alula™ Indoor Motion Sensor

Resolution Compatibles

Indoor Motion Sensor alarms when motion is sensed. It is a commercial battery-powered wall mount sensor with an 85 degree detection range.

Features
- 85° detection range with 78 distinct detection zones
- Range up to 40 feet
- Selectable pulse count 2 or 4
- Designed for commercial applications
- 5 year warranty

Enroll all variants by entering their serial numbers into the security panel. Alternatively, the sensor can be enrolled in one of the following ways:

> **DSC®, Qolsys® and Interlogix®** variants are enrolled by placing the panel into enrollment mode, and then pulling the battery tab or tampering the device.

> **Honeywell® and 2GIG™** variants are enrolled by placing the panel into wireless enrollment mode and either removing the battery tab while holding the tamper, or by tripping the device three times. These sensors must be enrolled as a "Loop 1" sensor.

Install by screwing two #5 screws through the unit's mounting knockouts. Use 2 of the 3 mounting knockouts in the center of the unit's back to mount on a flat wall. Use 2 of the 4 corner knockouts to mount the unit in the corner of a room. Mount the sensor 5ft to 8 ft (1.5m-2.4m) high. Screw the #8 screw through the wall tamper knockout into the wall, ensuring that the wall tamper screw is attached to something solid. Tighten all screws until snug. Enroll the sensor using the instructions above. Close the cover and conduct a walk test. After testing, take the unit out of walk test mode and close the cover again. Finally, finish threading the white #4 screw until it is snug.

Mounting Tips
- Avoid direct sunlight
- Avoid facing directly to AC or heating vents
- Avoid vapor or high humidity
- Avoid curtains, screens, etc. from blocking detection
- Do **not** install outdoors
- Mounting height 5ft-8ft (1.5m-2.4m)

Use your panel's installation guide to verify proper system setup.
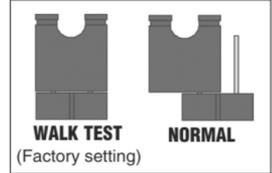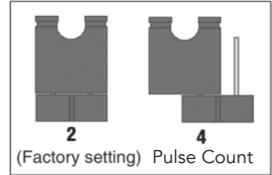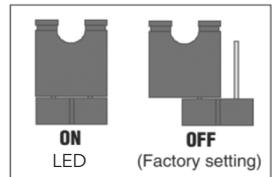
Sensor Functions

Alarm LED can be switched either "ON" or "OFF".

Pulse Count can be switched to either "2" or "4" pulse mode depending on the environmental conditions of the installation.
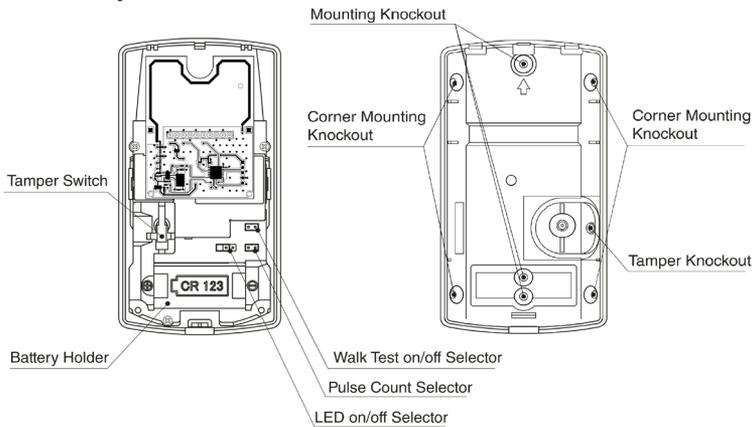
Pulse Count
- Select "2" for normal applications.
- Select "4" for use in areas where there may be movement by small animals or other objects, such as fax machines or curtains.

