



# ClareOne PIR Motion Sensor Installation Sheet



**Part number:** CLR-C1-PIR

## Description

The ClareOne PIR Motion Sensor is designed to fit seamlessly in the corner of the room or alongside a wall/door. When the PIR senses motion it transmits an alarm notification to the ClareOne panel.

## Important safety instructions

Before you install this sensor, be sure to:

- Read, keep, and follow all instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- When there is a low battery, replace with a compatible lithium ion battery.

## Installation

**Note:** We recommend adding the motion sensor to the ClareOne panel before installation. For adding a sensor, see *ClareOne User Guide* (DOC ID 1871).

The motion sensor can be installed using the provided adhesive or screws.

**Note:** We recommend using the provided screws for installation. This method is more secure than using adhesive alone.

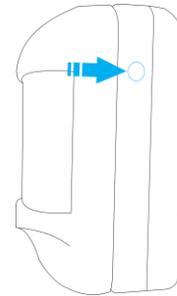
## To install the motion sensor:

1. Select the desired position for the sensor.

**Note:** The sensor only detects motion within 3.28 ft. (1 m) below it and installed at 6.88 ft. (2.1 m) having a range of 32.80 ft. (10 m).

2. Remove the sensor's battery pull tab.
3. Add the sensor to the panel. See "Sensor Management," [ClareOne User Guide \(DOC ID 1871\)](#).

**Note:** You must press the button on the side of the sensor to pair the sensor to the panel.

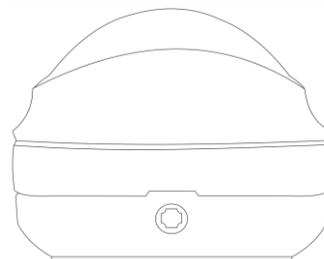


4. Adhere the sensor to the wall using the provided screws or adhesive.

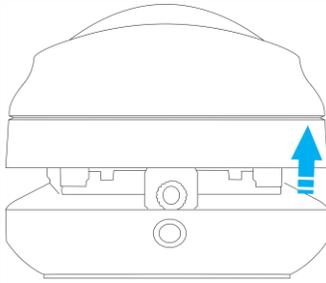
**Note:** We recommend using the provided screws for installation. This method is more secure than using adhesive alone.

## Screws

- 4.1.a Locate the bottom of the sensor (the slotted flat end), and then use a screwdriver to remove the casing's screw.

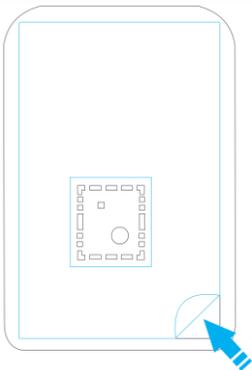


- 4.1.b Gently slide a fingernail/fingertip into the slot and push the top casing of the sensor upward.



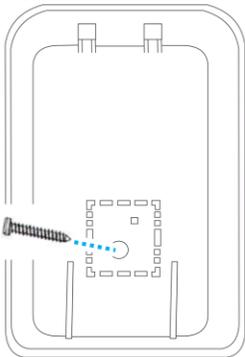
- 4.1.c (Optional) Mark the screw hole locations, then using a power drill, drill holes and install the 2 provided wall anchors.

- 4.1.d Remove the adhesive film cover, and then place the back plate against the wall, making sure that the orientation is correct for the desired position.



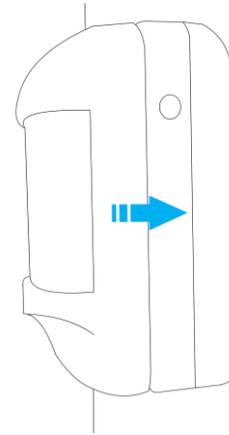
**Note:** Once placed the sensor cannot be moved without damaging the adhesive.

- 4.1.e Insert the included mounting screw into the screw breakaway screw hole, using a screwdriver to fully secure the backplate to the wall.



- 4.1.f Before finishing installation, set the PINs and jumpers to the desired position. See, Pin function on page 4.

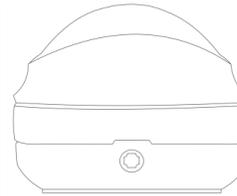
- 4.1.g Once the sensor is configured as desired, press the sensor cover against the base, until there is an audible snap.



