

## Wireless Wall-Mount Sensor

Lutron® wall-mounted occupancy and vacancy 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 occupancy sensor has 2 settings available: Auto-On/Auto-Off, and Manual-On/Auto-Off
- Vacancy model available to meet CA Title 24 requirements
- 10-year battery life design
- Passive infrared motion detection with exclusive Lutron XCT™ Technology
- 180° field of view:
  - Minor motion = 1500 ft<sup>2</sup> (139.4 m<sup>2</sup>)
  - Major motion = 3000 ft<sup>2</sup> (278.7 m<sup>2</sup>)
- 90° field of view:
  - Minor motion = 1225 ft<sup>2</sup> (113.8 m<sup>2</sup>)
  - Major motion = 2500 ft<sup>2</sup> (232.3 m<sup>2</sup>)
- Hallway version with long, narrow field of view:
  - Major motion = coverage of up to 150 ft (45.7 m)
- RoHS compliant
- 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
- Up to 3 sensors can be added to each RF dimming or switching device for extended coverage
- Each sensor may be added to up to 10 compatible RF dimming and switching devices for spaces with multiple zones of lighting
- The sensor should be mounted within 60 ft (18.3 m) line of sight or 30 ft (9.1 m) through walls, of the associated dimming and switching receiving devices



### Compatible RF Devices:

Communicates to the following wireless Lutron systems:

- Maestro® Wireless (MRF2)
- GRAFIK Eye® QS Wireless

### Models Available:

- LRF2-OWLB-P-WH 434 MHz  
*180° Wall-Mount Occupancy/Vacancy Sensor*
- LRF2-VWLB-P-WH 434 MHz  
*180° Wall-Mount Vacancy Sensor*
- LRF2-OKLB-P-WH 434 MHz  
*90° Corner-Mount Occupancy/Vacancy Sensor*
- LRF2-VKLB-P-WH 434 MHz  
*90° Corner-Mount Vacancy Sensor*
- LRF2-OHLB-P-WH 434 MHz  
*Hallway Occupancy/Vacancy Sensor*
- LRF2-VHLB-P-WH 434 MHz  
*Hallway Vacancy Sensor*

<b>Job Name:</b> <input style="width: 90%; height: 20px;" type="text"/>	<b>Model Numbers:</b> <input style="width: 95%; height: 20px;" type="text"/>	
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## Specifications

### Standards

- FCC · IC
- Meets CA Title 24 requirements
- COFETEL

### Environment

- Temperature: 32 °F - 104 °F (0 °C - 40 °C)
- For indoor use only

### Power

- Operating voltage: 3 V<sub>DC</sub>
- Operating current: 14 µA nominal
- Requires one CR 123 lithium battery
- 10-year battery life design
- Non-volatile memory (saved changes are stored during power loss)

