Welcome

Lightcloud®

Passive Infrared Ceiling Sensor

PIRW12/LCB
PIRW12/ARM/LCB

WE'RE HERE TO HELP:

1(844) LIGHTCLOUD

1 (844) 544-4825

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Hello

The Lightcloud Blue Passive Infrared (PIR) Ceiling Sensor is a hardwired, stand-alone occupancy sensor used to allow an existing 0-10V dimming circuit to communicate with the Lightcloud Blue mesh network for wireless control. Passive infrared technology offers a slotted field of detection of small movements within a limited distance from the sensor. This sensor is ideal for smaller/compact, rectangular areas with a direct line of sight to occupancy in the space. Easily configure sensor and daylight settings using the Lightcloud Blue mobile app.

Specifications

PART NUMBER
PIRW12/LCB
PIRW12/ARM/LCB

PRODUCT DIMENSIONS
4.41"D x 4.41"L x 2.02"H
4.65"D x 5.39"L x 3.79"H

INPUT
120-277VAC, 50/60 Hz

SENSOR TYPE
Passive Infrared (PIR)

MOUNTING HEIGHT
12 ft.

INDUCTIVE and RESISTIVE LOAD
8A @ 120VAC;5A @ 277VAC

ENVIRONMENT
Indoor/Outdoor (IP66)

SENSOR COVERAGE
46 ft. diameter at 12 ft.

LED LOAD
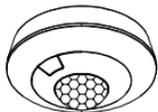5A @ 120VAC;3A @ 277VAC

SENSOR CONNECTION
Wired

WIRELESS RANGE
≤60 ft.

Detection Angle
120° (wall); 360° (ceiling)

Contents

PIR Ceiling Sensor (Surface mount)

Mounting Screws
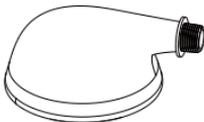8PWA0.15×0.47×0.315"

x 2

Plastic Nut
For PIRW12/ARM/LCB only

x 1

Mounting Accessory (knockout mount)

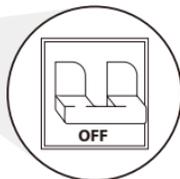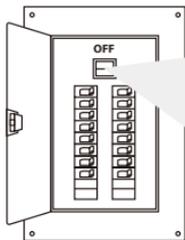Included w/mounting accessory

Wire Nuts

x 6

Waterproof
Gasket

x 1
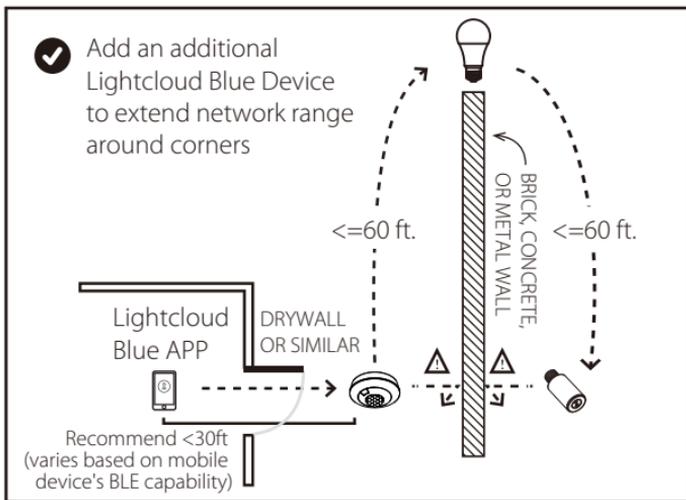
Setup & Installation

① Turn off power

⚠ **WARNING**

OFF

OFF

Setup & Installation (*cont'd*)

1a Find a suitable location

- Lightcloud Blue devices should be positioned within 60 ft. of each other.
- Building materials such as brick, concrete and steel construction may require additional Lightcloud Blue devices to extend around an obstruction.

✔ Add an additional Lightcloud Blue Device to extend network range around corners

<=60 ft.

