# RF835E Series Wireless TriTech PIR/Microwave Intrusion Detector with Pet Immunity

BOSCH

**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.

**Optional Bracket:**
B328, B335, B338, B800

2.0 m - 2.4 m (6.5 ft - 8 ft) Recommended: 2,2 m (7.5 ft)

Pet Friendly 1 dog ≤ 45 kg (100 lb), 2 dogs ≤ 27 kg (60 kg), or up to 10 cats

Receiver

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

6.5 ft. (2 m)

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% (non-condensing).
- Microwave Frequency: RF835E is 10.525 GHz, RF835E-C is 10.588 GHz
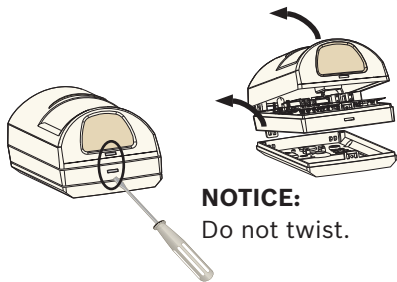- RF Transmit Frequency: 433.0 MHz.

### 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 13 minutes.

**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.
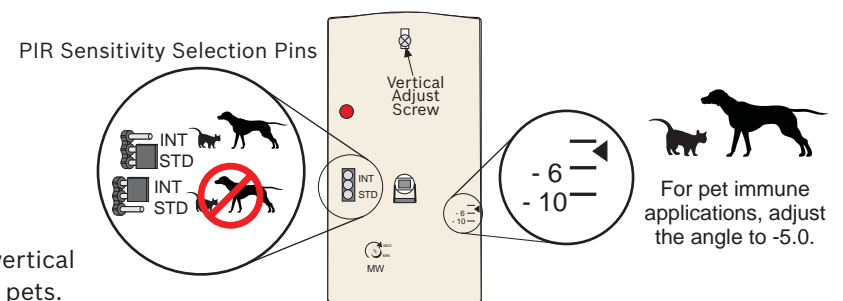
**NOTICE:**
Do not twist.

**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 Senstivity** Vertical adjusing screw must be securely tightened after setting the angle.

PIR Sensitivity Selection Pins

Vertical Adjust Screw

INT STD

INT STD

- 6 - 10

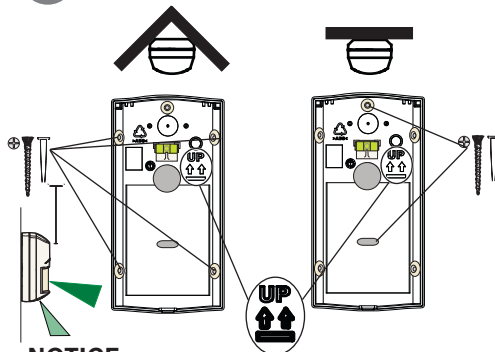For pet immune applications, adjust the angle to -5.0.

MW

## 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.
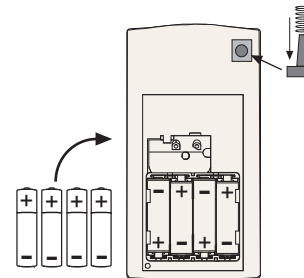
## 5 Mount the Detector Base

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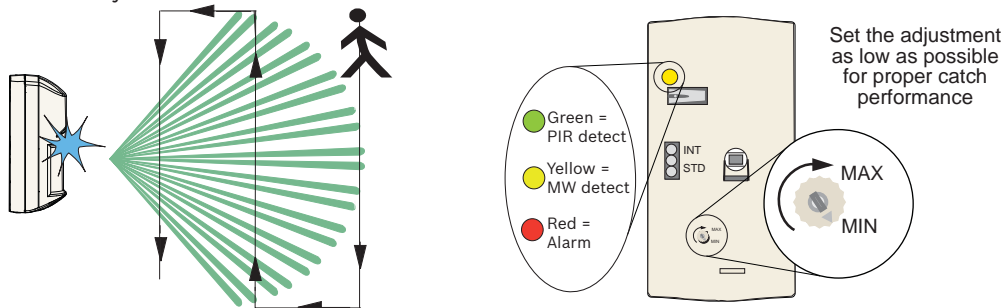
NOTICE:
Insert security screws after testing to prevent covers from separating.

## 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 |

## 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.

Green = PIR detect
Yellow = MW detect
Red = Alarm

Set the adjustment as low as possible for proper catch performance
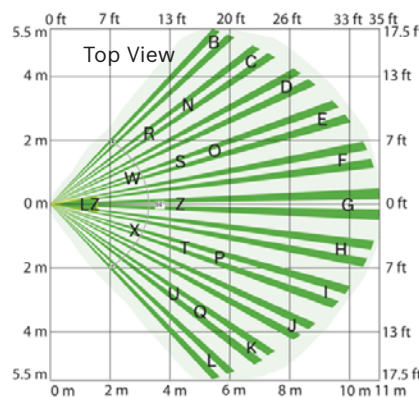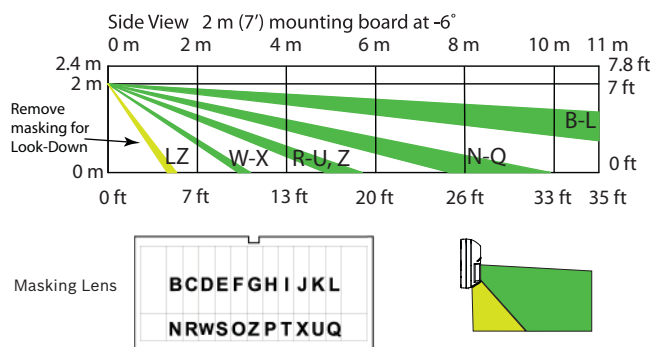
INT
STD

MAX
MIN

## 8 Program the control panel.

There is a two-part ID sticker located on the housing of the RF835E. 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.

167770187 ← ID Number

167770187

## Coverage Patterns

Side View   2 m (7') mounting board at -6°

Remove masking for Look-Down

LZ   W-X   R-U, Z   N-Q   B-L

Masking Lens

BCDEFGHIJKL
NRWSOZPTXUQ

Top View

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.

## Countries of Intended Use:

These poducts are intended for use in the following countries within the European Union and in countries outside the European Union:

**RF835E** Austria, Belgium, Denmark, Finland, Greece, Luxembourg, Netherlands, Norway, Spain, and Sweden.

**RF835E-C** United Kingdom, Ireland, and France.