alula ™ RE610P-OS Indoor Motion Sensor -Pet Immune Occupancy, Connect+™ Encrypted

Occupancy 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 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 Connect+ Installer 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 and cover to trip tamper
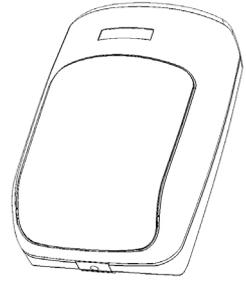
Mounting Screw Holes

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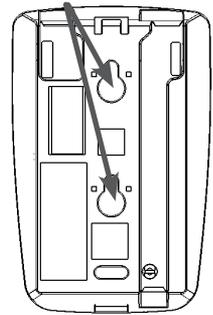
> ### Installation Tips
> - Mount 7.5 to 9.5 feet from the floor for an optimal balance between catch performance and pet immunity.
> - Remove the cover and circuit board before trying to punch out the screw mounting holes.
> - Ensure the bug foam stays intact and snug around the IR sensing element when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

Ceiling

Floor

> ### External Contact
> - Use a **normally-closed** contact because the motion sensor will transmit an alarm when it sees the external contact **open**.
> - When enrolling an external contact, use the Add New Zone on Sensor option using the installer app or the interactive service provider's web portal.
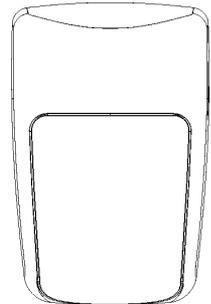> - Do not use end-of-line resistors.

Use the panel's 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.
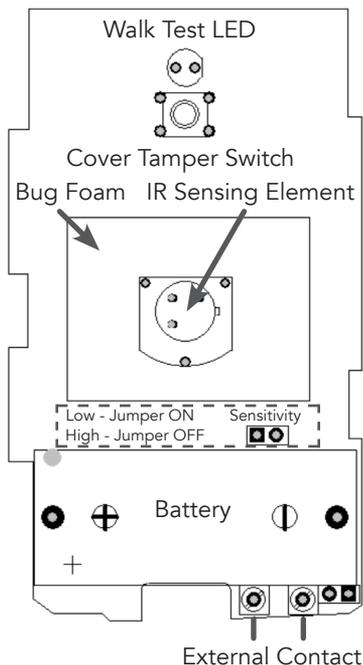
Walk Test Operation
- The walk test LED turns on when motion is sensed.
- The motion sensor performs a re-calibration after each activation. The re-calibration takes about 30 seconds. The sensor will NOT sense motion during the re-calibration.
- Wireless transmissions are sent for each detection, so 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

Walk Test LED

Cover Tamper Switch

Bug Foam   IR Sensing Element

Low - Jumper ON   Sensitivity
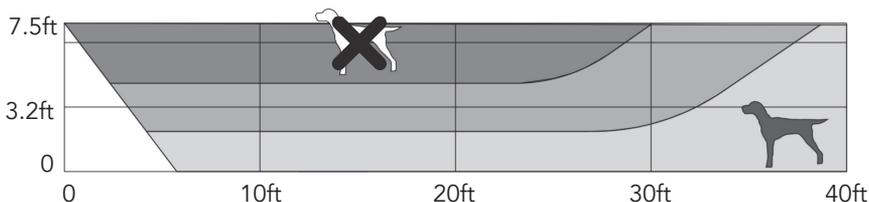High - Jumper OFF

Battery

+

External Contact

Motion lockout is active for 30 seconds 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, **default setting**): 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).

