

# RESOLUTION



## RE110P - RE610P PIR Motion Sensor

**CryptiX PIR Motion Sensor** alarms when motion is sensed or when the external contact is opened. It is battery powered and requires no installation tools. A Pyroflex™ sensor with HighBar™ signal processing allows for industry-leading pet immunity and catch performance.

### Features

- Industry-leading pet immunity and catch performance
- Supports both motion zone and an external contact zone
- Mountable on walls or in corners
- 5 year warranty

**Enroll** by placing the panel into wireless enrollment mode and then sending an enrollment signal from the motion sensor. Alternatively, the motion sensor can be enrolled by scanning its bar code using the HeliLink app or by entering its 8-character serial number on the interactive service provider's web portal.

#### Options for sending an Enrollment Signal

- Remove the battery tab, OR
- Remove the cover to trip tamper

**Install** using the included 3M VHB® tape to adhere the motion sensor on a wall or in a corner. The tape should be applied to the **back** when wall mounting or to the **back bevels** when corner mounting. Alternatively, screw mounting can be done by punching out the screw mounting holes.

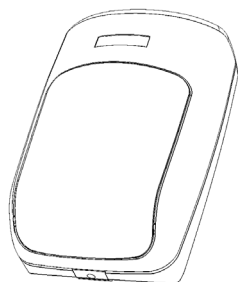
#### Installation Tips

- Mount 7.5 to 9.5 feet from the floor for an optimal balance between catch performance and pet immunity.
- Remove the cover and circuit board before trying to punch out the screw mounting holes.
- Ensure the bug foam stays intact and snug around the IR sensing element when re-installing the circuit board.

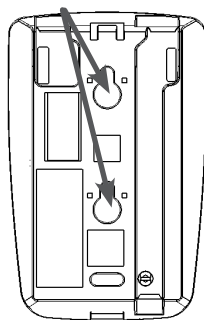
#### External Contact (not evaluated by ETL)

- Use a **normally-closed** contact because the motion sensor will transmit an alarm when it sees the external contact **open**.
- Do not use end-of-line resistors.

CE installations must use a cover-securing screw.



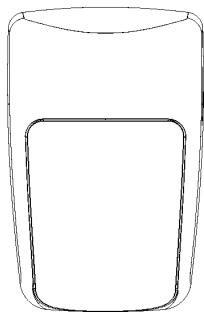
Mounting Screw Holes



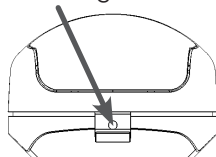
Ceiling



Floor



Cover-Securing Screw Hole



Use the Helix installation guide to verify proper system setup.

## Pro Tips

**Walk test mode** is entered by pressing the motion sensor's tamper button. The walk test lasts three minutes.

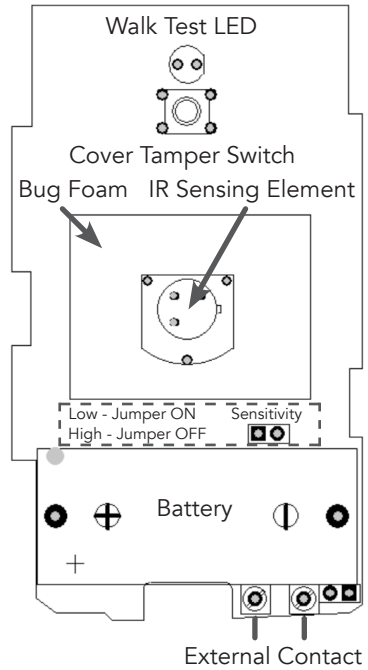
### Walk Test Operation

- The walk test LED turns on when motion is sensed.
- The motion sensor performs a re-calibration after each activation. The re-calibration takes about 30 seconds. The sensor will NOT sense motion during the re-calibration.
- Wireless transmissions are sent for each detection, so walk test mode can also be used to test the panel.

**3M VHB Tape** works great if the surface is properly prepared and firm pressure is applied for over 10 seconds.

### Surface Preparation

- Clean the surface
- Ensure the mounting surface temperature is above 50 °F

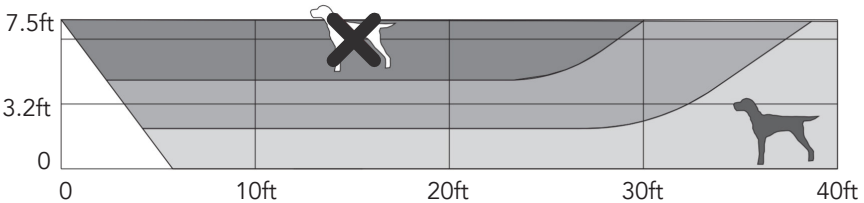


**Motion lockout** is active for three minutes after a motion event is detected. During the motion lockout period, motion events will be ignored.

**Motion sensitivity** can be adjusted by the sensitivity jumper on the circuit board.

- Jumper Installed (lower sensitivity): Detects person in 3 to 5 steps. Increases pet immunity. Usually for security applications.
- Jumper NOT Installed (higher sensitivity): Detects person in 2 to 4 steps. Usually for occupancy applications.

**Pet immunity** is optimized when the motion sensor is mounted at 7.5 to 9.5 feet high and aimed **away** from house features that could allow pets to be high in the detection field (e.g. stairs, counter tops, tall furniture).



**Motion catch performance** is best when the motion sensor is positioned so a person would typically walk across the front of the motion sensor instead of directly toward the motion sensor.

### Motion Detection Tips

- Provide a clear line-of-sight to the monitored area and remember that glass blocks infrared energy (PIR = Passive InfraRed).
- Aim away from windows and sunlight.
- Aim away from air conditioners, heaters or heating/cooling vents.