<=60 ft.

BRICK, CONCRETE, OR METAL WALL

Lightcloud Blue APP

DRYWALL OR SIMILAR

Recommend <30ft (varies based on mobile device's BLE capability)

Setup & Installation (*cont'd*)

2 Install your Lightcloud Blue Sensor
SURFACE MOUNT ON A JUNCTION BOX (INDOOR/OUTDOOR)

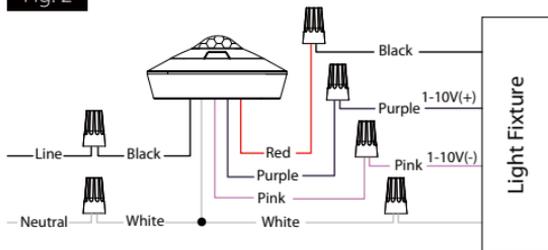The PIR Ceiling Sensor can be used to control an existing 0-10V dimmabe fixture or circuit.

Note: When using to control other Lightcloud Blue devices, the sensor only requires constant power (hot and neutral, no load) and should be grouped in the same Area in the mobile app.

1. Make sure power is turned off and the junction box is affixed to the ceiling *(Fig. 1)*

2. Connect the ceiling sensor to supply wires with wire nut. *(Fig. 2)*

Fig: 1

Fig: 2

Line — Black
Neutral — White
Red
Purple
Pink
White
Black
Purple 1-10V(+)
Pink 1-10V(-)
White
Light Fixture

Setup & Installation (*cont'd*)

3. Detach the sensor face from the base by turning the sensor counterclockwise to unlock the face from the base. *(Fig.3)*

4. Safely place all wires into the junction box and secure the sensor base to the junction box by tightening the screws through the keyhole slots. *(Fig. 4)*

5. Re-attach the sensor face to the base by turning clockwise to lock. *(Fig. 5)*

Fig: 3

Sensor Base

Fig: 4

Fig: 5
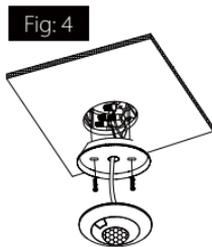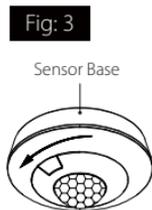
Setup & Installation (*cont'd*)

MOUNT ON A JUNCTION BOX (INDOOR/OUTDOOR)

1. Make sure power is turned off and the junction box is affixed to the ceiling. *(Fig.1)*

2. The arm of the sensor should be threaded through the open ½" knockout of the junction box/fixture and secured using the include gasket and nut. (Fig. 2)

3. Connect the ceiling sensor to supply wires with included wire nuts. (Fig 3)
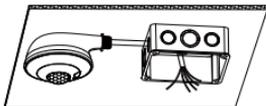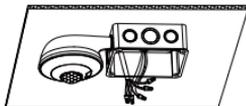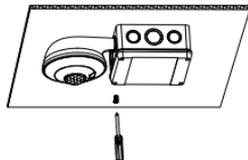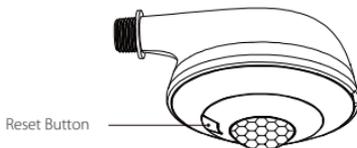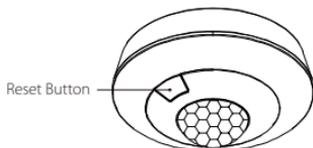
Fig: 1   Fig: 2   Fig: 3

Pairing Mode/Restore Factory Settings

Press the reset button for 10 seconds or until the indicator light flashes red to set this device into pairing mode and reset to factory default settings. indicator light flashes red.
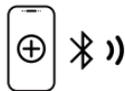
Reset Button

Reset Button

Controlling your Lightcloud Blue Device

1 Confirm your device is powered on.

2 Download the Lightcloud Blue app from the Apple® App Store or Google® Play store.

[Download on the App Store]   [GET IT ON Google Play]

