

 **LUTRON**  
LUTRON PD-OSENS, PD-  
VSENS Caseta Wireless  
Motion Sensor



# LUTRON PD-OSENS, PD-VSENS Caseta Wireless Motion Sensor Owner's Manual

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**LUTRON PD-OSENS, PD-VSENS Caseta Wireless Motion Sensor**



## Specifications

- Title 24 requirements
- Power loss note: For unconditioned environments where the air temperature may approach the temperature of the occupants, additional sensors will be needed to achieve the same coverage. This is true of any sensor that relies exclusively on passive infrared technology.
- Maximum range: Line-of-sight not exceed 60 ft (18 m) or 30 ft (9 m) through walls.

## Product Installation

### Installation Overview

Refer to the Sensor Quick-Start Guide (P/N 0301931) at [www.lutron.com](http://www.lutron.com) for detailed installation instructions.

### Mounting

**Temporary mounting:** A 3MT CommandT adhesive strip is provided for temporarily mounting and testing the sensor. This strip is designed for easy, damage-free removal and is not reusable.

**Permanent mounting:** Mounting bracket, screws, and anchors are provided to mount the sensor.

Flat Wall-Mount Mounting Bracket	Corner-Mount Mounting Bracket
----------------------------------	-------------------------------

### Dimensions

- Height: 4.35 in (110 mm)
- Width: 1.8 in (46 mm)
- Depth: 1.35 in (34 mm)

## Product Usage

### Sensor Coverage

## Tested Coverage Area:

- Major motion coverage:  $20 \times 2 \times 45 = 1800 \text{ ft}^2$  (167.2 m<sup>2</sup>)
- Minor motion coverage:  $15 \times 2 \times 35 = 1050 \text{ ft}^2$  (97.5 m<sup>2</sup>)

## Vertical Beam Diagram

**Sensor Mounting Height:** 7 ft (2.1 m) (Mounting height should be between 6 ft and 8 ft / 1.6 m and 2.4 m)

Vertical Beam Diagram

## FAQ (Frequently Asked Questions)

- **Q: What is the purpose of the 15-second grace period mentioned in the manual?**

**A:** The grace period allows for a safety and convenience feature where the lights will automatically turn back on within 15 seconds after being turned off if motion is detected, ensuring that the user does not need to manually turn the lights back on.

- **Q: What is the maximum range of the sensor?**

**A:** The sensor's maximum range is 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls.

## Caséta Wireless Motion Sensor

Lutron Caséta motion sensors are wireless, battery-powered, passive infrared (PIR) sensors that automatically control lights via RF communication to compatible dimming or switching devices. These sensors detect the heat from people moving within an area to determine when the space is occupied. The sensors then wirelessly transmit the appropriate commands to the associated dimming or switching devices to turn the lights on or off automatically. They combine both convenience and exceptional energy savings along with ease of installation.

## Features

- Wireless motion sensor has two settings available: Auto-On/Auto-Off, and Manual-On/Auto-Off
- Vacancy model meets CA Title 24 requirements
- Passive infrared motion detection with exclusive Lutron XCT Technology for fine motion detection
- 180° field of view:
  - Minor motion =  $15 \times 2 \times 35 = 1050 \text{ ft}^2$  (97.5 m<sup>2</sup>)
  - Major motion =  $20 \times 2 \times 45 = 1800 \text{ ft}^2$  (167.2 m<sup>2</sup>)
- Simple and intuitive adjustments available for Timeout, Activity, and Auto-On settings
- Accessible test buttons make setup easy
- Lens illuminates during test mode to verify ideal locations
- Multiple sensors can be added for extended coverage; refer to product specification submittal of receiving device to determine system limits
- 10-year battery life design
- RoHS compliant

## Compatible RF Devices

- For use with Lutron Caséta products only

## Models Available

- PD-OSENS
- PD-VSENS

## Sensor Type

- O = Occupancy/Vacancy (Auto-On/Auto-Off)
- V = Vacancy (Manual-On/Auto-Off)

## SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
<input type="text"/>	<input type="text"/>	<input type="text"/>
Job Number:	<input type="text"/>	<input type="text"/>

## Specifications

### Regulatory Approvals

- cULusR listed
- FCC
- IC
- IFT
- Meets CA (U.S.A.) Energy Commission Title 24 requirements

### Power/Performance

- Operating voltage: 3 V-
- Operating current: 14  $\mu$ A nominal
- Requires one CR 123 lithium battery
- 10-year battery-life design
- Non-volatile memory (saved changes are stored during power loss)

### Environment

- Temperature: 32 °F to 104 °F (0 °C to 40 °C)
- For indoor use only
- Relative humidity: less than 90% non-condensing

**Note:** For unconditioned environments where the air temperature may approach the temperature of the occupants, additional sensors will be needed to achieve the same coverage. This is true of any sensor that relies exclusively on passive infrared technology.

## Warranty

- 1-Year Limited Warranty. For additional Warranty information, please visit [www.casetawireless.com/warranty](http://www.casetawireless.com/warranty)

## RF Range

- Distance between local load controls and sensor should not exceed 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls.

