

RF835 Series Wireless TriTech PIR/Microwave Intrusion Detector with Pet Immunity



en Installation Guide

Notice:

Product must be installed in accordance with NFPA70, Local Authorities Having Jurisdiction (AHJ's) and all local codes.

Batteries must not be disposed of in household waste. Dispose batteries at suitable collection points. For further information refer to <http://boschsecurity.com/standards>.

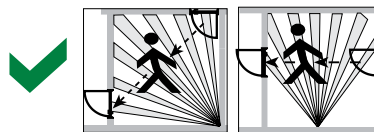
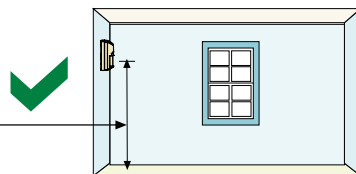
Reading Bosch Security Systems, Inc. Product Date Codes

For Product Date Code information, refer to the Bosch Security Systems, Inc. Web site at: <http://www.boschsecurity.com/datecodes/>.

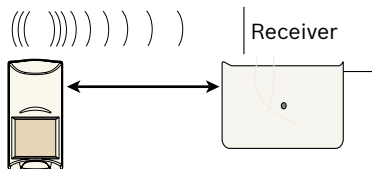
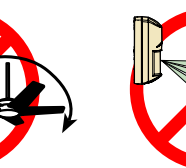
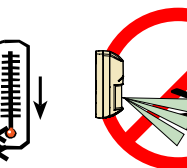
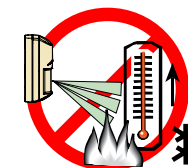
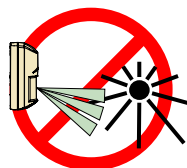
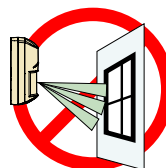
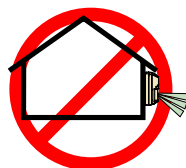
Optional Brackets:

B328, B335, B338, B800

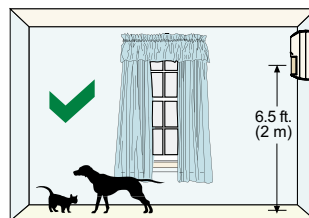
2.0 m - 2.4 m
(6.5 ft - 8 ft)
Recommended:
2.0 m (6.5 ft)



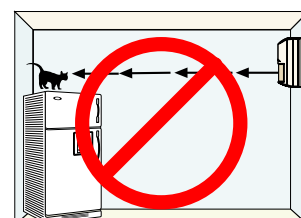
Pet Friendly
≤ 45 kg (100 lb)
Not tested by UL



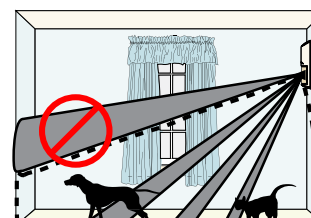
Receiver Range: 150 m (500 ft)
Recommended: 30 m (100 ft)



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



Do not point where
pets can climb.



The upper areas are
not pet immune.

Specifications

General

- Dimensions (HxWxD): 13.9 cm x 7.2 cm x 6.9 cm (5.4 in. x 2.8 in. x 2.7 in.)
- Power supplied by four 1.5V AA Alkaline Batteries. Recommended Batteries: Panasonic AM-3, Duracell MN1500, or PC1500 Energizer E91.
- Typical current draw is 100 µA 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 0°C to +49°C (+32°F to +120°F).
- Relative humidity range of 0% to 95% (0% to 85% UL installation).
- Microwave Frequency: 10.525 GHz.
- RF Transmit Frequency: 304.00 MHz.

