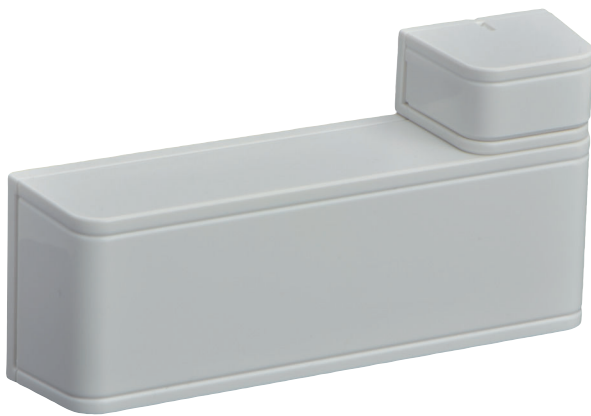


RADION universal transmitter

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 up to 5 years using a single user replaceable CR123A lithium battery

RADION wireless security solution 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	Regulatory compliance/quality marks	
Australia	RCM	[RFUN]
Germany	VdS	H116003 [AMAX 2100/3000, RFRC-OPT, RFUN, RFDW-RM, RFDW-SM, RFPR-12, RFDL-11, RFKF-TB, RFKB-FB]
Europe	CE	EMC, LVD, R&TTE, RoHS [RFUN]
	EN5013 1	EN-ST-000158 [RFUN]
Belgium	INCERT	B-509-0073 [RADION RFUN]

Region	Regulatory compliance/quality marks	
Russia	GOST	EAC
USA	UL	20121213-BP1448 [RFUN-A]
	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHz
Canada	IC	1249A-RWSSFT [RFDW-SM-A, RFDW-RM-A, RFBT-A, RFUN-A, RKF-A, RFRP-A, RFPR-12-A, RFPR-C12-A, RFSM-A, RFPB-TB-A, RFPB-SB-A, RKF-FB-A, RKF-TB-A, RFIN-A, RFGB-A]
China	CCC	2013031901000109 [RFUN-CHI]
Brazil	ANATEL	2750-13-1855 [RFUN-A]
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.

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, factory test mode lasts for 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
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 factory test mode, this detector is operational.

Ordering information

RFUN-A Wireless loop input and contact

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

RFUN Wireless loop input and contact

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

RFUN-CHI Wireless loop input and contact

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

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**

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