with 38 open and 38 close events per day (Door Window Detector) ≥ 5 years (Tilt Detector) ≥ 6 years with 2 water alarms per year (Water Detector)
Battery replacement (1 per detector)	3 VDC ≥ 750mAh Energizer CR2 Lithium Duracell Ultra CR2 Lithium Panasonic CR2 Lithium Sanyo CR2 Lithium

Properties

Dimensions (detector)	46.0 mm x 23.5 mm x 20.3 mm (1.8 in. x 0.92 in. x 0.79 in.)
Dimensions (magnet)	46.0 mm x 8.3 mm x 20.3 mm (1.8 in. x 0.32 in. x 0.79 in.)
Break distance	≥ 33 mm (1.3 in.) mounted to metal, vinyl, or wood

Ordering information

RFMS-ZBMS-3 Wireless sensor 3 pack
Provides door/window, water or tilt detector type configurations. Door Window Detector magnetic gap break distance greater than or equal to 1.3 in (33 mm) when mounted to wood, metal or vinyl surfaces.
Order number **RFMS-ZBMS-3**