

# RADION contact ZB Door Window Detector

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**BOSCH**

Invented for life



- ▶ 5 year or greater battery life with a single CR2 battery
- ▶ Reliable installation is assured thanks to LED indicators for radio link quality, and sensor/magnet alignment
- ▶ Best in class false alarm immunity and installation flexibility through use of 1.3 inch (33 mm) gap width Hall effect sensor

The RADION contact ZB is a surface-mount wireless detector for monitoring open or closed position of metal, wood, and vinyl doors or windows. The ZigBee compatible radio allows connection to a security or home automation system. The detector utilizes advanced Hall effect sensing technology to provide optimal false alarm immunity and best in class gap width. The detector also monitors temperature, and includes a tamper cover. The detector features exceptional battery life, LED indicators for magnet and detector alignment as well as radio link quality to ensure reliable installation.

## Functions

### Magnetic gap width and Hall effect sensor

Through use of an advanced technology Hall effect sensor, this detector is able to achieve a best in class gap width of greater than or equal to 1.3 inches (33 mm). This provides exceptional installation flexibility and improved false alarm immunity relative to competitive models that utilize old 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 the installation process, 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 sensor allowing the installer to have confidence that the detector is 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 that the magnet and sensor needs to be relocated.

### Exceptional battery life

This detector utilizes a single CR2 lithium battery to achieve better than 5 year battery life under normal operating conditions assuming 16 door/window open/close events per day.

### Flexible magnet mounting configuration

The unit includes a standard magnetic mounting base as well as a 90 degree mounting base for exceptional installation flexibility. Two exceptionally strong rare earth magnets are included in each magnetic housing and may easily be removed for use on doors or windows where there is minimal space. This also allows for more discrete mounting of the magnet.

**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	Certification	
USA	FCC	Part 15 Class B
Canada	IC	Industry Canada

**Parts included**

Quantity	Component
2	Sensors with installed batteries
2	Magnets
2	Brackets
2	Tape pieces for brackets
1	Hardware pack
1	Literature pack

**Technical specifications****Environmental considerations**

Temperature (operating)	-20°C to +50°C (+4°F to +122°F)
Temperature (storage)	-20°C to +70°C (-4°F to +158°F)
Relative humidity	< 95%

**Power requirements**

Frequency	2.4 GHz
Battery life	≥ 5 years with 16 open/close alarm events per day
Battery replacement (1 per sensor)	3 VDC ≥ 750mAh Energizer CR2 Lithium Duracell Ultra CR2 Lithium Panasonic CR2 Lithium Sanyo CR2 Lithium

**Properties**

Dimensions (sensor)	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.)
Magnet gap break distance	≥ 33 mm (1.3 in.) mounted to metal, vinyl, or wood

**Ordering information****RADION contact ZB Door Window Detector**

Provides easy installation and superior detection with fewer false alarms. Magnetic gap break distance greater than or equal to 1.3 in (33 mm) when mounted to metal, vinyl or wood.

Order number **RFDW-ZBMS-2**

Preliminary - For internal use only

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