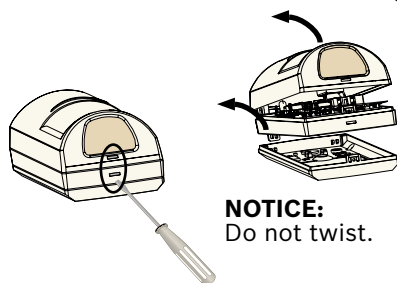
TriTech Motion Sensor

- Coverage area 10.7 m by 10.7 m (35 ft by 35 ft).
- Internal coverage pointability -4° to -10° Vertical.
- 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 150 m (500 ft) in open air. (Actual acceptable transmitter range should be verified for each installation). In normal operation, it is recommended that the RF835 be within 30 m (100 ft) of the receiver.
- Transmits low battery reports and tamper reports to the control panel.
- Transmits supervisory signal to the control panel every 65 minutes.
- UL Listed for residential use only.

- 1 Installation** Gently insert a flat-bladed screwdriver into notch for the section you wish to remove, and then lift on the section to unhinge.



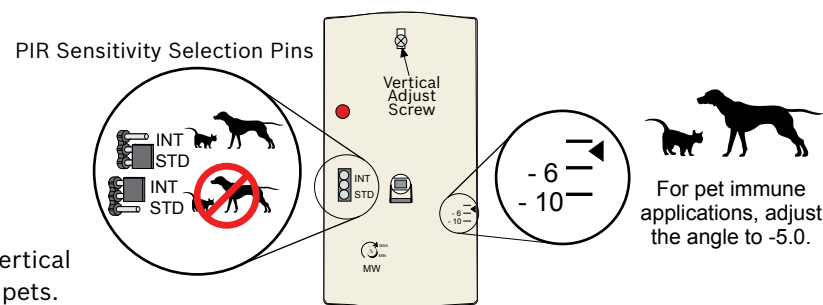
- 2 Height and Adjustment** Loosen the Vertical Adjust Screw. Adjust the board to the desired angle. Choose mounting height and desired range and set the vertical angle.

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

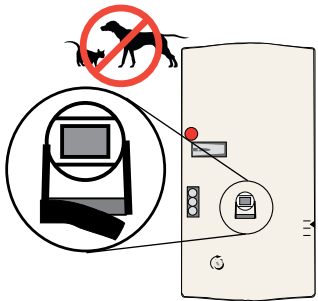
NOTICE:

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

- 3 Set the PIR Sensitivity** Vertical adjusting screw must be securely tightened after setting the angle.



4 Uncover the Look Down Lens

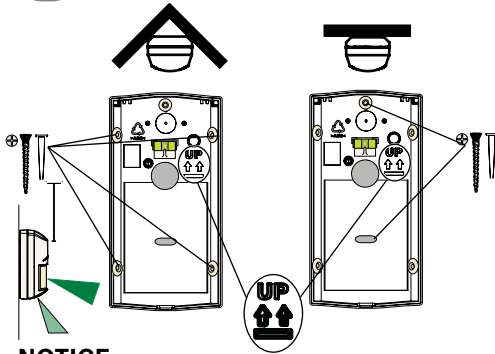


NOTICE:
In non-pet applications only, If look-down is desired, peel away the look-down mask. Do not remove the clear plastic lens.

LED Conditions:

LED Condition	Cause
Steady Red	Unit Alarm
Steady Yellow	Microwave Activation (Walk Test)
Steady Green	PIR Activation (Walk Test)
Flashing Red	Warm-Up Period After Power-Up
Flashing Red (four-pulse sequence)	Microwave or PIR Failure Replace Unit

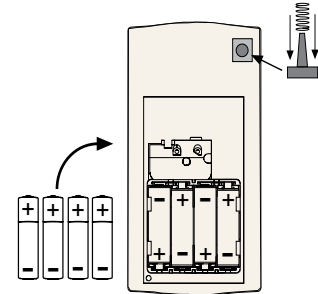
5 Mount the Detector Base



NOTICE:
The Wall Tamper cannot be used in corner mount installations or when using the swivel bracket.

6 Install the Battery

The batteries are not installed in the detector when it is shipped. When installing the batteries it is necessary to observe proper polarity or the sensor may not function.



