RADION repeater

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BOSCH
Invented for life

- ▶ Powered by AC adaptor power supply
- ▶ Includes 72 hour Lithium polymer battery back-up in case of AC power failure
- ▶ Supervised for low-battery, cover-tamper, AC failure, and removal from mounting surface tamper conditions
- ▶ Up to 8 repeaters can be utilized in one system
- ▶ Expands the range and improves the reliability of the wireless system

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 repeater receives transmissions from RADION transmitters and re-transmits them to improve transmitted message reliability and range for compatible transmitters and its assigned compatible receiver. RADION repeaters are ideal for large facilities, and multi-level buildings, retail stores, college campus, and malls.

Functions

RADION repeaters are ideal for expanding and improving wireless coverage where the receiver is experiencing difficulty receiving messages from assigned RADION transmitters.

LED indicator
The LED indicator on the repeater indicates the status of the repeater, as well as the receiving and transmitting of RF packets of information.

Lithium polymer battery
Built in 72 hour battery back-up in case of power failure helps to ensure system reliability.

Primary power
Primary power is provided by an AC power supply adaptor. The AC power supply is sold separately.

Self-locking enclosure
The sliding self-locking enclosure has an integrated bubble level and custom gap-free, lift-gate style terminal blocks to make installation easier.

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 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

Region	Certification	
Australia	RCM	36 068 450 171
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)
USA	FCC	Part 15 Security/Remote Control Transmitter 433.42 MHZ [433.42 MHZ]
Canada	IC	1249A-RWSSFT [-A model numbers]
Brazil	ANATEL	4398-13-1855 [RFRP-A]

Installation/configuration notes

Mounting considerations
You can mount the repeater in residential, commercial, industrial, or academic locations in which a compatible control panel and receiver are already installed.

Wiring considerations
The AC power adapter connects to the repeater using the terminal block connections on the far right, and left of the terminal block.

LED verification
Upon completion of the repeater installation, the LED display flashes, indicating communication between the repeater and compatible transmitter.

Parts included

Quantity	Component
1	repeater
1	Installation guide
1	Hardware pack

Technical specifications

Properties

Dimensions	139.7 mm x 209.6 mm x 31.8 mm (5.5 in x 8.25 in x 1.25 in)
Maximum wiring distance	Less than 9 m (30 ft)
Wire gauge	0.65 mm (22 AWG) to 2.0 mm (18 AWG)

Power

Power/voltage	18 VAC, 50/60 Hz, 22 VA
Current draw	60 mA

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
Wall and cover tamper switch	Transmits a tamper switch signal when the unit is removed from its base, or the unit is pulled away from the mounting surface.
Frequency	433.42 MHz
Use	Intended for indoor use.

Compatibility

Receivers	B810 wireless receiver (compatible with RFRP-A only)
Plug-in transformers	**RFRP-A:** • BOSCH CX4010 Plug-in Transformer – F.01U.020.504 (110 VAC primary voltage input, 18 VAC, 22 VA) • BOSCH D1640 Plug-in Transformer – 4.998.125.832 (16 VAC, 40 VA • MG Electronic (MGT-1640), primary rated 120 VAC, 60 Hz, 0.48 Amps, secondary rated 16.5 VAC, 40 VA • Codex (SEP-1640), primary rated 120 VAC, 60 Hz, 0.48 Amps, secondary rated 16.5 VAC, 40 VA • TDC Part No (DA-22-18), primary rated 120 VAC, 60 Hz, 30 Va, secondary rated 18 VAC, 1.3 Amps, 22 VA

Ordering information

RFRP-A (433.42 MHz)
For use in North and South America
Order number **RFRP-A**

RFRP (433.42 MHz)
For use in Europe, Africa, and Australia.
Order number **RFRP**

RFRP-CHI (433.42 MHz)
For use in China only.
Order number **RFRP-CHI**