Walk Test Jumper puts sensor in *Walk Test Mode* when connected or *Normal Mode* when not connected. The LED will light up and an alarm will be sent whenever motion is detected if the unit is in Walk Test Mode. In Normal Mode, the unit will only send an alarm every 2 minutes, and the LED will only light up if the "LED ON" jumper is connected.
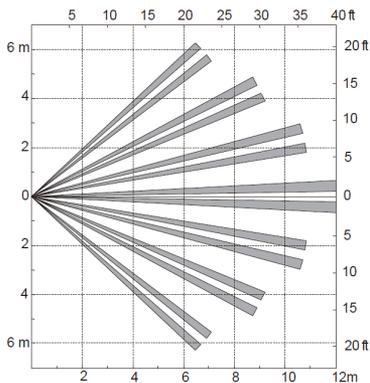
ON — LED
OFF (Factory setting)

2 (Factory setting) **4** Pulse Count

WALK TEST (Factory setting) **NORMAL**

Mounting and Jumper Locations

Mounting Knockout

Corner Mounting Knockout

Corner Mounting Knockout

Tamper Switch

Tamper Knockout

Battery Holder

CR 123

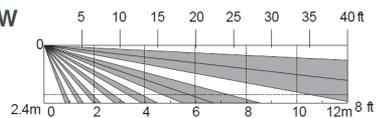Walk Test on/off Selector

Pulse Count Selector

LED on/off Selector

Detection Range

TOP VIEW

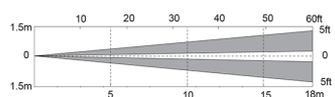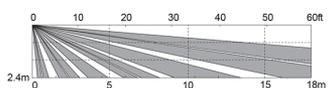**SIDE VIEW**

Long Range
Optional Lens: RE045
18 x 1.8m (60 x 6ft.)

■ TOP VIEW

■ SIDE VIEW

Troubleshooting

Problem	Probable Cause	Remedy
Alarm is not activated although someone is walking in detection area	Detection area is improper, battery is dead, Walk Test switch is OFF and 2 minute delay is active	Conduct a walk test, change the battery
Alarm is activated with nobody in the area	Moving object within detection area, temperature of object within area is changing rapidly	Remove the object from the detection area, remove the heat sources from the detection area or relocate the detector
LED does not light up at the time of the walk test	Walk test switch is OFF, battery is dead	Turn the walk test switch ON, change the battery
LED does not light up in normal operation	LED switch is OFF, battery is dead	Turn LED switch ON, change battery

Pro Tips

Save battery life by taking unit out of walk test mode after completing walk test. There is no 2 minute delay when in walk test mode. Leaving in walk test mode will severely decrease battery life.

Sudden light changes will cause the sensor to trip. Ensure that the detector is not placed near windows.

Sudden temperature changes will cause the sensor to trip. Ensure the motion detector is not placed near heating and cooling vents.

High humidity environments can cause condensation of the detection lens. Ensure the motion detector is not installed in these kinds of environments.

Protective film should be removed from the lens after installation.

Sensor specifications: The table below displays the functional frequencies of each compatible sensor.

Part Number	Frequency	Compatible
RE161	319.5 MHz	Interlogix/Qolsys
RE261	345 MHz	Honeywell
RE261T	345 MHz	2GIG
RE361	433.92 MHz	DSC

Specifications

Physical	
Housing Dimensions	4.53 x 2.44 x 1.97 inches (115 x 62 x 50 mm)
Weight with Battery	3.9oz (110.6 g)
Mounting Fasteners	(2) #5 screws, (1) #8 screw, (1) square nut installed in unit, (1) #4 screw (All provided)

Environmental	
Operating Temperature	32°F to 120°F (0°C to 49°C)
Maximum Humidity	85% non-condensing relative humidity

Sensor Specifications	
Frequencies	433.92 MHz, 319.5 MHz, 345 MHz
Replacement Battery	One Panasonic CR123A Lithium Battery
Nominal Battery Life	3 years (assuming 720 trips/day), 7 years (assuming 240 trips/day)
Battery Voltage	3.0 VDC (Nominal), 2.7 VDC (Low)
Current Draw	21 mA (Maximum), 4.7 uA (Standby), 30 mA (Max in walk test)
Detection Range	Up to 40 Feet (12 m)
Detectable Speed	1 to 5 feet per second (0.3 to 1.5 meters per second)
Transmitted Indications	Motion, Tamper (Cover/Wall), Low Battery, Supervision

Certification	
RE161, RE261, RE261T, RE361	UL639, ULC-S306-03, ETL, 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-RE161, 8310A-RE261, 8310A-RE361

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-RE161, U5X-RE261, U5X-RE361