

RADION contact RM

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Invented for life



- ▶ Self-contained transmitter with magnetic reed switch contact
- ▶ Concealed, recessed mounting in doors or windows for unobtrusive security
- ▶ Operational up to 5 years using a single user replaceable AAA Lithium battery
- ▶ Supervised for low-battery and cover-tamper conditions

RADION wireless from Bosch provides the range, scalability and exceptional battery life required to ensure reliable performance and superior quality. Advanced diagnostics and multiple device enrollment options make installation and maintenance simple and cost effective. With a complete line of peripherals, RADION provides the flexibility for virtually any application requirement.

System overview

RADION contact RM is a radio frequency (RF) wireless recessed mount magnetic reed switch contact providing concealed detection on doors or windows. A cylinder enclosure designed for durability houses the transmitter, and provides tamper protection. You can surface mount or remove break-away tabs to flush mount the transmitter and magnet assembly.

Functions

Reed Contacts

There is a reed contact located near the end of the device that detects when the supplied magnet is within 14 mm (0.55 in) of the transmitter. When the distance between the magnet and the internal reed switch of the contact exceeds 14 mm (0.55 in), an alarm signal is sent to the receiver, and from there, to the compatible control panel.

Certifications and approvals

Region	Certificate	
US	UL 634 Connectors and Switches for use with Burglar Alarm Systems	
Region	Certification	
Europe	CE	2004/108/EC EMC Directive (EMC); 2006/95/EC Low-Voltage Directive (LVD); 1999/5/EC Radio equipment and Telecommunications Terminal Equipment (R&TTE); 2011/65/EU Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
	EN5013 1	EN-ST-000159 RADION contact RM/RFDW-RM
Belgium	INCERT	B-509-0072 RADION RFDW-RM, RFDW-SM
USA	UL	20121218-BP8028 RFDW-SM-A, RFDW-RM-A
	UL	UL 1023 - Household Burglar Alarm System Units
	UL	UL 634 - Safety of Connectors and Switches for Use with Burglar-Alarm Systems

Region	Certification	
	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHz [433.42 MHz]
Canada	IC	1249A-RWSSFT [-A model numbers]
China	CCC	2013031901000108 [RFDW-RM-CHI]
Brazil	ANATEL	3576-13-1855 [RFDW-RM-A]

Installation/configuration notes

Mounting considerations

Mount the transmitter in an interior door or window frame, and the magnet assembly on the interior of the moving portion of the door or window. Ensure that the transmitter is protected from weather elements such as extreme temperatures, humidity, rain, or snow.



Notice

Installation on metal surfaces can affect the RF propagation pattern of the radio transceiver.

Parts included

Quantity	Component
1	Detector
1	Magnet assembly
1	Lithium battery (AAA)
1	Hardware pack
1	Installation guide

Technical specifications

Properties

Transmitter dimensions	15.4 mm x 104.7 mm (0.60 in x 4.2 in)
Magnet dimensions	22 mm x 28 mm x 15 mm (0.87 in x 1.10 in x 0.59 in)

Power

Power/voltage	1.5 VDC
Battery type	AAA Lithium
Battery life	Up to 5 years

Environmental considerations

Temperature	Functional range: -10°C to +49° (+14°F to +120°F) UL only: 0°C to +49°C (+32°F to +120°F) EN 50130-5 Class II only: -10°C to 40°C (+14°F to +104°F)
Environment	Complies with EN50130-5 Class II

Relative humidity	Up to 93% non-condensing
Cover tamper detection	Transmits a tamper switch signal when the cover is removed from the detector.
Frequency	433.42 MHz
Use	Intended for indoor use.

Compatibility

Receivers	B810 wireless receiver (compatible with RFDW-RM-A only)
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Ordering information

RFDW-RM-A (433.42 MHz)

For use in North and South America
Order number **RFDW-RM-A**

RFDW-RM (433.42 MHz)

For use in Europe, Africa, and Australia.
Order number **RFDW-RM**

RFDW-RM-CHI (433.42 MHz)

For use in China only.
Order number **RFDW-RM-CHI**

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