

clare™ CS-PIR-10 Pet Immune Motion Sensor



The CS-PIR-10 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

- Narrow angle detection
- Detection range adjustability
- IP 55 rated weatherproof enclosure

Enroll by placing the panel into wireless enrollment mode and sending an enrollment signal from the motion sensor. Alternatively, the motion sensor can be enrolled by scanning its bar code using the Install Assist App.

Sending an Enrollment Signal

- Remove the battery tab and trip the 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.

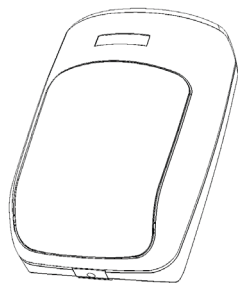
Installation Tips

- 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.

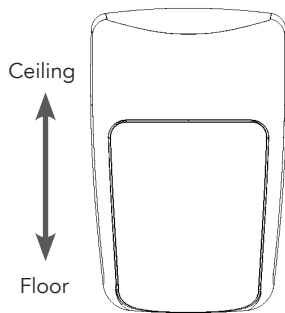
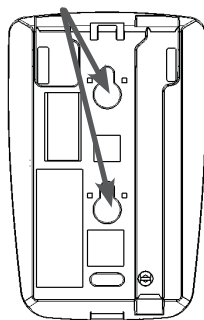
External Contact (not evaluated by ETL)

- 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.

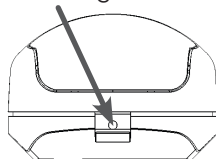
CE installations must use a cover-securing screw.



Mounting Screw Holes



Cover-Securing Screw Hole



Use the panel 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

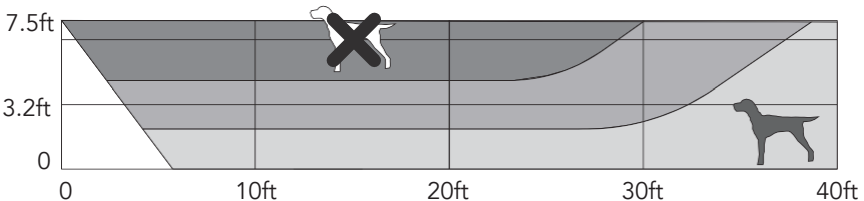
- Clean the surface
- Ensure the mounting surface temperature is above 50 °F

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.

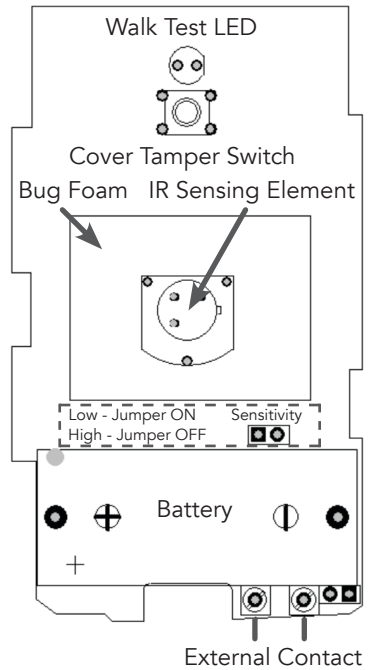
Pet immunity is optimized when the motion sensor is mounted at 7.5 to 9.5 feet high and aimed **away** from house features that could allow pets to be high in the detection field (e.g. stairs, counter tops, tall furniture).



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.

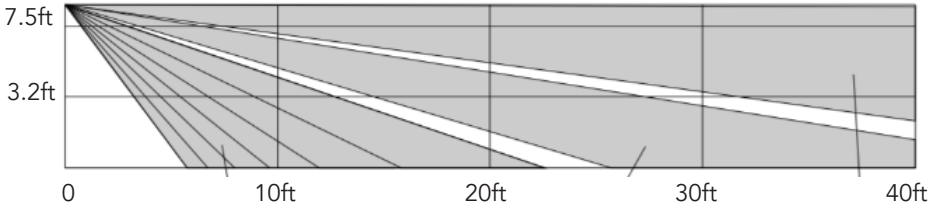
Motion Detection Tips

- 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.

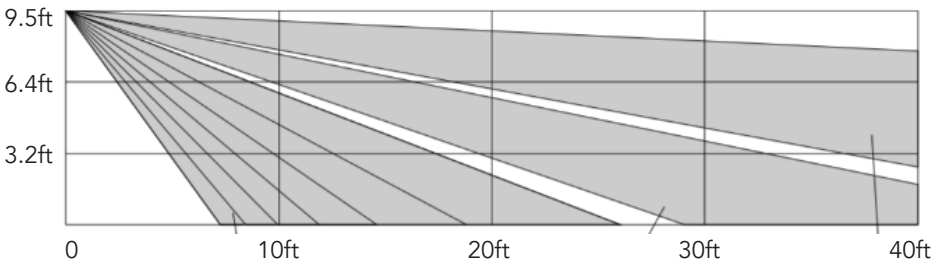


Specifications

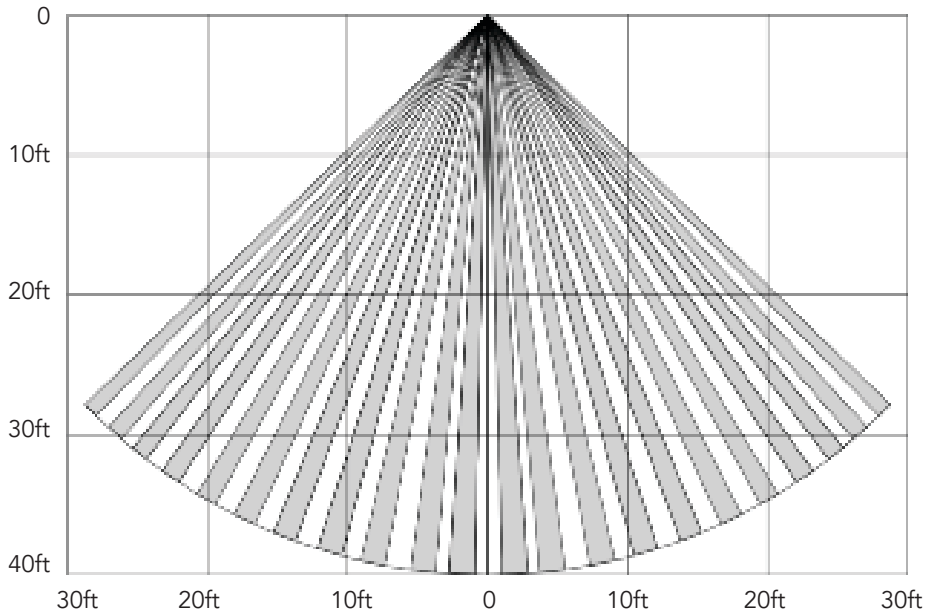
Side field of view for a mounting height of 7.5 feet



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	
RE610 P	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

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Original document below

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