ELK-319PIRC Wireless Ceiling Mount PIR Sensor

Description

The ELK-319PIRC is a Supervised, Wireless 360° degree PIR (passive infrared) Motion Sensor designed specifically for ceiling mount applications.

When motion is sensed in the field of view the sensor will transmit a violation (trip) signal to the panel. Additionally transmitted signals include: tamper, hourly supervisory, and low battery (as needed). The sensor is powered by two (2) replaceable 3VDC lithium batteries.

This sensor is compatible with Elk's 319MHz Receivers/Panels as well as many other panels that operate on the 319.5MHz Frequency and adhere to the ITI/Interlogix protocol.

Specifications

RF frequency: 319.5 MHz

Compatibility: ELK-319 Receivers/Panels & other panels that operate on the 319.5MHz Freq. and adhere to the ITI/Interlogix protocol

Battery type: Two (2) 3VDC lithium battery (Panasonic CR123)

Tamper Switch: Sealed dome-contact

Sensitivity: Selectable 2 event or 3 event

Operating Temp: -40 to 131°F (0 to 49°C)

Storage Temp: -30 to 140°F (-34 to 60°C)

Max. Humidity: 90% Relative Humidity non-condensing

Dimensions 2.95" Diameter x 1.39" depth

Programming (Enrollment)

The following is a general guideline for programming (enrolling) a sensor into the receiver or panel. For more extensive instructions please refer to the receiver or panel instructions.

1. Place the panel into the Program mode.
2. Proceed to the WIRELESS SETUP menu.
3. Select the appropriate zone/sensor location number.
4. When the panel prompts to trip the sensor do the following:
   - Separate sensor from the mounting base
   - Remove battery pull tabs (if present) to power the sensor
   - The panel should acknowledge sensor has been learned by a display on the keypad and/or audio alert (depending on the panel). If enrollment does not succeed repeat the process by removing and reinstalling the battery OR try pressing and releasing the tamper plunger.
5. For additional sensors of this type repeat the above process. Proceed to the zone programming to assign each sensor's zone definition.

IMPORTANT: Set the Zone Loop as "1" for this sensor.

6. Exit the panel Program mode when finished.

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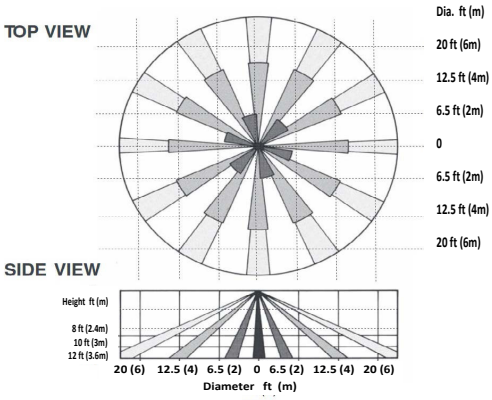
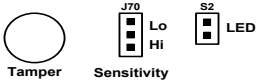
Coverage Pattern and Mounting Height

Coverage pattern is dependent on the mounting height of the sensor. If required areas can be masked off to prevent unwanted detection in the 360° field of vision.

Mounting Height	Detection Area
8 ft	14 ft
10 ft	25 ft
12 ft	40 ft





Lo Sensitivity - 3 event - place jumper on top two pins

Hi Sensitivity - 2 event - place jumper on bottom two pins

LED - jumper installed across pins for visual walk test

Installation Guidelines

Sensor is designed for ceiling mount applications that provide a 360° field of view.

- Do not install on a sloped ceiling/surface.
- Maximum mounting height is 12ft.
- Do not mount outdoors

- Avoid areas with pets
- Do not mount near ceiling fans or heating ducts• Do not mount on metal surfaces as this reduces range.
- Avoid sensor looking directly at window or direct sunlight.
- Install sensor within 100 ft. of the receiver or panel.
- Surface must be solid with no vibration or movement.

Mounting

- Twist sensor counter clockwise to remove from mounting base.
- Attach base to ceiling with screws and anchors.
- Twist sensor on base. Use caution to avoid bending tamper plunger spring.

Operation and Testing [3 minute lockout]

To conserve battery life sensor has a 3-minute sleep mode lockout between motion detections and transmission.

For walk testing the 3-minute lockout may be avoided by removing sensor from its base and tripping the tamper. Sensor will now detect and transmit to receiver with each motion detect.

Visual LED may be enabled by placing jumper across LED pins.

Immediately place sensor back onto its base and walk test coverage area.

After 1 minute of no motion detection the walk test mode will timeout and end.

We recommend removing the LED enable jumper after walk testing so that battery life will be prolonged.

Battery Life and Replacement

Battery life depends on temperature of environment and how often sensor transmits signals. Sensor transmits a low battery indication to panel when it detects the battery voltage is low. **Replace both batteries as soon as possible.**

- Twist sensor counter clockwise to remove from base.
- Carefully remove both batteries from their holders.
- Insert two (2) new batteries into the holders observing (+) polarity marked on the batteries and the circuit board.

CAUTION: Use only the following approved Lithium Battery: Panasonic CR123 3V

- Replace sensor onto the mounting base.

CAUTION: Battery may explode if mistreated. Do not re-charge, disassemble, incinerate or expose to heat above 212° F (100° C). Keep away from children.

Battery Disposal

The batteries used in this sensor are lithium batteries and are not reuseable. Dispose of used lithium batteries according to your local hazardous waste disposal laws.

FCC AND IC COMPLIANCE STATEMENT:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes: (1) cet appareil ne doit pas provoquer d'interférences et (2) cet appareil doit accepter toute interférence, y compris celles pouvant causer un mauvais fonctionnement de l'appareil.

In accordance with FCC requirements of human exposure to radio frequency fields, the radiating element shall be installed such that a minimum separation distance of 20 cm is maintained from the general population.

FCC ID: 2ABBZ-RF-CPIR

IC: 11817A-RFCPIR

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, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This Class B digital apparatus complies with Canadian ICES-3B.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Limited Warranty

THIS WIRELESS SENSOR IS WARRANTED TO BE FREE FROM DEFECTS AND WORKMANSHIP FOR A PERIOD OF 2 YEARS FROM DATE OF MANUFACTURE EXCLUDING BATTERIES. BATTERIES USED WITH WIRELESS DEVICES ARE NOT WARRANTED.
MANUFACTURER HEREBY DISCLAIMS ANY AND ALL OTHER WARRANTIES AND REPRESENTATIONS, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE INCLUDING (BUT NOT LIMITED TO) ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THESE PRODUCTS AND ANY RELATED SOFTWARE. MANUFACTURER FURTHER DISCLAIMS ANY OTHER IMPLIED WARRANTY UNDER THE UNIFORM COMPUTER INFORMATION TRANSACTIONS ACT OR SIMILAR LAW AS ENACTED BY ANY STATE. (USA only) SOME STATES DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER LEGAL RIGHTS THAT VARY FROM STATE TO STATE. MANUFACTURER MAKES NO REPRESENTATION, WARRANTY, COVENANT OR PROMISE THAT ITS ALARM PRODUCTS AND/OR RELATED SOFTWARE (I) WILL NOT BE HACKED, COMPROMISED AND/OR CIRCUMVENTED; (II) WILL PREVENT, OR PROVIDE ADEQUATE WARNING OR PROTECTION FROM, BREAK-INS, BURGLARY, ROBBERY, FIRE; OR (III) WILL WORK PROPERLY IN ALL ENVIRONMENTS & APPLICATIONS.

NOTE: Elk Products is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.