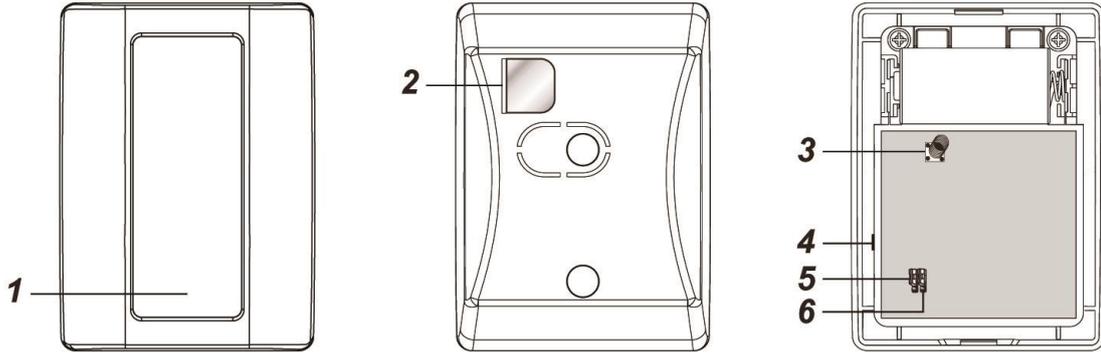# Curtain PIR Motion Sensor (CIR-S1)

Parts Description

1. LED indicator

The LED Indicator is under the front cover and is only visible when turned on.

2. Battery Insulator

3. Tamper Switch

The Tamper switch protects the PIR from unauthorized cover opening or removal from mounted surface

4. Learn/Test Button

Press the button to transmit a learn/test code and enter Test mode for 3 minutes.

5. Supervision Enable/Disable Jumper Switch (JP2)

6. High/Low Sensitivity Jumper Switch (JP3)

Package Content

1 x PIR Sensor

2 x wall plugs and screws

1 x CR123A 3V lithium battery(pre-installed)

Supervision Enable/Disable Jumper Switch (JP2)	
Jumper On The jumper link is inserted connecting the two pins	**Jumper Off** if the jumper link is removed or parked on one pin.
If enabled, the PIR sensor will transmit supervision signal to Control Panel periodically for the sensor to monitor PIR sensor condition.	
Jumper set to **ON =** supervision function is Disabled	
Jumper set to **OFF** = supervision function is Enabled **(Default)**	

| High/Low Sensitivity Jumper Switch (JP3)	
Jumper On The jumper link is inserted connecting the two pins	**Jumper Off** if the jumper link is removed or parked on one pin.
Jumper set to **ON =** PIR sensitivity is set to High	
Jumper set to **OFF=** PIR sensitivity is set to Low **(Default)**	

Learning

Put the Control Panel into learning mode, then press the learn button to transmit learn code. Please refer to Control Panel manual for to complete the learning process.
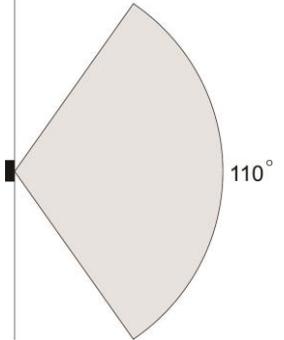
Detection Coverage

When mounted vertically, the PIR has a horizontal detection coverage of 10° and vertical detection coverage of 110° to the front. The PIR will only be activated by movement across the 10° horizontal coverage.

Top View
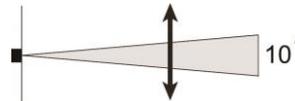
Side View

There are 3 ways to mount the PIR for different coverage according to different scenarios

Vertical Wall Mount

Mount the PIR on the wall vertically to protect against anyone attempting to move across the detection area

When mounted at 1.4~1.7 meter height, the PIR has a detection range of **10** meters against horizontal movement. Avoid mounting outside suggested height or the detection range may be reduced.
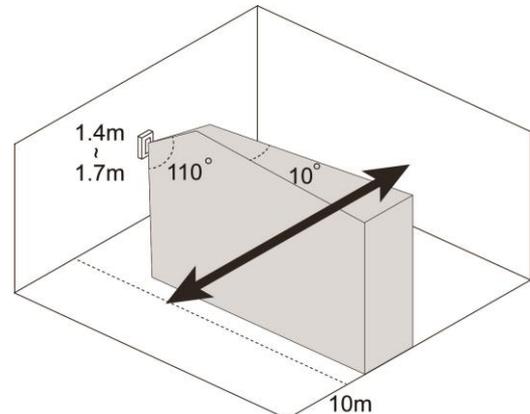

Horizontal Wall Mount

Turn the PIR horizontally and mount on wall to protect against vertical movement across the detection area. This practice is usually used to protect against intruder from sky light and roof hatch.