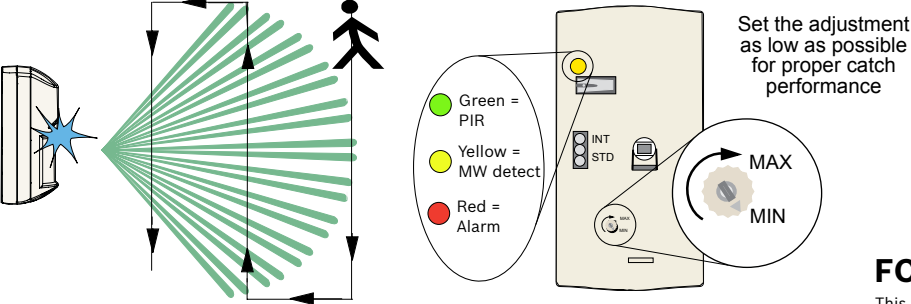
If the Wall Tamper is desired, gently press the spring onto the tapered shaft. Do not force it down onto the shaft. As you place the unit onto its base, be sure the spring extends through the knock-out to the wall.

When the batteries are installed, wait at least 5 min before activating the Walk Test Mode. The LED will stop flashing when the detector is ready to test (the sensor requires "lack of motion" to stabilize on startup). Refer to LED Conditions chart.

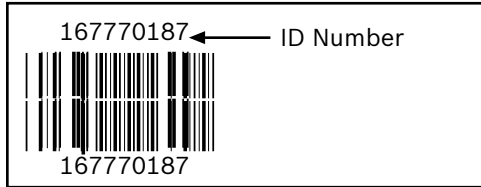
NOTICE:
Insert security screws after testing to prevent covers from separating.

7 Walk Test the Detector

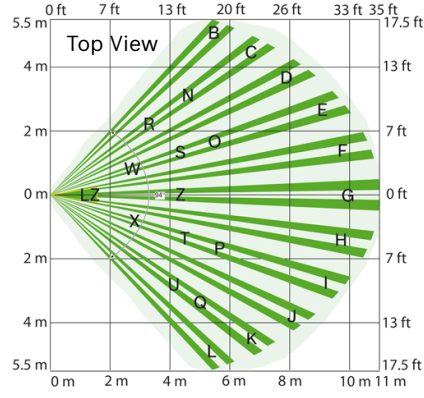
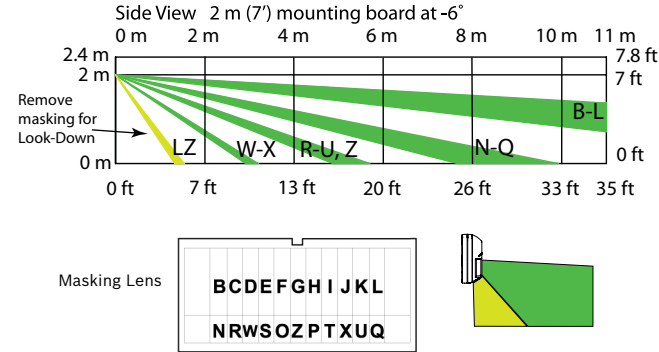
Perform this test at the time of installation and monthly thereafter. To ensure continual daily operation, the end user should be instructed to walk through the far end of the coverage pattern. This ensures an alarm output prior to arming the system. Remove and replace the cover to start a 90-sec Walk Test Mode. During this Test Mode, any activity in the sensor's coverage pattern will cause a transmitted alarm and LED activation. Each alarm will also extend the Test Mode. Watch for the yellow LED to indicate the edges of the Microwave pattern. Adjust as necessary.



8 Program the Control Panel
There is a two-part ID sticker located on the housing of the RF835. You will need the number on this sticker to program the Detector into the control panel. Refer to your panel's Programming Guide for programming information on wireless type devices.



Coverage Patterns



NOTICE:
Masking only eliminates the PIR portion of the coverage and has no effect on the Microwave pattern.

NOTICE:
The protective zone is the area where the PIR and Microwave technologies overlap.

FCC and IC Compliance Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation. This device complies with Industry Canada licence-exempt RSS standard(s).

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente.