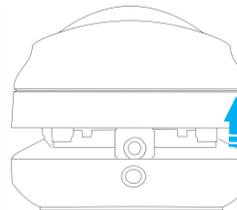
- 4.1.h Use the sensor's casing screw to secure the cover.

#### Adhesive

- 4.2.a Locate the bottom of the sensor (the slotted flat end), and then use a screwdriver to remove the casing's screw.

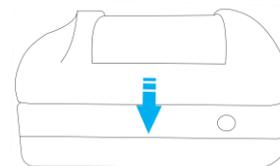


- 4.2.b Gently slide a fingernail/fingertip into the slot and push the top casing of the sensor upward.



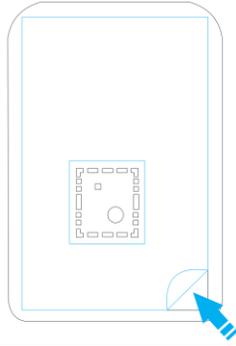
- 4.2.c Set the PINs and jumpers to the desired position. See, Pin function on page 4.

- 4.2.d Once the sensor is configured as desired, press the sensor cover against the base, until there is an audible snap.



- 4.2.e Use the sensor's casing screw to secure the cover.

4.2.f Peel the film cover off of the adhesive, and then firmly press the sensor back plate against the wall.



**Note:** Once placed, the sensor cannot be moved without damaging the adhesive.

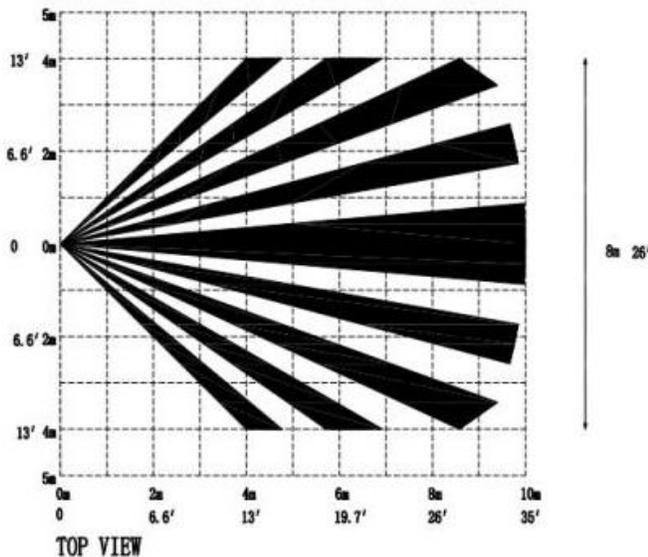
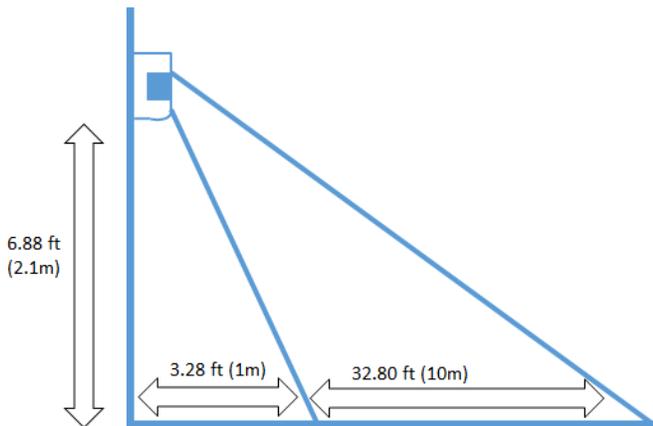
5. Once added, test the sensor.

Look at the ClareOne panel, and then open the door/window.

Notice that the added sensor displays faulted.

**Note: Testing all sensors with the alarm monitoring station is strongly advised.**

Figure 1: Sensor range and detection



## Motion detector Walk Test

The motion detector Walk Test allows the installer the ability to check the detection range.

### To perform the motion detector Walk Test:

1. Verify that the sensor is paired to the ClareOne panel.
2. Remove the battery.  
See "To replace the battery:" on page 3.
3. Press and hold the tamper switch while replacing the battery.
4. Walk Test mode is now active.
5. Walk around the desired detection area and verify that sensor can detect motion at the desired range/area.