When mounted horizontally, the PIR has a detection range of **5** meters against underlined vertically movement only. It will NOT be able to
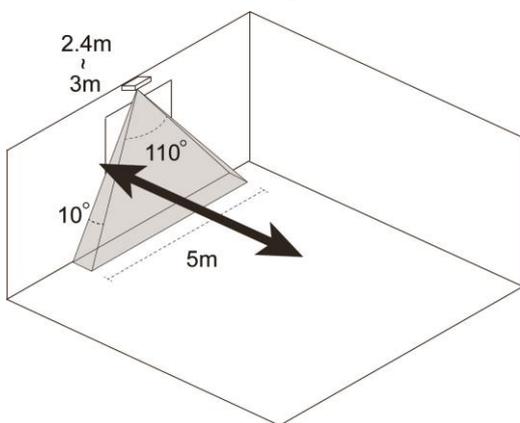
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detect horizontal movement.
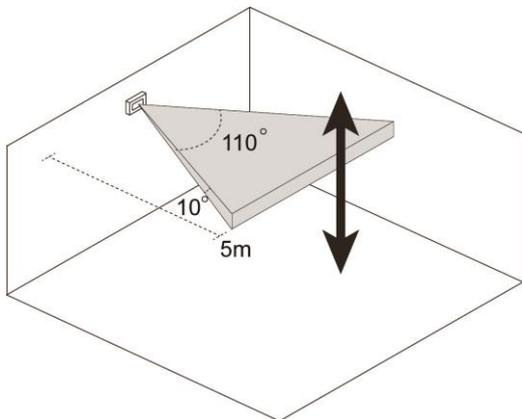
Ceiling Mount

Mount the PIR on ceiling to look downward over a door or window.

When mounted at 2.4~3 meter height and looking down, the PIR has coverage of about **5** meters at ground level

Installation

The PIR Sensor has knockouts on the back where plastic is thinner fort wall or ceiling mounting.

1. Break through the knockouts; use the knockouts to mark position on the wall or ceiling.
2. Drill holes into the marked location using the knockouts as template.
3. Fix the PIR Sensor base onto the wall or ceiling the screws and plugs provided.
4. Replace the PIR Sensor cover onto the base.

Knockouts x 2)
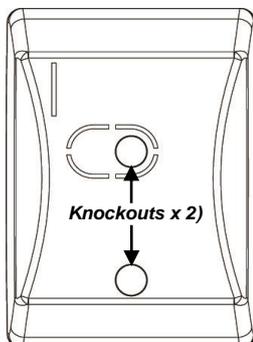
Operation

Sleep Timer

The PIR features a "**sleep time**" of approximately 1 minute for power conservation. After transmitting a detected movement, the PIR will not retransmit for 1 minute. Any further movement detected during this sleep period will extend the sleep time by another minute. In this way continuous movement in front of a PIR will not unduly exhaust the battery.

Test Mode

Press the Test Button to enter Test mode for 3 minutes. Sleep timer will be disabled under Test mode, and the LED indicator will flash every time a movement is detected. Use the Test mode to determine PIR detection coverage and plan the installation location accordingly.

LED Indicator

Off	Normal Operation
On (2 seconds)	- When Tamper Switch is triggered
	- Movement detection under low battery, tamper triggered, or Test mode.

Tamper Switch

The tamper switch spring is compressed against the break-away area on PIR back cover when cover is closed. When the PIR base is screwed onto mounting location, forceful attempt to remove the PIR will cause the break-away area to detach and activate tamper switch to notify Control Panel.

Break-away Area
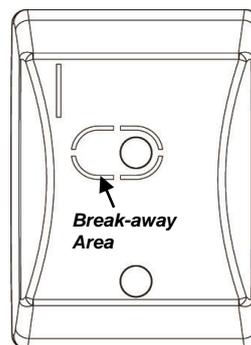
Battery

The PIR uses one CR123A 3V lithium battery as its power source. Remove the battery insulator to activate battery. It also features low battery detection function to notify the Control Panel when battery voltage is low.

When PIR is on low battery, follow the procedure below to change the batteries.

1. Open the PIR back cover.
2. Remove the old battery.
3. Press the tamper switch several times to fully discharge.
4. Insert the new batteries observing correct polarity. The PIR LED will light up for 30 seconds to indicate it is warming up.
5. Replace the PIR back cover.

Specification

Environmental Condition

-10°C to 40°C, relative humidity 85% non-condensing.

Radio

868 MHz

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