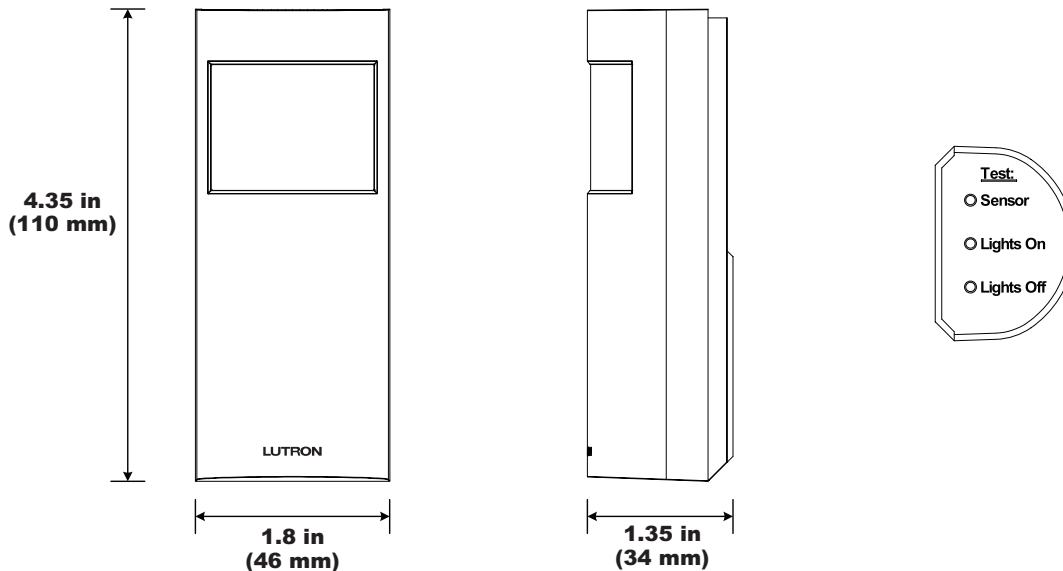
### Sensor Coverage Test

- Dedicated test button
- Lens illuminates orange in response to motion during test mode and is visible from 150 ft (45.7 m)

### Wireless Communication Test

- Dedicated test buttons
- Turn loads on and off

## Dimensions



### Timeout Options

- 1 minute
- 5 minutes
- 15 minutes \*
- 30 minutes

### Auto-On Options (Occupancy Version Only)

- "Enabled" \* - Sensor turns lights ON and OFF automatically.
- "Disabled" - Lights must be turned ON manually from dimming or switching device. Sensor turns lights OFF automatically.

### Sensitivity Options

- Low Activity\* (♻️)
- Medium Activity (🚶)
- High Activity (🏃)

\*-Default Settings

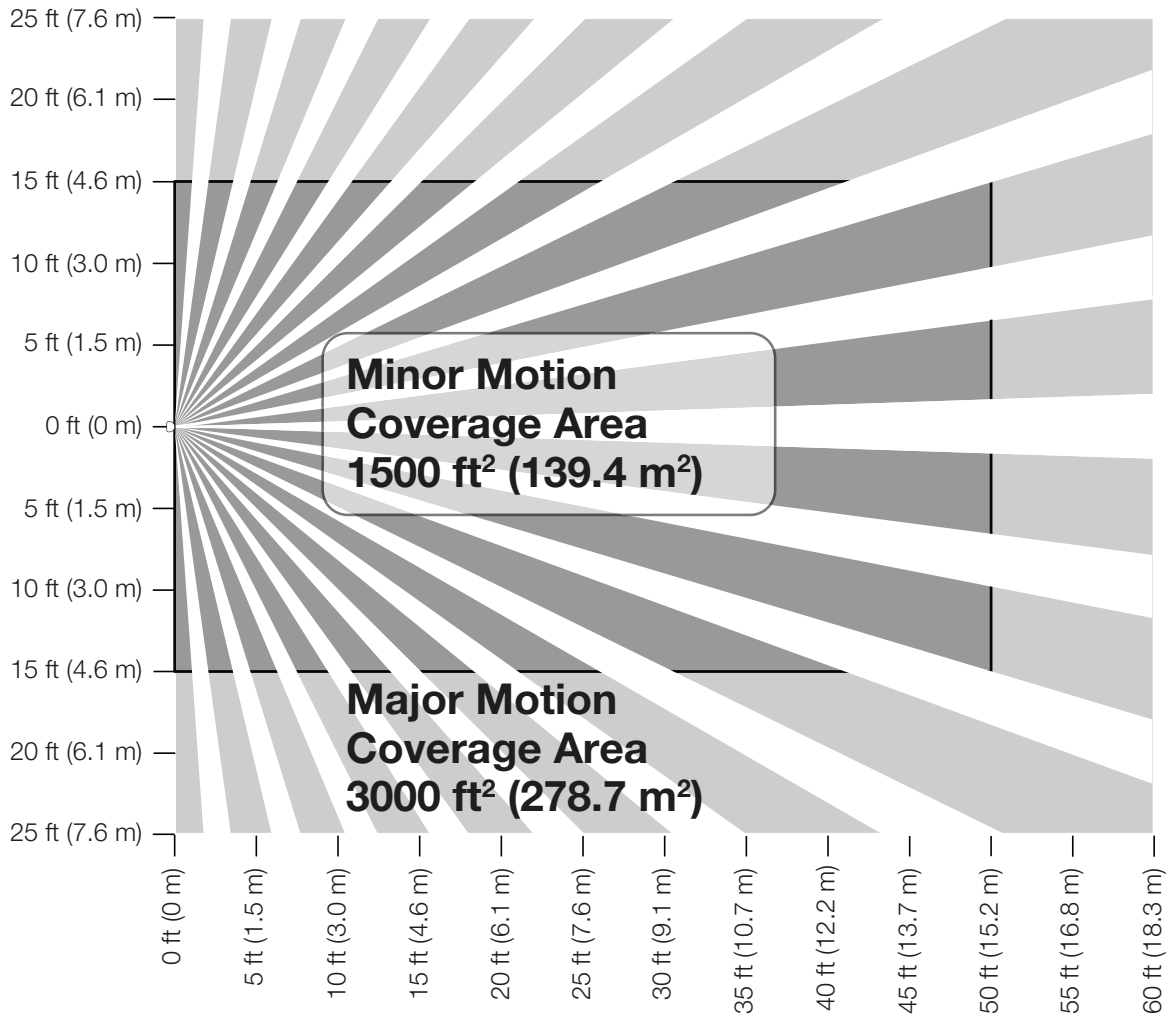
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## Coverage Diagrams

