

ELK-319PIRW Wall Mounted Wireless PIR Sensor



Description

The ELK-319PIRW is a Supervised Wireless PIR (passive infrared) Motion Sensor designed for wall mounting applications. It detects movement within a specific area by sensing the infrared energy emitted from a body as it moves across the sensor field of view. When motion is detected, the sensor transmits an alarm signal to the control panel. Additional transmitted signals include: tamper, hourly supervisory, and low battery. The sensor is powered by one (1) replaceable 3VDC lithium battery.

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 319.5MHz learn-mode control panels
Battery type: One (1) 3VDC lithium battery (Panasonic CR123)
Tamper Switch: Sealed dome-contact
Sensitivity: 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 3.2H x 2.4W x 1.7D

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 tab (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 Zone Loop as "1" for this sensor.

6. Exit the panel Program mode when finished.

Pet Immunity

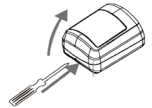
The ELK-319PIRW is designed to allow the presence of pets (up to 22lbs.) without signaling an alarm. It has a special micro-element lens array, producing much stronger optical signals for humans than for pets 22 lbs. or lighter.

Pets come in many varieties. Some pets (especially larger ones with very short hair), even if lighter than 22 lbs. may produce enough infrared radiation to cause alarms. Users are strongly encouraged to test sensor with their own pets, in order to verify that the sensor will not signal an alarm when their pets are moving within its field of view.



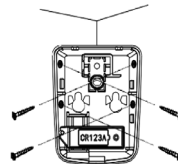
Sensor Disassembly & Base Mounting

Use screwdriver to push the latch at the bottom of the sensor and then lift up on cover from bottom to remove.



Identify necessary holes:

1. For flat wall mounting, use keyhole shaped holes in base.
2. For corner or 45 degree mounting, use drill to open at least 2 of the holes in base (L & R) side depressions.



Sensitivity setting

Set Jumper JP2 per diagram

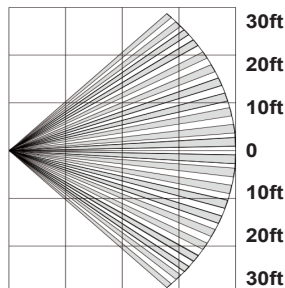
Hi Sensitivity - Detection should occur in about 2 to 4 steps.



Std Sensitivity - Detection should occur about 3 - 5 steps.



Coverage Pattern



| Range = 40ft Max. |

Recommend Installation Practices

To achieve reliable operation and best false alarm immunity please follow these guidelines:

- Mount sensor on a solid flat wall surface in a corner.
- Surface must be solid with no vibration or movement.
- Height should be 7.5ft above the finished floor.
- Sensitivity should be set to Standard
- Position sensor where intruder would most likely walk across coverage pattern.
- Pets, if present, must not be allowed to climb on objects like furniture, boxes, etc. that are within the field of view.
- 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
- Room temperature should be between 60 and 120 F.

Walk Test and Operation [3 minute lockout]

To conserve battery life sensor has an automatic 3-minute sleep mode lockout between transmissions.

To perform Walk Testing, open sensor cover and enable the LED (Jumper J1 to "LED" position). Replace cover and move across the monitored area (within the sensor's optical fields-of-view). LED should turn ON after 2 to 4 normal steps. Stop and wait 12 seconds before continuing. When there is no motion in the monitored area, the LED should remain OFF.

It is recommended to not leave Jumper J1 in LED position since **excessive use of the walk test mode reduces battery life. Use only for initial setup and maintenance.**

Battery Life and Replacement

Battery life depends on how often sensor transmits signals as well as temperature of the environmental. Sensor transmits a low battery indication to panel when it detects the battery voltage is low. **Replace the battery as soon as possible once the low battery is signaled using a Panasonic CR123 3V.**

- Depress cover latch on top edge and lower cover.
- Remove battery from holder and install new battery. Observe (+) polarity marked on the battery and circuit board.

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

Battery Disposal: This sensor uses a lithium battery which is not rechargeable or 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-ARPIR-319

IC: 11817A-RFARPIR319

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.

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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.