### Notes

- The LED flashes when the sensor detects motion.
  - The LED can be triggered every 10 seconds.
  - The sensor remains in Walk Test mode until the battery is removed and replaced.
6. Remove and replace the battery.  
The sensor is now in normal mode.

## Battery replacement

The CLR-C1-PIR requires a CR123A battery. Once the battery is low, the panel displays a low battery icon next to the sensor in the devices list. The battery must be replaced within 7 days of the first low battery notification. If the battery is not replaced within 7 days, the sensor may not function properly.

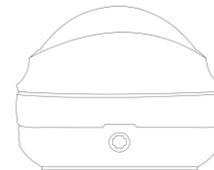
**WARNING:** If an incompatible replacement battery is used, or the battery is installed incorrectly explosion or damages may occur.

**AVERTISSEMENT:** Si une batterie de remplacement incompatible est utilisée ou si la batterie est installée de manière incorrecte, une explosion ou des dommages peuvent survenir.

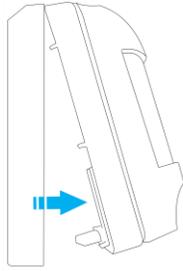
### To replace the battery:

**Note:** Verify that the panel is not armed before changing the battery.

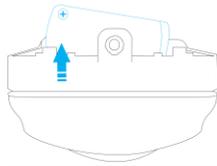
1. Locate the bottom of the sensor (the slotted flat end), and then use a screwdriver to remove the casing's screw.



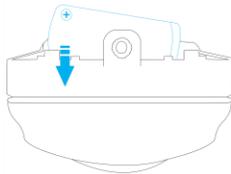
- Gently slide a fingernail/fingertip into the slot and push the top casing of the sensor outward, away from the wall.



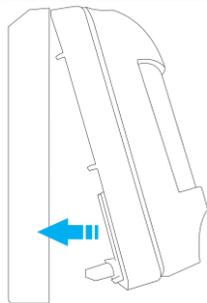
- Use a fingernail/fingertip to push the battery out of the casing, noting the polarity of the battery.



- Insert a new CR123A battery into the battery casing, making sure that the polarity is correct.



- Press the sensor cover back onto its back plate. There will be an audible snap.

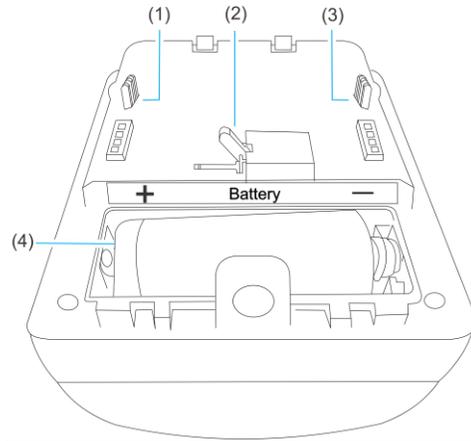


- Use the sensor's casing screw to secure the cover
- Test the sensor.

## Pin function

The PIR Motion Sensor has 2 sets of adjustable pins. The pins adjust the Pet Immunity setting and the Sensitivity level. Each set of pins has 2 settings that can be selected.

Figure 2: Sensor pins and tamper switch



- (1) Pet immunity pins      (3) Sensitivity pins  
(2) Tamper switch      (4) Battery

Table 1: Pin configuration

Configuration	Pet Immunity	Sensitivity
Top and middle pin	Up to 33lb dog	Low – max of 19 ft. (6 m) distance range
Middle and bottom pin	Up to 55lb dog	High – max of 32 ft. (10 m) distance range

## Pet Immunity

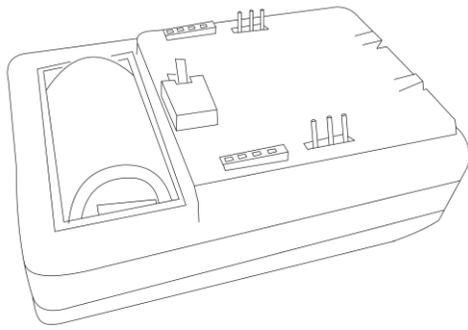
The pet immunity pins allow the user to select the desired immunity level. Place the selector over the desired pin configuration.