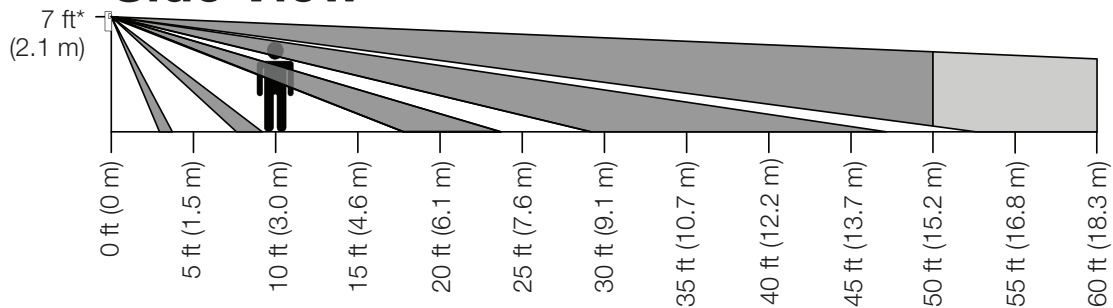
### 180° Wall-Mount Sensors

(Models: LRF2-OWLB-P-WH and LRF2-VWLB-P-WH)

## Top View



## Side View



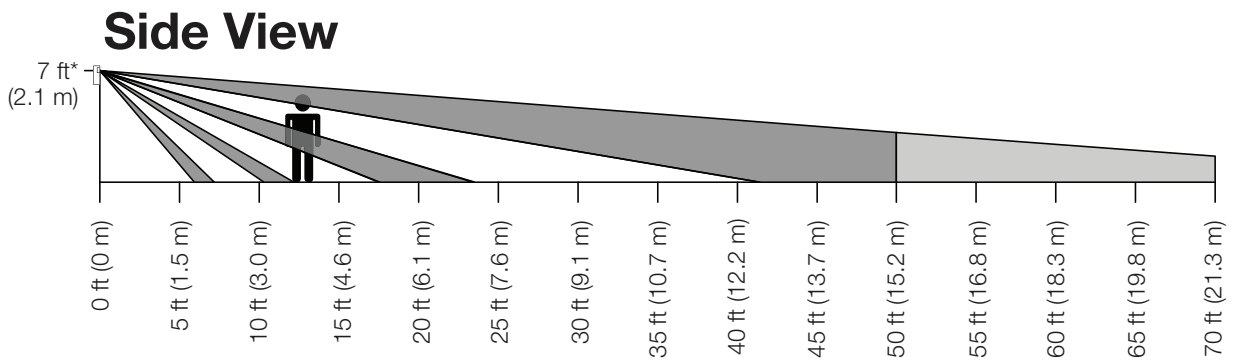
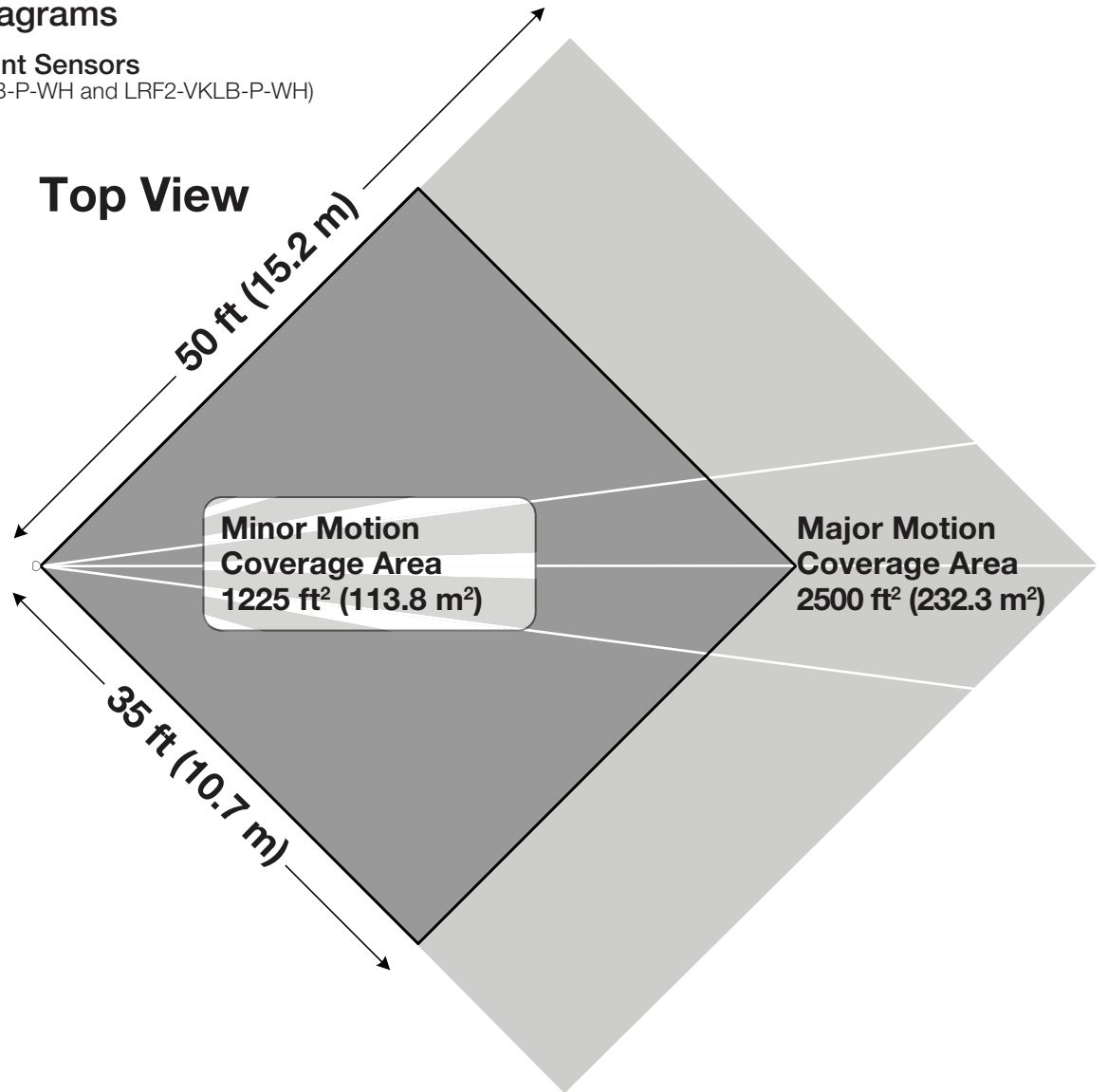
\* Sensor mounting shown at 7 ft (2.1 m). Mounting height should be between 6 and 8 ft (1.6 and 2.4 m).

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### Coverage Diagrams

#### 90° Corner-Mount Sensors

(Models: LRF2-OKLB-P-WH and LRF2-VKLB-P-WH)



