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.

Certifications and approvals

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.

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:  
| • 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) |

### 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)

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### Wire gauge

- 0.65 mm (22 AWG) to 2.0 mm (18 AWG)

### 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