## Sensor Coverage Test

- Dedicated test button
- Lens illuminates orange in response to motion during test mode




## Wireless Communication Test

- Dedicated test button
  - Turn associated loads on and off
- Timeout Options
- 1 minute
  - 5 minutes
  - 15 minutes (default setting)
  - 30 minutes

## Auto-On Options (Occupancy Versions Only)

- Enabled: Sensor turns lights ON and OFF automatically (default setting)
- Disabled\*: Lights must be turned ON manually from dimming or switching device. Sensor turns lights OFF automatically
- Pets: Pets transmit heat and may activate sensor. It is recommended to disable Auto-On.
- Bedroom: If placing sensor in bedroom, it is recommended to disable Auto-On.
- Off While Occupied: When the load control is manually turned OFF, the sensor will not turn the lights back ON automatically while the room is occupied. Once the room is vacated, the sensor returns back to normal operation after the timeout period has expired.
- Example: Watching a movie.

## Sensitivity Options

- Low Activity:  (default setting)
- Medium Activity: 
- High Activity: 

\* There is a 15-second grace period that begins when the lights are automatically turned off, during which the lights will automatically turn back on in response to motion. This grace period is provided as a safety and convenience feature in the event the lights turn off while the room is still occupied, so that the user does not need to manually turn the lights back on. After 15 seconds, the grace period expires and the lights must be manually turned on.

## **Installation Overview**

### **Sensor Setup**

- For more information, please see the Caséta Motion Sensor Quick-Start Guide (P/N 0301931) at [www.lutron.com](http://www.lutron.com).

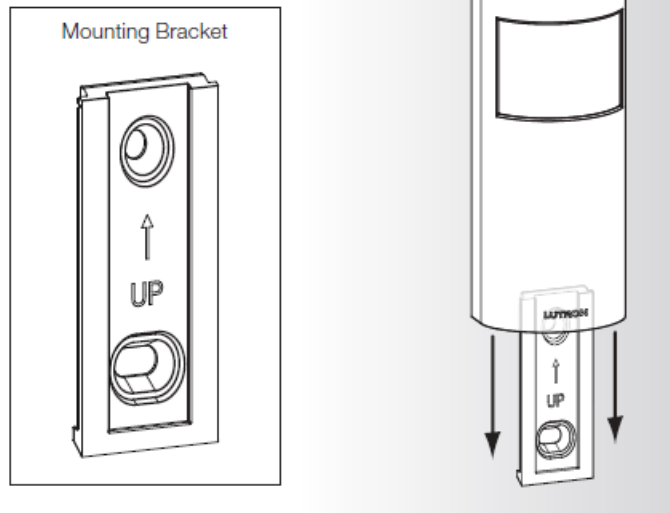
### **Sensor Placement**

- The mounting height of the sensor should be between 6 ft and 8 ft (1.6 m and 2.4 m).
- For smaller rooms, detection may be improved by placing the sensor between 3 ft and 6 ft (0.91 m and 1.8 m) from the floor.
- The ability to detect motion requires that the sensor have line-of-sight of all room occupants. The sensor must have an unobstructed view of the room. DO NOT place behind or near tall cabinets, shelves, hanging fixtures, or anything that may obstruct the sensor's view. The sensor cannot detect occupants through glass objects such as patio or shower doors.
- Hot objects and moving air currents can affect the performance of the sensor. To ensure proper operation, the sensor should be mounted at least 4 ft (1.2 m) away from light bulbs and HVAC vents.
- The performance of the sensor depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the sensor's ability to detect occupants.
- Distance between local load controls and sensor should not exceed 60 ft (18 m) line-of-sight or 30 ft (9 m) through walls.

### **Mounting**

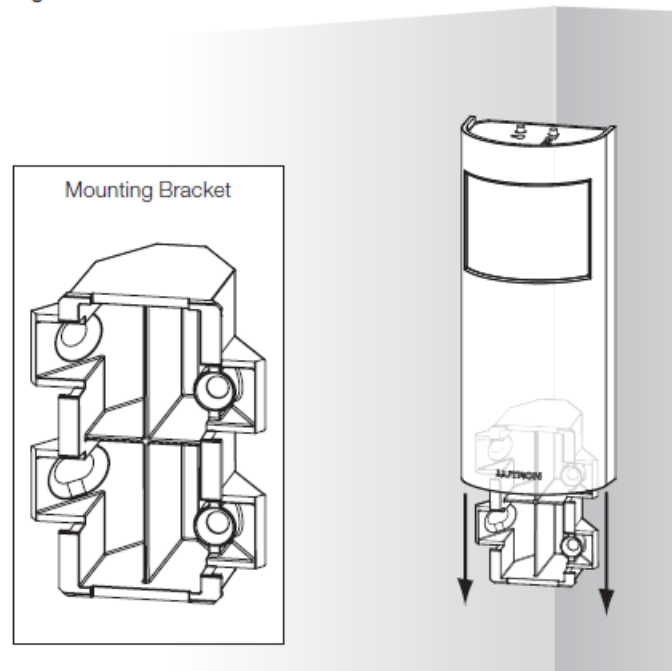
- The flat wall-mount, mounts directly to wall with mounting The flat wall-mount, mounts directly to wall with mounting bracket (included). See Figure A.