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

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## Coverage Diagrams

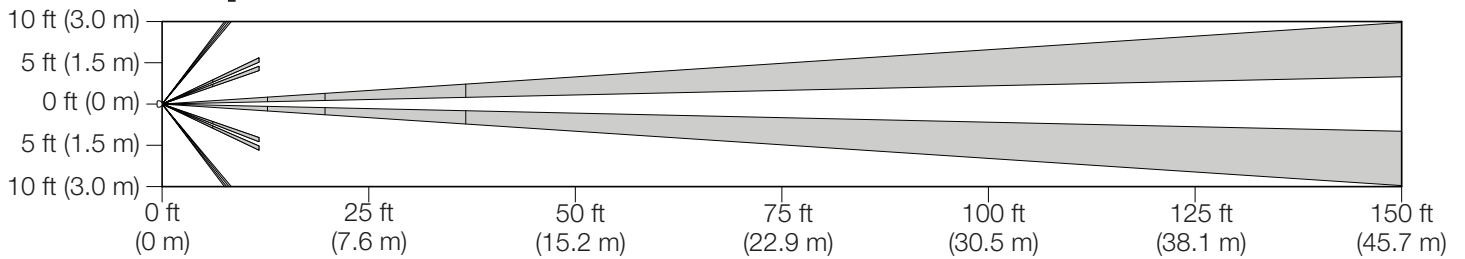
### Hallway Sensors

(Models: LRF2-OHLB-P-WH and LRF2-VHLB-P-WH)

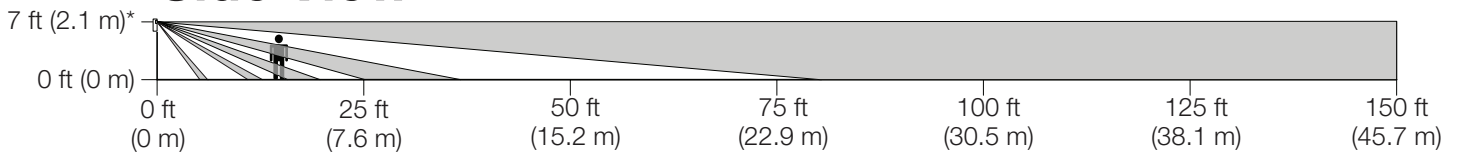
### Maximum Recommended Hallway Length

Width of Hall	Length of Hall
6 ft (1.6 m) or less	50 ft (15.2 m)
8 ft (2.4 m)	100 ft (30.5 m)
10 ft (3.0 m) or more	150 ft (45.7 m)

### Top View



### Side View



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

- Designed for mounting at end of hallway with view down length of hall.
- Detection at longer distances is best for motion occurring at right angles to the sensor.
- Up to three sensors can be used for additional coverage.

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## Installation Overview

### Sensor Placement

- The sensor’s mounting height should be between 6 and 8 ft (1.6 and 2.4 m)
- The sensor’s ability to detect motion requires line-of-sight of room occupants. The sensor must have an unobstructed view of the room. **DO NOT** mount behind or near tall cabinets, shelves, hanging fixtures, etc. The sensor cannot see through glass objects such as patio or shower doors.
- Hot objects and moving air currents can affect the sensor’s performance. To ensure proper operation, the sensor should be mounted at least 4 ft (1.2 m) away from light bulbs and HVAC vents.
- The sensor’s performance 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.
- The sensor should be mounted within 60 ft (18.3 m) line of sight or 30 ft (9.1 m) through walls, of the associated dimming and switching receiving devices.

### Set Up Sensor with Receiving Device

#### GRAFIK Eye® QS Wireless

- Press and hold “Lights On” and “Lights Off” buttons on sensor simultaneously for 3 seconds to enter set-up
- Press and hold on/off button on receiving device for 3-6 seconds
- Load will flash 3 times upon successful association
- Press and hold “Lights On” and “Lights Off” buttons simultaneously for 3 seconds to exit set-up

#### Maestro Wireless®

- Press and hold on/off button on receiving device for 6 seconds
- Press and hold “Lights Off” button on sensor for 6 seconds
- Load will flash 3 times upon successful association

### Advanced Set-Up

#### (Adjusting Timeout, Activity and Auto-On)

##### Check Settings:




- Press and release desired button;
- LED indicates current setting

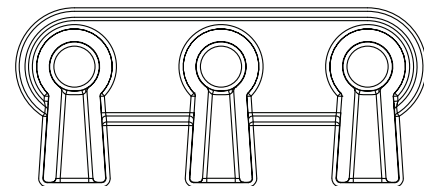
##### Change Settings:

- Press and hold desired button until LED flashes
- Press button again to select setting
- Press and hold button until LED turns on solid to save setting

