



RF940E Wireless PIR Detector



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.

Note Actual acceptable transmitter range should be verified for each installation.

Certifications and Approvals

Listings and Approvals:	CE 0165
Complies with:	EN50131-1 grade 2, EN 300683, EN300220, and 89/336/EEC

Installation/Configuration Notes

Compatibility Information

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

Receivers

RF3212E
 RF3213E
 RF3222E
 RF3227E
 RF3228E
 RF3249E

Control Panels

Solution Ultima 844, 862, and 880 control panels, CC488 control panels
 VR-8 control panels
 DS7400XiV4 control panels
 DS7240, CC7240-A Solution 40 control panel
 Marise control panels
 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.

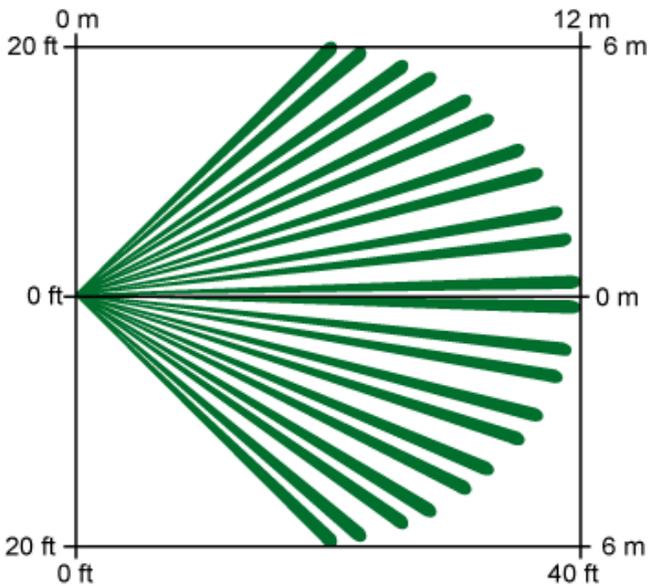
- Do not mount the detector outdoors or where direct sunlight can reach it.
- In pet immune applications, do not mount where pets can climb because the upper areas are not immune to pets.

Note 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: 7.6 cm x 5.7 cm x 3.8 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 RF940E

Hardware Accessories

B335-3 Low-profile Swivel-mount Bracket B335-3

Plastic, swivel, low profile bracket for walls. The vertical pivot range is +10° to -20°; the horizontal pivot range is ±25°. Shipped in packages of three.

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