

RADION repeater



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 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 in 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.



- ▶ Powered by DC power supply
- ▶ Includes 72 hour Lithium Ion battery back-up in case of power failure
- ▶ Supervised for low-battery, cover-tamper, DC 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

Lithium Ion 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 a DC power supply. The DC 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

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

DC power connects to the repeater using the two center terminal block connections on the terminal block.

LED verification

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

Compatibility

Receivers	B810 wireless receiver B810-CHI wireless receiver RFRC-OPT wireless receiver RFRC-OPT-CHI wireless receiver RFRC-STR wireless receiver RFRC-STR2 wireless receiver
Compatible power supply	Compatible plug-in transformers for use with the RFRP2 repeater: <ul style="list-style-type: none"> WR9QE1000A00N6WG3150 - 12V, 1A power supply with NAM blade. (S/N: F.01U.398.526) For installations other than the U.S., transformers must meet the country-specific requirements
Compatible blade kit	Q-KIT-INTL-6-WH-RB - International blades for 12V, 1A. (S/N: F.01U.398.527)

Technical specifications

Mechanical

Dimensions (H x W x D) (mm)	139.70 mm x 209.60 mm x 33.20 mm
Dimensions (H x W x D) (in)	5.50 in x 8.25 in x 1.31 in
Maximum wiring distance	Less than 60 m (200 ft)
Compatible power supply	Compatible plug-in transformers for use with the RFRP2 repeater: <ul style="list-style-type: none"> WR9QE1000A00N6WG3150 - 12V, 1A power supply with NAM blade. (S/N: F.01U.398.526) For installations other than the U.S., transformers must meet the country-specific requirements.
Compatible blade kit	<ul style="list-style-type: none"> Q-KIT-INTL-6-WH-RB - International blades for 12V, 1A. (S/N: F.01U.398.527)
Wire gauge	0.65 mm (22 AWG) to 2.0 mm (18 AWG)

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Electrical

Input voltage (VDC)	12 VDC, 1 A 10-14 VDC, nominal
Standby battery	This component is internal and not user replaceable.
Typical current draw	45 mA

Environmental

Operating temperature (°C)	0 - 49°C
Operating temperature (°F)	32 - 120°F
Operating relative humidity, non-condensing (%)	0 - 93%
Environmental class (EN 50130-5)	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.
Device testing	To ensure proper functionality, the device must be tested at least once every year by an installer.
Frequency	433.42 MHz
Use	Intended for indoor use.

Ordering information

RFRP2 Wireless transceiver

Combined transmission and receiver device that improves overall transmission.

Order number **RFRP2 | F.01U.389.906**

RFRP2-CHI Wireless transceiver

For China only.

Order number **RFRP2-CHI | F.01U.383.365**