### To change the pet immunity level:

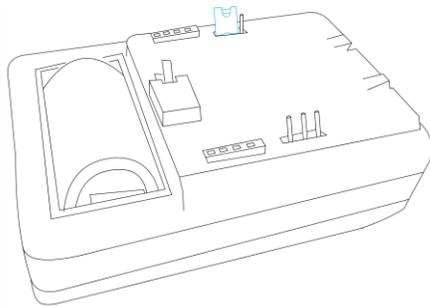
- Remove the back plate from the motion sensor.
- Turn the sensor over so the battery faces up.
- Locate the pet immunity pins on the left side.

- Gently pinch the jumper and pull upward and away from the sensor.

All 3 pins are visible.



- Gently press the jumper on the desired pin set. See Table 1: Pin configuration, on page 4.



- Replace the sensor plate, and then continue to installation.

– or –

Adjust the sensitivity level, and then continue to installation.

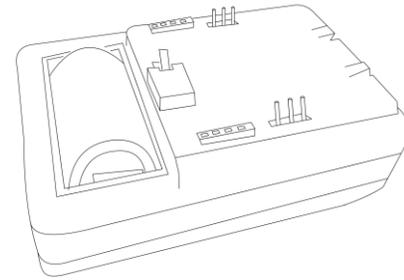
### Sensitivity

The sensitivity pins allow the user to select the desired sensitivity level. Place the selector over the desired pin configuration.

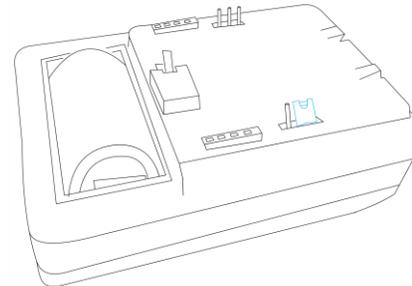
#### To change the sensitivity level:

- Remove the back plate from the motion sensor.
- Turn the sensor over so the battery faces up.
- Locate the sensitivity pins on the right side.
- Gently pinch the jumper and pull upward and away from the sensor.

All 3 pins are visible.



- Gently press the jumper on the desired pin set.



- Replace the sensor plate, and then continue to installation.

– or –

Adjust the pet immunity level, and then continue to installation.

## Specifications

Compatible panel	ClareOne
Transmitter frequency	433MHz
Encrypted	Yes
Pet immunity	Up to 55lb dog
Detection length	Default: 32.80 ft. (10 m) Optional: 19.68 ft. (6 m)
Detection angle	90 degrees
Transmitted indications	Tamper and low battery
Supervisory keep-alive	60 to 70 minutes
PIR function	Sensitivity (2 stops) Pet immunity (2 stops)
Button	Pairing
Battery type	CR123A (1300mAh)
Battery life	4 to 5 years
Operating environment	
Temperature	32 to 122°F (00 to 50°C)
Relative humidity	85% max
Sensor dimensions (W x H x D)	2.16 x 2.99 x 1.65 in. (55 x 76 x 42 mm)
Water resistant	No
Certifications	FCC: 15.109 Class B 15.231, Industry Canada: ICES-003, RSS-210, ETL listed to: UL639, CAN/ULC-C306

## Regulatory information

Manufacturer Clare Controls, Llc.  
7519 Pennsylvania Ave, Suite 104  
Sarasota, FL 34243

North American standards ETL listed to: UL 639, ULC S306

FCC compliance FCC ID: 2AVDC-XPM-201  
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.

Note: 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.

Warning: changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Environmental class UL: Indoor dry  
IEC: 3K5

EU compliance **CE**

EN 54 EN 54-00:0000

European Union directives 1999/5/EC (R&TTE directive): Hereby, Clare Controls declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.



2004/108/EC (EMC directive): Hereby, Clare Controls, Llc. Declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC.

2002/96/EC (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: [www.recyclethis.info](http://www.recyclethis.info).



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: [www.recyclethis.info](http://www.recyclethis.info).

## Warranty information

Clare Controls offers a two (2) year limited warranty on original Clare Controls components, from the date of shipment from Clare Controls.

## Contact information

Clare Controls, LLC.  
7519 Pennsylvania Ave, Suite 104  
Sarasota, FL 34243

General: 941.328.3991  
Fax: 941.870.9646  
[www.clarecontrols.com](http://www.clarecontrols.com)

Integrator/Dealer Support: 941.404.1072  
[claresupport@clarecontrols.com](mailto:claresupport@clarecontrols.com)

Homeowners should contact their installation dealer for assistance.



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