Figure A. Flat Wall-Mount



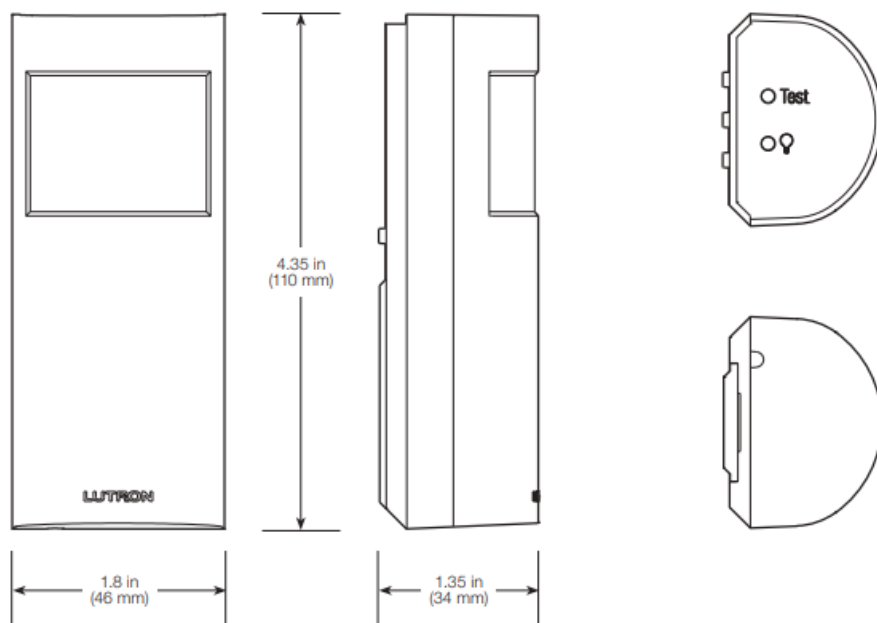
- The corner mount can be used to mount in a corner or on a wall offset from a corner (included). See Figure B.

Figure B. Corner-Mount



- Temporary mounting is recommended to test sensor coverage and wireless communication before permanently installing the sensor.
- Temporary mounting: A 3MT CommandT adhesive strip is provided for temporarily mounting and testing the sensor. This strip is designed for easy, damage-free removal and is not reusable.
- Permanent mounting: Mounting bracket, screws, and anchors are provided to mount the sensor.

## Dimensions

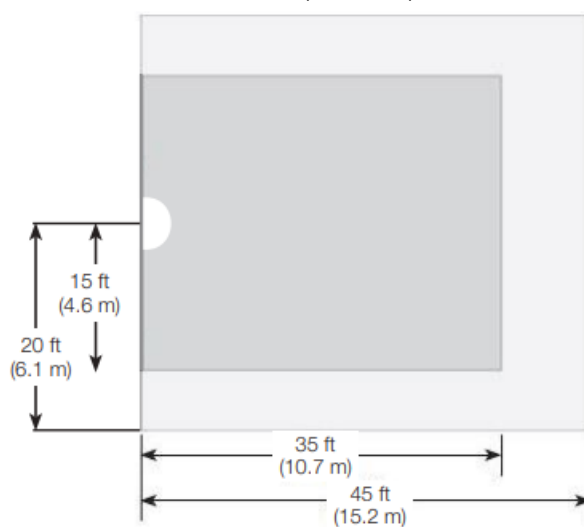


## Sensor Coverage

## Tested Coverage Area

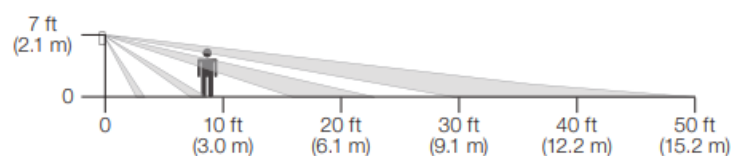
Major motion coverage: 20 X 2 X 45 = 1800 ft<sup>2</sup> (167.2 m<sup>2</sup>)

Minor motion coverage: 15 X 2 X 35 = 1050 ft<sup>2</sup> (97.5 m<sup>2</sup>)



## Vertical Beam Diagram\*

Vertical Beam Diagram\*




\* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 ft and 8 ft (1.6 m and 2.4 m).

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Documents / Resources



[LUTRON PD-OSENS, PD-VSENS Caseta Wireless Motion Sensor](#) [pdf] Owner's Manual  
PD-OSENS-WH, 3691125, PD-OSENS PD-VSENS Caseta Wireless Motion Sensor, PD-OSEN  
S PD-VSENS, Caseta Wireless Motion Sensor, Wireless Motion Sensor, Motion Sensor, Sensor

References

- [User Manual](#)

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