

## RADION receiver ST



- ▶ Dual internal antennas provide spatial and polar diversity for highly reliable RF signal reception
- ▶ Cover and wall tamper detection
- ▶ Multiple device and control panel supportive options as well as RF diagnostics ensure efficient and effective installation
- ▶ Supports RADION repeater to increase wireless system coverage and reliability
- ▶ External status LED

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 and control panel supportive 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

The RADION receiver ST is a wireless receiver that connects RADION and DSRF wireless peripherals such as motion and specialty detectors, keyfobs, panic buttons, door/window contacts, repeaters and more to supported Bosch and other compatible control panels. Wiring connections are established through the terminal block connection.

The receiver supports RF communication information at 433.42 MHz carrier frequency and is equipped with tamper detection, and detects and reports radio frequency interferences.

The receiver can be easily accessed and configured for a compatible control panel using the address switch on the back of the receiver housing. The receiver address switch provides a single-digit setting for the receiver's mode selection, allowing for ease of installation.

### Functions

The receiver uses the RADION wireless protocol and supports:

- Streamline bus communication
- Tamper input processing
- RF interference (jamming) detection and reporting
- Signal strength and margin reporting
- Compatible control panels and device management

### Address switch addressing

Use the address switch to easily assign a proper mode to the receiver during installation.

### Easy installation

The sliding self-locking enclosure has an integrated bubble level and a custom gap-free, lift gate style terminal block to make installation easier, faster, and more reliable.

### LED display

The LED provides status and troubleshooting information about the receiver and its connection.

### RF interference (jamming) detection and reporting

The receiver detects and reports interference jamming when the ambient noise level is above jamming thresholds for a period of 30 out of 60 seconds. The Jamming threshold is set at 70 percent of the full scaled received RF signal strength.

### Communications

RF packet information is received through the use of two spatial and polar diverse antennas. The receiver then transfers status change information to the control panel.

### Wall and cover tamper switch

The receiver transmits a tamper signal when someone removes the device from its base, or pulls it away from the wall.

## Installation/configuration notes

### Mounting considerations

You can mount the wireless receiver in residential, commercial or industrial locations in which a compatible control panel is already installed. The installation of the wireless receiver should be at a distance no greater than 300 m (1000 ft) from the control panel.

### Wiring considerations

The wireless receiver connects to a control panel using the terminal block connections (R, B, Y). Use 22 AWG (0.6 mm) wires from the receiver to the control panel when connecting the wiring to the terminal block of the receiver.

## Technical specifications

### Mechanical

Dimensions:	139.7 mm x 209.6 mm x 31.8 mm 5.5 in x 8.25 in x 1.25 in
Wire length:	300 m (1000 ft)
Wire gauge:	0.65 mm (22 AWG) to 1.3 mm (16 AWG)

### Power

Voltage (operating):	12 VDC
Maximum Current Draw:	100 mA
Frequency:	433.42 MHz

### Environmental Considerations

Temperature (operating):	-10° C to +55° C (+14° F to +131° F)
Relative humidity:	Up to 93% non-condensing
Use:	Intended for indoor use.

### Compatibility

RADION devices	RFRP/RFRP-CHI repeater RFBT/RFBT-CHI bill trap
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RFDL-11/RFDL-11-CHI motion detector TriTech
RRDW-RM/RFDW-RM-CHI recessed door/ window contact
RFDW-SM/RFDW-SM-CHI standard door/ window contact
RFGB/RFGB-CHI glass break
RFKF-FB/RFKF-FB-CHI keyfob
RFKF-TB/RFKF-TB-CHI keyfob
RFPB-SB/RFPB-SB-CHI panic
RFPB-TB/RFPB-TB-CHI panic
RFPR-12/RFPR-12-CHI motion detector PIR
RFPR-C12/RFPR-C12-CHI motion detector (curtain) PIR
RFSM/RFSM-CHI smoke detector
RFUN/RFUN-CHI universal transmitter
RFKF-FBS/RFKF-TBS/RFKF-FBS-CHI/RFKF- TBS-CHI keyfob
RFKF-FBS-A/RFKF-TBS-A keyfob

### DSRF devices

RF835E
RF940E
RF3401E
RF3405E
RF280E
RF110E
RF3406E
RF3332E
RF3334E
RF3503E

### Control panels

Solution 6000/144 (CC610)
Solution Ultima (ICP-CC488)
Solution 64 (CC110)
Solution 16Plus (CC100)
Solution 16i (CC500)
DS6R
DS12R
DS6MX

## Ordering information

### RFRC-STR2 Wireless streamline bus interface AU

The RADION receiver ST is a wireless receiver that connects RADION and DSRF wireless devices to Bosch and other compatible control panels. For use with compatible Streamline Bus control panels (streamline bus 433.42 MHz) in Australia.

Order number **RFRC-STR2 | F.01U.318.378**

**RFRC-STR2-CHI Wireless streamline bus interface**

The RADION receiver ST is a wireless receiver that connects RADION and DSRF wireless devices to Bosch and other compatible control panels. For use with compatible Streamline Bus control panels (streamline bus 433.42 MHz) in China.

Order number **RFRC-STR2-CHI | F.01U.319.202**  
**F.01U.390.011**

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**RFRC-STR Wireless streamline bus interface**

The RFRC-STR is a wireless receiver that connects RADION and DSRF wireless devices to Bosch and other compatible control panels. For use with compatible Streamline Bus control panels (streamline bus 433.42 MHz) in Italy.

Order number **RFRC-STR | F.01U.253.604**  
**F.01U.390.009**

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**Services****EWE-RFREC-IW 12 mths wrty ext RF Receiver / Repeater**

12 months warranty extension

Order number **EWE-RFREC-IW**

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