

RADION universal transmitter



- ▶ Single alarm loop input can be configured for use with virtually any Normally Open or Normally Closed external detector
- ▶ Integrated magnetic reed switch contact
- ▶ Supervised for low-battery, cover-tamper, and removal from mounting surface
- ▶ Operational up to 5 years using a single user replaceable CR123A lithium battery

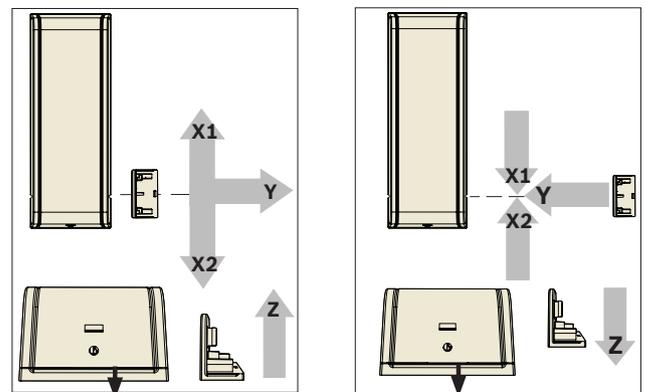
RADION wireless from Bosch provides the range, scalability and exceptional battery life required to ensure reliable performance and superior quality. Advanced diagnostics and multiple device enrollment options make installation and maintenance simple and cost effective. With a complete line of peripherals,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

System overview

RADION universal is a wireless detector used for monitoring doors, windows, and dry contact devices.

Functions

RADION universal is magnetic and dry contact wireless detector and transmitter which is appropriate for monitoring doors, windows, or other dry contact devices. The transmitter has a cover and wall tamper switch, and RF supervision. Additional capabilities also include the ability to accept a supervised dry contact input from an external device. The external loop input may be configured for use with either Normally Open or Normally Closed dry contact devices.



	Y	14.5 ± 1.5 mm (0.57 ± 0.06 in)
	X1	14.5 ± 3.5 mm (0.57 ± 0.14 in)
	X2	15.5 ± 3.5 mm (0.61 ± 0.14 in)
	Z	22.0 ± 4.0 mm (0.87 ± 0.16 in)
	Y	15.0 ± 4.0 mm (0.59 ± 0.16 in)
	X1	14.0 ± 4.0 mm (0.55 ± 0.16 in)
	X2	14.5 ± 4.5 mm (0.57 ± 0.18 in)
	Z	24.0 ± 3.0 mm (0.94 ± 0.12 in)

	Y	12.5 ± 1.5 mm (0.49 ± 0.06 in)
	X1	13.5 ± 3.5 mm (0.53 ± 0.14 in)
	X2	14.5 ± 3.5 mm (0.57 ± 0.14 in)
	Z	20.0 ± 4.0 mm (0.79 ± 0.16 in)
	Y	13.5 ± 4.5 mm (0.53 ± 0.18 in)
	X1	13.0 ± 4.0 mm (0.51 ± 0.16 in)
	X2	13.5 ± 4.5 mm (0.53 ± 0.18 in)
	Z	22.5 ± 3.5 mm (0.89 ± 0.14 in)

Regulatory information

Region	Regulatory compliance/quality marks	
Europe	CE	EMC, LVD, R&TTE, RoHS [RFUN]
	EN50131	EN-ST-000158 [RFUN]

Region	Regulatory compliance/quality marks	
USA	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHz
	UL	UL 365 - Police Station Connected Burglar Alarm Units
	UL	UL 609 - Standard for Local Burglar Alarm Units and Systems
	UL	UL 634 - Safety of Connectors and Switches for Use with Burglar-Alarm Systems
	UL	UL 636 - Holdup Alarm Units and Systems
	UL	UL 985 - Household Fire Warning System Units (6th edition)
	UL	UL 1023 - Household Burglar Alarm System Units, SIA-CP-01:2010
	UL	UL 1076 - Proprietary Burglar Alarm Units and Systems
	UL	UL 1610 - Central Station Burglar Alarm Units
Canada	IC	1249A-RWSSFT
China	CCC	2021031901000024 [RFUN-CHI]
Germany	VdS	H116003 [AMAX 2100/3000, RFRC-OPT, RFUN, RFDW-RM, RFDW-SM, RFPR-12, RFDL-11, RFKF-TB, RFKB-FB]
Australia	RCM	[RFUN]
Belgium	INCERT	B-509-0073 [RADION RFUN]
Brazil	ANATEL	2750-13-1855
Russia	GOST	TC N RU Д-НЛ.МН09.В.00334 EAC
Singapore	iDA	N0374-18 IMDA ESER Acknowledgement of Registration for Bosch RFUN

Installation/configuration notes

Mounting Considerations

When installing the RADION universal magnetic assembly, it is advised to install the assembly so that the side of the magnet assembly is flush to the door or window area.

Mount the transmitter on 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.

i Notice

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

Installing the plastic magnet cover flush against the door or window will prevent possible damage to the plastic magnet cover.

Compatibility

Receivers:	B810 wireless receiver (compatible with RFUN-A only) RFRC-OPT wireless receiver (compatible with RFUN only) RFRC-OPT-CHI wireless receiver (compatible with RFUN-CHI only)
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Technical specifications

Properties

Dimensions: Transmitter	33.02 x 82.55 x 19.5 mm (1.30 in x 3.25 in x 0.76)
Dimensions: Magnetic	18.5 mm x 24.5 mm x 12.5 mm (0.72 in x 0.97 in x 0.49 in)
Weight:	0,094 kg (0.207 lb)

Power

Power/Voltage:	One CR123A Lithium battery, 3 VDC
Battery life:	Up to 5 years Upon power-up, test mode lasts for approximately 10 sec.

Environmental Considerations

Temperature:	Functional range: -10° C to +55° (+14° F to +131° 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)
Environment	Complies with EN50130-5 Class II IP30/IK04
Relative Humidity:	Up to 93% non-condensing
Cover and Wall Tamper Switch ¹ :	Transmits a tamper switch signal when the detector is removed from its base, or the unit is pulled away from the wall.

Maximum distance between sensor and magnet:	<12.7 mm (1/2 in) Place the magnet on either side. The base has marks to indicate the positioning of the magnet.
Wire gauge:	0.65 mm (22 AWG) to 1.5 mm (16 AWG)
Frequency:	433.42 MHz
Use:	Intended for indoor use.

¹After test mode, this detector is operational.

Ordering information

RFUN Wireless loop input and contact

Wireless magnetic reed door and window contact.

Order number **RFUN | F.01U.253.619 F.01U.383.352**

RFUN-CHI Wireless loop input and contact

Wireless magnetic reed door and window contact. For use in China only.

Order number **RFUN-CHI | F.01U.253.637**

F.01U.383.367

Accessories

RFAC-UN-10 Spacer for RADION universal TX, 10pcs

Package of 10 base spacers and 10 magnet spacers for RADION Universal Transmitter.

Order number **RFAC-UN-10 | F.01U.312.299**

Services

EWE-DETCR-IW 12 mths wrty ext detector general

12 months warranty extension

Order number **EWE-DETCR-IW**

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