

RF835E Wireless PIR/Microwave Intrusion Detector with Pet Immunity Installation Instructions

1.0 Overview

The RF835E wireless detector uses passive infraRed (PIR) technology, microwave (MW) technology, and artificial intelligence to detect motion. The RF835E may be installed to provide immunity to false alarms caused by pets. Recommended limits are a dog up to 100 lbs. (45 kg), 2 dogs up to 60 lbs. (27 kg) combined weight, or up to 10 cats. An integral RF transmitter sends alarm, low battery, tamper and routine supervisory signals to the control panel.

2.0 Specifications

General

- Dimensions (H x W x D): 5 in. x 2.8 in. x 2.5 in. (12.7 cm x 7.2 cm x 6.2 cm)
- Power supplied by four 1.5 V AA Alkaline batteries.
Recommended Batteries: Panasonic AM-3
Duracell MN1500 or PC1500
Energizer E91
- Typical current draw is 100 μ A with the LED disabled. The LED is automatically disabled except during walk tests.
- Typical battery life is two to three years.
- Operating temperature range of +32°F to +120°F (0°C to +49°C).
- Microwave Frequency: RF835E 10.525 GHz
RF835E-C 10.588 GHz
- RF Transmit Frequency: 433 MHz
- Options: B335 Low Profile Swivel Mount Bracket (use of this bracket may reduce range and dead zone areas).
- Patents: This product is covered by one or more of the following U.S. Patents: #4,660,024, #4,764,755, #5,077,548, #5,208,567, #5,262,783, and #5,450,062. Other patents pending.

TriTech Motion Sensor

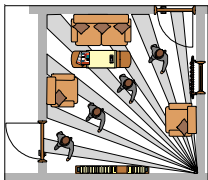
- Coverage area 35 ft. by 35 ft. (10.7 m by 10.7 m).
- Internal coverage pointability -4° to -10° Vertical and \pm 10° Horizontal.
- Field selectable sensitivity options of Standard and the more sensitive setting of Intermediate.
- Three minute transmitter lockout time after alarm extends battery life.
- Timed Walk Test Mode automatically disables LED after setup to extend battery life.
- Cover activated Tamper indication. Optional wall-activated Tamper is included.

RF Transmitter

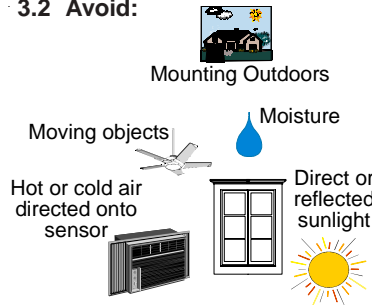
- Integral RF transmitter capable of transmitting up to 500 ft. (150 m) in open air. (Actual acceptable transmitter range should be verified for each installation). In normal operation, it is recommended that the RF835 be within 100 ft. (30 m) of the receiver.
- Transmits low battery reports and tamper reports to the control panel.
- Transmits supervisory signal to the control panel every 13 minutes.

3.0 Installation

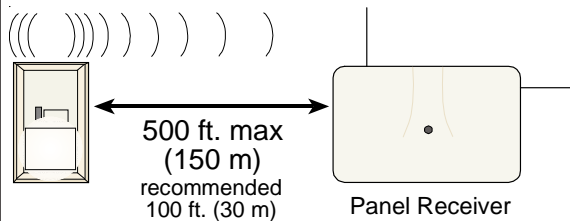
3.1 Select a mounting location. Mount the sensor where an intruder will most likely cross through the coverage pattern.



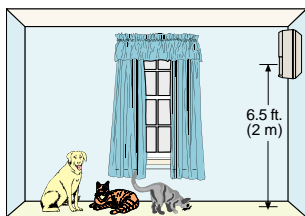
3.2 Avoid:



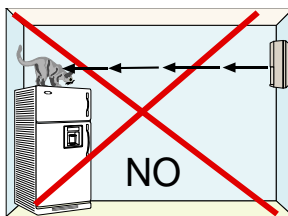
3.3 Observe Receiver Range.



3.4 Observe the Pet Immunity mounting recommendations.



Mount the detector 6.5 ft. (2 m) above the floor

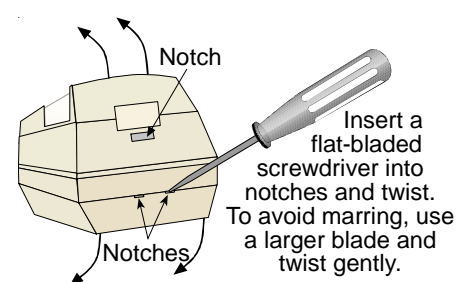


Don't point where pets can climb



Pet Immune Area
Note: The upper areas are not pet immune.

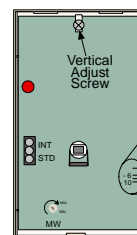
3.5 Remove the cover and the base.



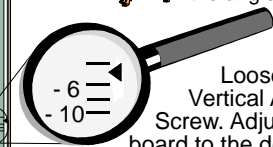
3.6 Choose mounting height and desired range, and set the vertical angle.

Mounting Height	Range	
	20 ft. (6.1 m)	35 ft. (10.7 m)
6.5 ft. (2 m)	-7°	-5°
7.0 ft. (2.1 m)	-9°	-6°
8.0 ft. (2.4 m)	-10°	-7°

NOTE: The mounting height must be 6.5 ft. (2 m) and the vertical angle must be set at -5° for installations containing pets.



For pet immune applications, adjust the angle to -5.0.



Loosen the Vertical Adjust Screw. Adjust the board to the desired angle.

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