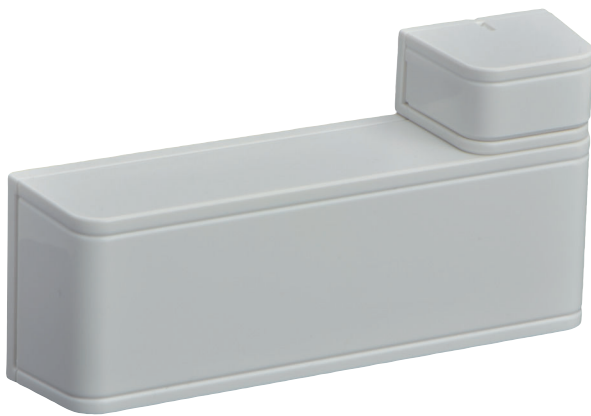


RADION universal transmitter

www.boschsecurity.com



BOSCH
Invented for life



- ▶ 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 tamper conditions.
- ▶ Operational for up to 5 years using a single 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 transmitter 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.

Certifications and approvals

Region	Certificate
US	UL 365 – Police Station Connected Burglar Alarm Units and Systems UL 609 – Local Burglar Alarm Units and Systems UL 634 – Connectors and Switches for use with Burglar Alarm Systems UL 636 – Holdup Alarm Units and Systems UL 985 - Household Fire Warning System Units UL 1023 – Household Burglar Alarm System Units UL 1076 – Proprietary Burglar Alarm Units and Systems UL 1610 – Central Station Burglar Alarm Units FCC Part 15 Classified to ANSI/SIA CP01-2010

Region	Certification
Australia	RCM [RFUN]
Europe	CE 2004/108EC 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

Region	Certification	
	EN50131	EN-ST-000158 RADION universal transmitter/RFUN
USA	UL	20121213-BP1448 Certificate of Compliance
	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHz [433.42 MHz]
Canada	IC	1249A-RWSSFT [-A model numbers]
China	CCC	2013031901000109
Brazil	ANATEL	2750-13-1855

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.



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.

Parts included

Quantity	Component
1	Universal transmitter
1	Lithium battery (CR123A)
1	Hardware pack
1	Installation guide

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)

Power

Power/Voltage:	One CR123A Lithium battery, 3 VDC
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 and Wall Tamper Switch:	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.

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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Ordering information

RFUN-A (433.42 MHz)

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

RFUN (433.42 MHz)

For use in Europe, Africa, and Australia.
Order number **RFUN**

RFUN-CHI (433.42 MHz)

For use in China only.
Order number **RFUN-CHI**

Accessories

RADION spacer kit (RFAC-UN-10)

Package of 10 base spacers and 10 magnet spacers for RADION Universal Transmitter.
Order number **RFAC-UN-10**

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