

RADION contact RM



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.



- ▶ 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

Regulatory information

Region	Regulatory compliance/quality marks	
Europe	CE	EMC, LVD, R&TTE, RoHS RFDW-RM; RFDW-SM
	EN50131	EN-ST-000159 [RFDW-RM]
USA	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHZ
	UL	20121218-BP8028
	UL	UL 1023 - Household Burglar Alarm System Units, SIA-CP-01:2010
	UL	UL 634 - Safety of Connectors and Switches for Use with Burglar-Alarm Systems
Canada	IC	1249A-RWSSFT
China	CCC	2013031901000108 [RFDW-RM-CHI]
Germany	VdS	H116003 [AMAX 2100/3000, RFRC-OPT, RFUN, RFDW-RM, RFDW-SM, RFPR-12, RFDL-11, RFKF-TB, RFKB-FB]
Belgium	INCERT	B-509-0072 [RADION RFDW-RM, RFDW-SM]
Brazil	ANATEL	3576-13-1855
Russia	GOST	TC N RU Д-НЛ.МН09.В.00334 EAC

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.

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)
Weight	0,064 kg (0.141 lb)

Power

Power/voltage	1.5 VDC
Battery type	AAA Lithium
Battery life	Up to 5 years Upon power-up, test mode lasts approximately 10 sec.

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 55° C (+14° F to +131° F) IP30/IK04
Environment	Complies with EN50130-5 Class II
Relative humidity	Up to 93% non-condensing

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Cover tamper detection ¹	Transmits a tamper switch signal when the cover is removed from the detector.
Frequency	433.42 MHz
Use	Intended for indoor use.

¹After test mode, this detector is operational.

Ordering information

RFDW-RM Wireless recessed mount contact

RADION wireless magnetic reed door and window detector.

Order number **RFDW-RM | F.01U.253.612**
F.01U.383.291

RFDW-RM-CHI Wireless recessed mount contact

RADION wireless magnetic reed door and window detector. For use in China only.

Order number **RFDW-RM-CHI | F.01U.253.629**

Services

EWE-DETCTR-IW 12 mths wrty ext detector general

12 months warranty extension

Order number **EWE-DETCTR-IW**