RFRC-STR3 Wireless streamline bus interface AU
RADION receiver STR

SDI2

▶ 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

This device 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 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 it's base, or pulls it away from the wall.

Regulatory information

Region	Regulatory compliance/quality marks	
Europe	CE	B812; RFRC-STR3

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 304.8 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.

Parts included

Quantity	Component
1	Wireless receiver
1	Hardware pack
1	Installation guide

Technical specifications

Mechanical

Dimensions (H x W x D) (mm)	209.60 mm x 139.70 mm x 31.80 mm
Dimensions (H x W x D) (in)	8.25 in x 5.50 in x 1.25 in
Material	Plastic (ABS)
LED color	Red
Wiring distance	304.8 m (1000 ft)
Wiring gauge	0.65 mm (22 AWG) - 2.0 mm (18 AWG)

Tamper detection	Transmits a tamper switch signal when the unit is removed from its base, or the mounting surface.

Environmental

Operating temperature (℃)	-20 ℃ – 55 ℃
Operating temperature (℉)	-4 ℉ – 131 ℉
Operating relative humidity, non-condensing (%)	0% – 93%
IP rating	IP41
Use	Intended for indoor use.

Electrical

Operating voltage (VDC)	10 VDC – 14 VDC
Current consumption (mA)	20 mA
Receiver (RF) frequency range (MHz)	433.42 MHz

Ordering information

RFRC-STR3 Wireless streamline bus interface AU
For use with compatible Streamline Bus control panels (streamline bus 433.42 MHz).
Order number **RFRC-STR3 | F.01U.426.401**

https://www.boschsecurity.com