7.5ft

3.2ft

0

0   10ft   20ft   30ft   40ft

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.
- Aim away from windows and sunlight.
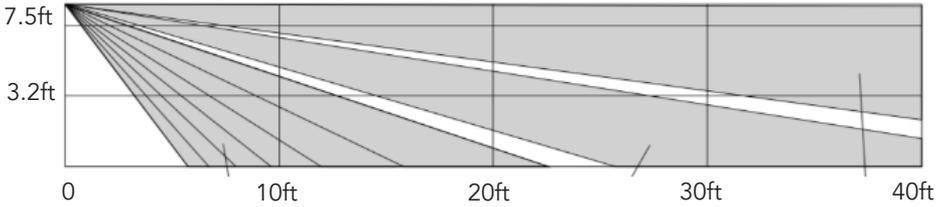- Aim away from air conditioners, heaters or heating/cooling vents.

Accessories

Gimbal mount (RE019 and RE019-10) allows the motion sensor direction to be adjusted *after* mounting on a wall.
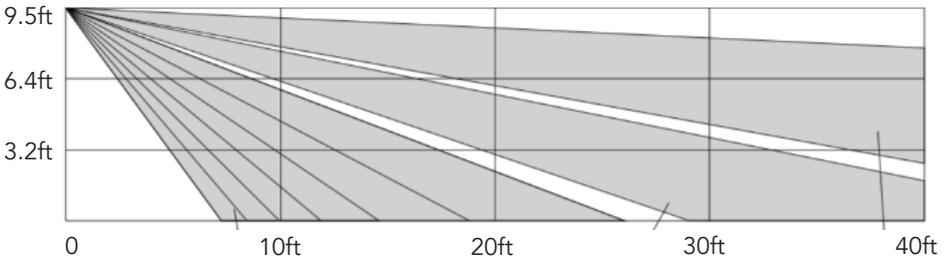
Horizontal beam lens (RE020) has less **look-down** which results in increased pet immunity.
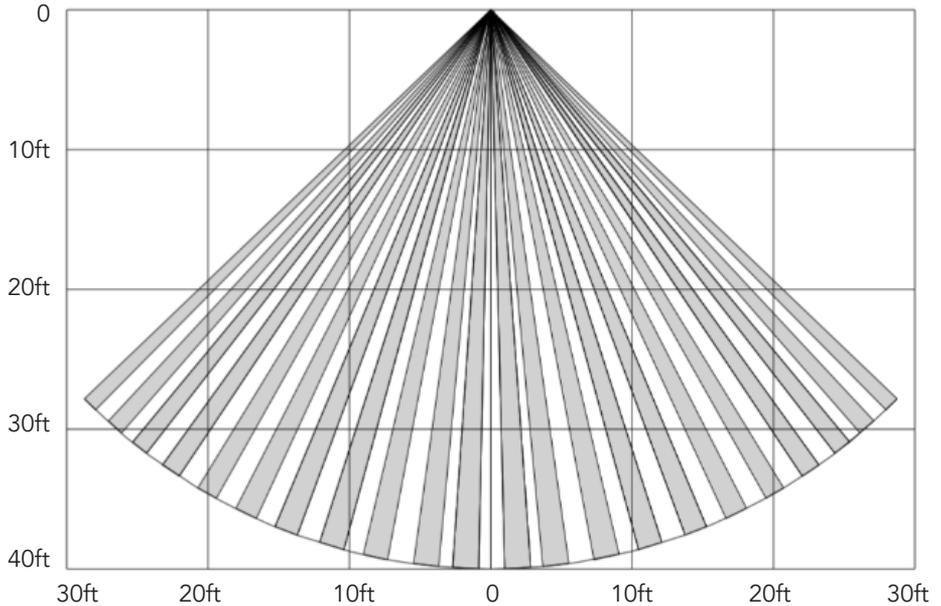
Specifications

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™ 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® CR123A
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
Maximum Wire Length for External Contact	7.5 feet

Certification	
RE610P-OS	FCC, IC

Specifications subject to change without notice

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 Alula could void the user's authority to operate this equipment.

FCC ID: U5X-RE310P

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CE DECLARATION OF CONFORMITY

Hereby, Alula declares that this RE610P-OS 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.)