RADION receiver SD

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BOSCH
Invented for life

- Dual internal antennas provide spatial and polar RF signal reception for high reliability
- Cover and wall tamper protection
- Multiple device enrollment options as well as RF diagnostics ensure efficient and effective installation
- Supports supervision of wireless points (504), keyfobs (1000), and repeaters (8)
- External status LEDs

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

The B810 is a wireless receiver that connects RADION wireless peripherals such as the motion and specialty detectors, keyfobs, panic buttons, door window contacts, repeaters, and more, to supported Bosch control panels using the SDI2 Bus connection.
The receiver supports RF communication at 433.42 MHz This frequency features improved penetration, reflection, and refraction of signal for superior range, and reliability. The receiver also features dual antennas to achieve spatial and polar diversity to further improve RF communication reliability. Enclosed within the receiver housing for higher security, the receiver is equipped with tamper protection, and detects and reports radio frequency interferences. The receiver supports supervision of wireless points (504), key fobs (1000), and repeaters (8).
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 address, allowing for ease of installation.

Functions

The receiver uses the RADION wireless protocol which supports:

- SDI2 bus communication
- Tamper input processing
- RF interference (jamming) detection and reporting
- Signal strength and margin reporting
- Enroll Device Database management

Address switch addressing
Use the address switch to easily assign a bus address or setup 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 continuous period of 20 seconds.

Communications
RF packet information is received through the use of two spatial and polar diversity antennas. The receiver then transmits a 4-bit sequence of information back to the control panel for status changes.

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.

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 FCC Part 15 Classified to ANSI/SIA CP01-2010

Region	Certification	
Australia	RCM	
USA	UL	20121227-BP1448; UL 1076 - Proprietary Burglar Alarm Units and Systems; UL 1610 – Central-Station Burglar-Alarm Units; UL 1023- Household Burglar Alarm System Units; UL 985- Household Fire Warning System Units; UL 609- Local Burglar Alarm System Units; UL 365- Police Station Connected Burglar Alarm System Units; UL 636-Holdup Alarm Units and Systems; ANSI/SIA CP-01-2010 – Control Panel Standard – Features for False Alarm Reduction Certificate of Compliance
	CSFM	7167-1615:0247 7167 -- CONTROL UNIT (HOUSEHOLD)

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 243 m (800 ft) from the control panel.

Wiring considerations
The wireless receiver connects to a control panel using the SDI2 connections (PWR, A, B, COM). Use appropriate gauge 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

Properties

Dimensions:	139.70 mm x 209.60 mm x 31.80 mm (5.50 in x 8.25 in x 1.25 in)
Wiring Distance:	243 m (800 ft)
Wiring Gauge	0.65 mm (22 AWG) to 2.0 mm (18 AWG)
Tamper detection	Transmits a tamper switch signal when the unit is removed from its base, or the mounting surface.
Compatibility:	GV4 Series (D9412GV4, D7412GV4 v2.xx or higher) control panels B5512/B4512/B3512 control panels RFDL-11-A motion detector RFDW-SM-A standard door/window contact RFDW-RM-A recessed door/window contact RFRP-A repeater RFPR-12-A motion detector RFPR-C12-A motion detector (curtain) RFUN-A universal transmitter RFKF-FB-A 4-button keyfob RFKF-TB-A 2-button keyfob RFPB-TB-A 2-button panic RFPB-SB-A single button panic RFGB-A glass break

Power

Power/Voltage:	10-14 VDC, 12 VDC nominal
Maximum Current Draw:	70 mA
Frequency:	433.42 MHz

Environmental Considerations

Operating Environment:	0°C to +49°C (+32°F to +120°F)
Relative Humidity:	Up to 93% non-condensing
Use:	Intended for indoor use.

Ordering information

RADION receiver SD (SDI2, 433.42 MHz)
For use with compatible SDI2 bus control panels.
Order number **B810**

Represented by:

Americas:
Bosch Security Systems, Inc.
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone: +1 800 289 0096
Fax: +1 585 223 9180
security.sales@us.bosch.com
www.boschsecurity.us

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5617 BA Eindhoven, The Netherlands
Phone: + 31 40 2577 284
Fax: +31 40 2577 330
emea.securitysystems@bosch.com
www.boschsecurity.com

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943
Phone: +65 6571 2808
Fax: +65 6571 2699
apr.securitysystems@bosch.com
www.boschsecurity.asia

China:
Bosch (Shanghai) Security Systems Ltd.
201 Building, No. 333 Fuquan Road North IBP
Changning District, Shanghai
200335 China
Phone +86 21 22181111
Fax: +86 21 22182398
www.boschsecurity.com.cn

America Latina:
Robert Bosch Ltda Security Systems Division
Via Anhanguera, Km 98
CEP 13065-900
Campinas, Sao Paulo, Brazil
Phone: +55 19 2103 2860
Fax: +55 19 2103 2862
latam.boschsecurity@bosch.com
www.boschsecurity.com

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