3 Launch the App and create an account.

4 Tap the "add device" icon in the app to start connecting devices.

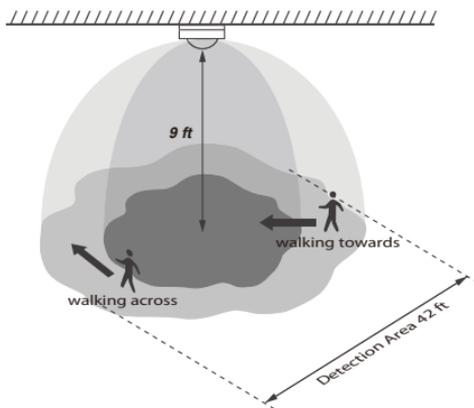**5** Select the Sensor in the app and move it to an Area to configure sensor settings.
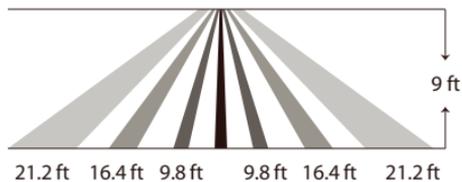
6 You're all set!

Check out the Lightcloud Blue Mobile App User Guide for more information on how to maximize your system

Sensor Coverage

Highest ceiling mounted height is 9 ft.

9 ft

walking towards

walking across

Detection Area 42 ft

Radius of detection range is 10-21 ft.

9 ft

21.2 ft   16.4 ft   9.8 ft   9.8 ft   16.4 ft   21.2 ft

Sensor Coverage

Highest ceiling mounted height is 12 ft.

12 ft

walking towards

walking across

Detection Area 46 ft

Radius of detection range is 10-23 ft.

12 ft
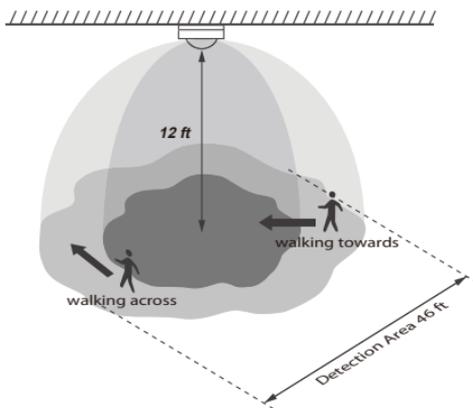
| 22.9 ft | 16.4 ft | 9.8 ft | 9.8 ft | 16.4 ft | 22.9 ft |
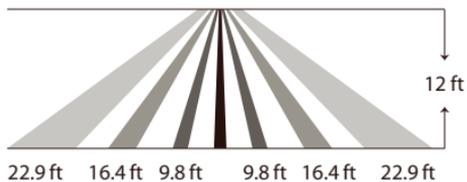
Functionality

The Lightcloud Blue Ceiling Sensor can operate in either Occupancy or Vacancy to control Lightcloud Blue-enabled lights that are grouped in the same Area in the mobile app. Sensor settings can be configured using the Lightcloud Blue mobile app once it is moved to an Area.

In Occupancy mode, when motion is detected, lights can turn on and then turn off or dim when the timeout expires.

In Vacancy mode, lights can turn off or dim when the motion timeout expires. Lights will need to be manually turned on using the Lightcloud Blue mobile app or other Lightcloud Blue-enabled devices.

FCC Information:

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 device has been tested and found to comply with the limits for Class B digital devices pursuant to Part 15 Subpart B, of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential environment. This equipment generates, uses, and canradiate radio frequency energy, and if not installed and used in accordance with the instruction manual, 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 and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment andreceiver.
- 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.

To comply with the FCC's RF exposure limits for general population/uncontrolled exposure, this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.
CAUTION: Changes or modifcations to this equipment not expressly approved by RAB Lighting may void the user's authority to operate this equipment.

Configuration

All configuration of Lightcloud Blue products may be performed using the Lightcloud Blue mobile app.
Learn more at **rablighting.com**

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