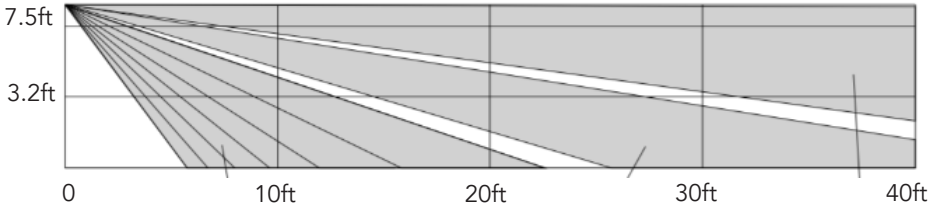
## Accessories

**Gimbal mount** (RE019 and RE019-10) allows the motion sensor direction to be adjusted *after* mounting on a wall.

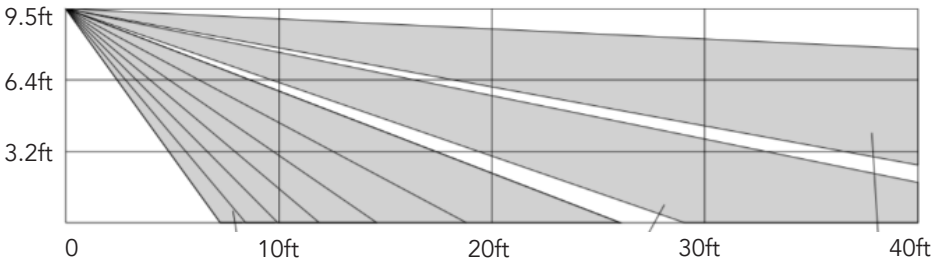
**Horizontal beam lens** (RE020) has less *look-down* which results in increased pet immunity.

## Specifications

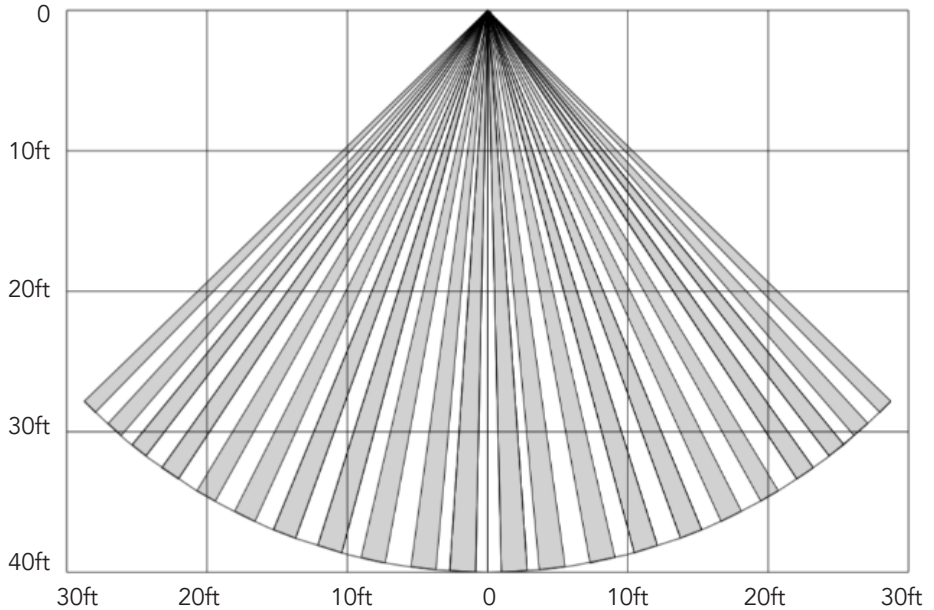
### Side field of view for a mounting height of 7.5 feet



### Side field of view for a mounting height of 9.5 feet



### Top field of view



## Specifications

Physical	
Housing Dimensions	3.50 x 2.40 x 1.70 inches (8.9 x 6.1 x 4.3 cm)
Weight with Battery	3.2 ounces (91 grams)
Mounting Fastener	3M VHB (Very High Bond) Tape or Screws (both provided)
Environmental	
Operating Temperature	32 to 120 °F (0 to 49 °C)
Maximum Humidity	85% non-condensing relative humidity
Sensor Specifications	
Frequency	433.92 MHz
Pet Immunity	Two 60-pound dogs or one 85-pound dog
Replacement Battery	One Panasonic CR132A
Nominal Battery Life	6 to 8 years
Battery Voltage	3.0 VDC (Nominal), 2.2 VDC (Low)
Current Draw	30 mA (Maximum), 20 uA (Quiescent)
Optimal Mounting Height	7.5 to 9.5 feet (2.3 to 3.0 m)
Transmitted Indications	Cover Tamper, Low Battery, Supervision
Certification	
RE610P	UL639, ULC-S309-03, ETL, FCC, IC
RE610P-CE	EN 50131-2-2, EN 60950-1, EN 300 220, EN 301 489, CE Security Grade 1, CE Environmental Class 2, RCM

*Specifications subject to change without notice*

### WARRANTY

Resolution Products, Inc. will replace products that are defective in their first five (5) years.

### IC NOTICE

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

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.

IC: 8310A-RE310P

### FCC 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.
- (2) This device must accept any interference that may be received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the Resolution Products, Inc. could void the user's authority to operate this equipment.

FCC ID: U5X-RE310P

### CE DECLARATION OF CONFORMITY

Hereby, Resolution Products, Inc. declares that this RE610P-CE is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC.

*(This declaration can be translated to other languages via a myriad of translation tools found on the Internet.)*