##### Change Settings (1-minute timeout):

- Press and hold timeout button (~10 sec) until all 3 LEDs flash
- Press and hold button until all 3 LEDs turn on solid to save 1-minute timeout setting

	Timeout	Activity	Auto-On
<input type="radio"/>	30 min		Enabled
<input type="radio"/>	15 min		
<input type="radio"/>	5 min		Disabled



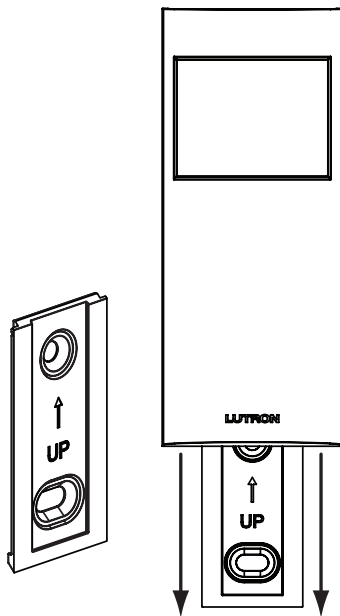
Default Settings	
Timeout	15 Minutes
Activity	Low Activity (⚡)
Auto-On	Enabled

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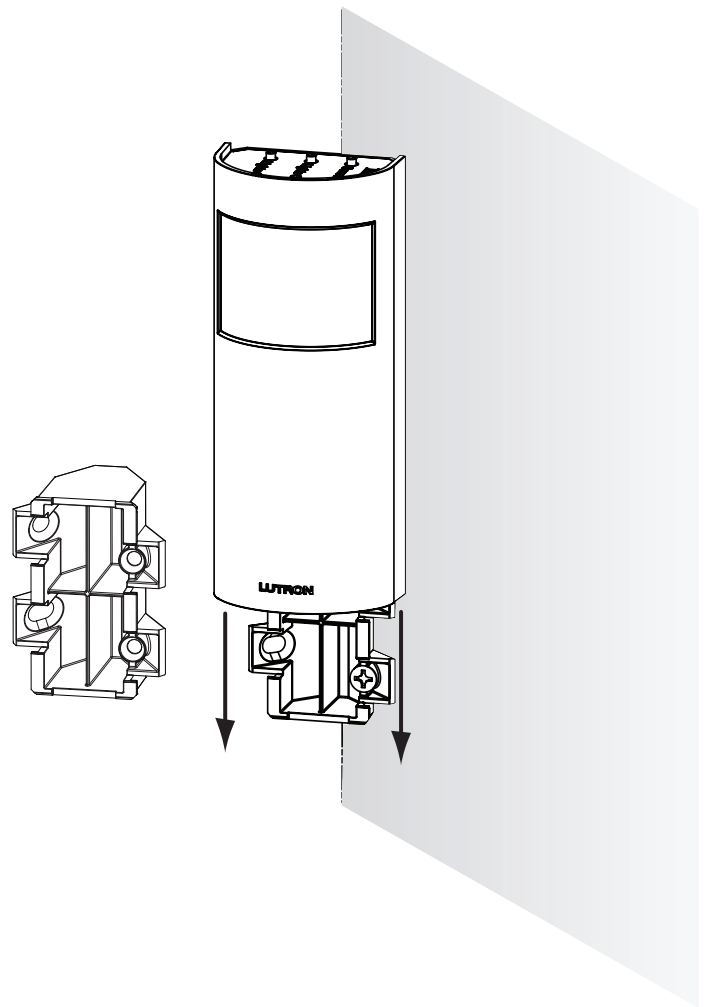
### Mounting

- 180° and hallway sensors mount directly to wall with mounting bracket (included). See figure below.
- 90° sensors mount directly in corner or on wall offset away from corner with mounting bracket (included). See figure below.
- Temporary mounting is recommended to test sensor coverage and wireless communication before permanently installing the sensor.
  - Temporary mounting: 3M™ Command™ adhesive strips are provided for temporarily mounting and testing the sensor. These strips are designed for easy, damage-free removal and are not reusable.
  - Permanent mounting: Mounting bracket, screws and anchors provided to mount sensor.

#### 180° Wall-Mount Sensor & Hallway Sensor



#### 90° Corner-Mount Sensor



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