

RF940E Wireless PIR Detector

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The RF940E is a high performance PIR motion sensor that uses advanced signal processing to provide outstanding catch performance and unsurpassed false alarm immunity. The RF940E's pet immunity tolerates pets and animals such as a dog up to 13 kg, two cats, or numerous rodents. The detector contains an integral RF transmitter capable of transmitting up to 300 m in open air. The transmitter sends a battery report with each transmission and transmits a supervisory signal to the control panel every thirteen minutes.



Notice

Actual acceptable transmitter range should be verified for each installation.

Certifications and approvals

Europe Complies with EN50131-1, Grade 2

Region	Certification
Europe	CE 1999/5/EC, EN60950 1992 (2nd edition) +A1 (1993) +A2 (1993) +A3 (1995) +A4 (1997), EN55022-1 Class B (1999), EN55024 (1998), EN50130-4 (1995) +A1 (1998) +A2

Region	Certification
	(2003), EN61000-4-2 (1995), EN61000-4-3 (1997), EN61000-4-4 (1995), EN61000-4-5 (1995), EN61000-4-6 (1997), EN61000-4-8 (1994), EN61000-4-11 (1994), EN301489-3 (2000), ETS300683 (1997), EN300222-1 (1997-99), EN300220-3 (1997-99)
	CE 1999/5/EC, EN60950: 1993 +A1 +A2 +A3 +A4, EN300220-1: 1997, EN300683: 1997
China	CCC 2008031901000108
Brazil	ANATEL 0254-06-1855

Installation/configuration notes

Compatibility Information

The RF940E detector is compatible with the following combinations of receivers and control panels:

Receivers	Control Panels
RF3212E	Solution Ultima 844, 862, and 880 control panels, CC488 control panels
RF3213E	VR-8 control panels

RF3222E	DS7400XiV4 control panels
RF3227E	DS7240, CC7240-A Solution 40 control panel
RF3228E	Marise control panels
RF3249E	DA (Abacus) control panels

Mounting Considerations

Surface or corner mount (with or without the optional bracket) at a height between 2.3 m and 2.7 m high.

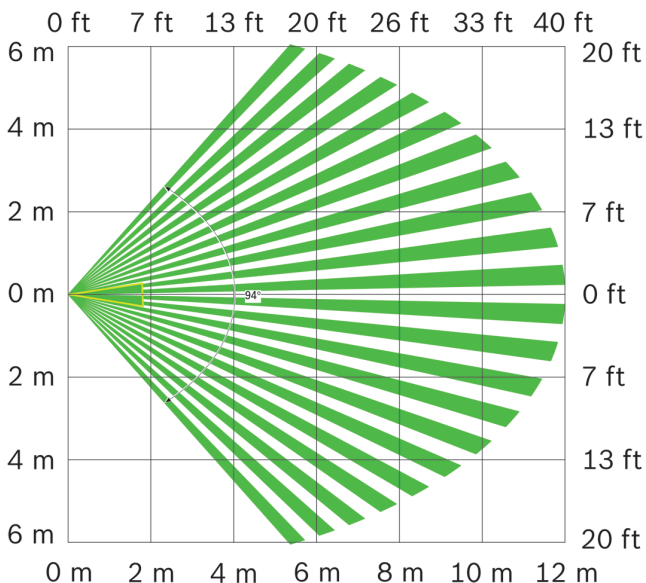
- The maximum wireless range of the detector, in open air, is approximately 300 m. In normal household or commercial applications, keep the detector within 100 m of the assigned control panel receiver.
- Temporarily mount the detector using double-sided tape, and test it for both detector coverage and RF range from the desired location before mounting it permanently.
- Mount the detector where an intruder will most likely cross through the coverage pattern.
- Do not mount in areas with large metallic surfaces such as heating ducts or electrical wiring which may inhibit the sensor’s RF signals from reaching the control panel receiver.
- Do not mount the detector outdoors or where direct sunlight can reach it.
- In pet immune applications, do not mount where pets can climb because the upper areas are not immune to pets.

Notice
Optional mounting brackets can reduce the range and increase dead zone areas. Do not use brackets in pet immune applications.

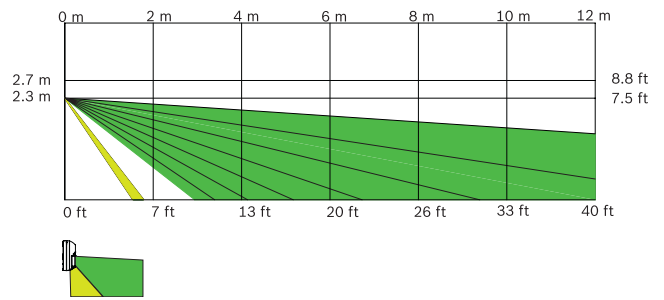
Battery Recommendations

The following battery types are recommended for correct operation of your detector: Duracell DL123A, Energizer EL123AP, or Panasonic CR123A.

Coverage



Top View Broad: 12 m x 12 m



Side View Broad: 12 m x 12 m

Technical specifications

Environmental Considerations

Complies with EN50131 Environmental Class II, Security Grade 2

Relative Humidity: Up to 95%, non-condensing

Temperature (operating): 0°C to +49°C

Mechanical Properties

Dimensions: 11.1 cm x 6.0 cm x 4.3 cm

Power Requirements

Batteries: Two 3 VDC Lithium batteries.

Battery Life: Approximately 5 years under normal operating conditions with the recommended battery types.

Transmission Characteristics

Frequency: 433.42 MHz

Maximum RF Power: less than 10 mW

Ordering information

RF940E Wireless PIR Detector

A high performance PIR motion sensor that uses advanced signal processing to provide outstanding catch performance
Order number **RF940E**

Accessories

Swiveling B335-3 low-profile mount

Swiveling, low-profile, plastic mount for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°. Available in triple packs.

Order number **B335-3**

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