Manuals+ — User Manuals Simplified.

Cinch Systems RF-CPIR-319-NN Wireless Ceiling-Mounted PIR Motion Detector Instruction Manual

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Contents

Installation

The motion detector is designed for a ceiling mount application that provides a 3600 detection range.

Do not mount outdoors
Avoid areas with pets
Do not mount near ceiling fans or heating ducts Avoid looking directly at windows and direct sunlight.

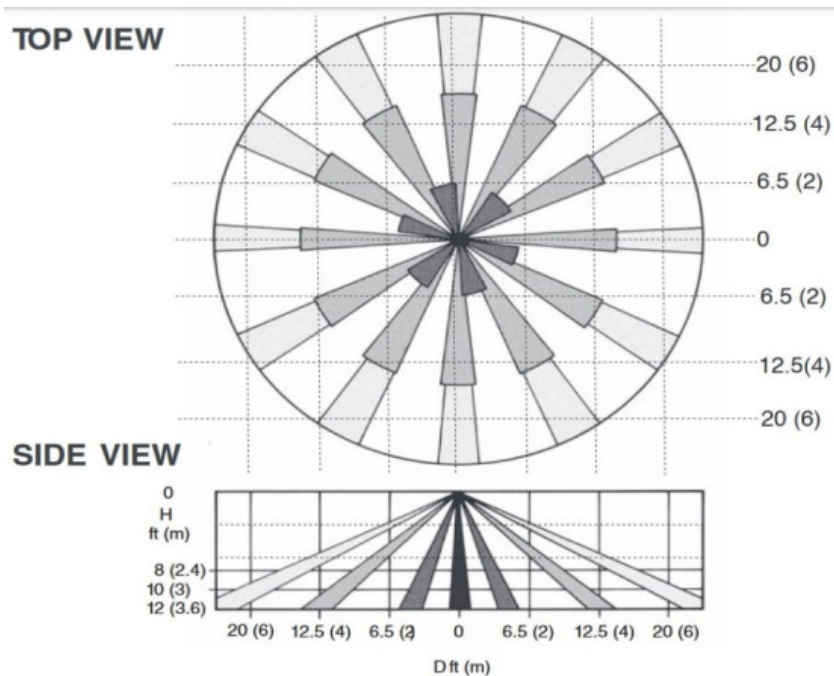The RF-CPIR is a 3600 passive infrared motion detector designed for ceiling mount applications.

The compact design allows for an easy installation. The sensitivity setting also provides for different types for environments.

Mounting Location

The coverage pattern is dependent on the mounting height of the detector, areas cans be masked off to prevent unwanted detection.

Mounting Height	Detection Area
8 ft	20 ft
10 ft	30 ft
12 ft	45 ft

Also, the detectors sensitivity can be set to allow for harsher environments where movement or temperatures can vary.

TOP VIEW

20 (6)
12.5 (4)
6.5 (2)
0
6.5 (2)
12.5(4)
20 (6)

SIDE VIEW

0
H
ft (m)

8 (2.4)
10 (3)
12 (3.6)

20 (6) 12.5 (4) 6.5 (2) 0 6.5 (2) 12.5 (4) 20 (6)

D ft (m)

Sensitivity setting

- **Low –** recommended setting, allows for some environmental movement.
- **High –** quick response, used for quiet areas that do not expect environmental noise.

Tamper

Lo
Hi

LED
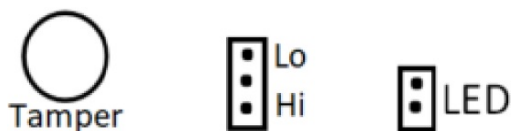
- **Lo Sensitivity –** move jumper to top two pins
- **Hi Sensitivity –** move jumper to bottom 2 pins
- **LED –** jumper installed across pins, LED will light when movement is detected.

Note: Leaving the LED jumper installed will greatly reduce the detector's battery life.
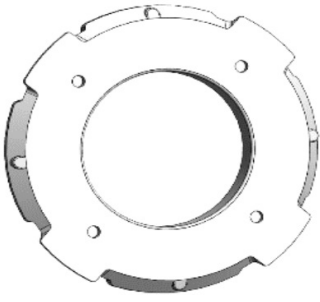
Mounting

Attach tamper spring to plastic foot, **see photo 1**, and attach to tamper switch, **see photo 2.**

Photo 1.

Photo 2.

Ceiling Mounting

- Remove the housing base from the detector.

- Using anchors and screws securely mount the base to the ceiling.
- The detector base will twist onto the base when installed.

Panel Enrollment

The following steps describe the general guidelines for programming the sensor into panel memory. Refer to the specific panel's documentation for complete programming details.

1. Set the panel to the program mode.
2. Proceed to the SENSORS menu.
3. Select the appropriate sensor group and sensor number assignments.
4. When prompted by the panel to trip the sensor for learning, remove the sensor cover and if present pull the battery pull tabs. The system should acknowledge learning the sensor by touchpad display and/or audio (depending on the panel).
5. Exit program mode.

Testing

1. Press the tamper on the motion board to enter walk test mode – during this mode the detector will transmit a RF signal to the control panel whenever it detects motion.
2. Place the jumper across the LED pins, this will allow the LED to light when motion is detected.
3. Place the detector back in its location and walk the coverage area verifying the LED lights when movement is detected.
4. Walk test will time out after 1 min. of no motion detection.
5. Remove the LED jumper

Note: Leaving the LED jumper installed will greatly reduce the detectors battery life.

Operation

3-minute lockout – to conserve battery life the detector has a 3-minute lockout between motion detections.

Unless the jumper is installed the red LED will not light during motion detection.

Note: Leaving the LED jumper installed will greatly reduce the detectors battery life.

Replacing the Batteries

Battery life depends on how often the detector transmits signals, but is more dependent on the temperature of the

installation environment. When the battery voltage gets low, the detector transmits a low battery signal to the panel. The panel then activates trouble beeps to notify the customer that the detector battery must be replaced. Pressing the status button identifies the sensor with the low battery.

Replace the battery immediately when this condition occurs, using a Panasonic CR123A 3V. Note: If a low battery alarm occurs, replace the battery within 7 days.

CAUTION: Battery may explode if mistreated. Do not recharge, disassemble or dispose of in fire.

Battery Disposal

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

Specifications

- **Compatibility:** Interlogix 319.5 control panels, Qolsys.
- **Power Source:** 2 CR123A 3V Battery.
- **Tamper Switch:** Sealed dome-contact.
- **Sensitivity Selectable:** 2 event or 3 event.
- **Typical Battery Life:** 4-6 years at 68°F..
- **Transmitter Frequency:** 319.5 MHz.
- **Operating Temperature:** -40 C – +55 C.
- **Storage Temperature Range:** -30° to 140° F (-34° to 60° C).
- **Maximum Humidity:** 90% Relative Humidity non-condensing.
- **Dimensions:** 2.95in diameter X 1.39in depth.
- **Housing:** High impact ABS.

FCC / IC 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 licence-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.

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: 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.
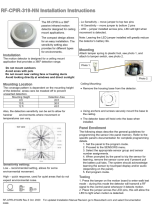
This Class B digital apparatus complies with Canadian ICES-3B.

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Documents / Resources

Cinch Systems RF-CPIR-319-NN Wireless Ceiling-Mounted PIR Motion Detector [pdf] Instruction Manual
RF-CPIR, RFCPIR, 2ABBZ-RF-CPIR, 2ABBZRFCPIR, RF-CPIR-319-NN Wireless Ceiling-Mounted PIR Motion Detector, Wireless Ceiling-Mounted PIR Motion Detector

References

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