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Vive™ Basic Packages

The Vive™ Basic Package incorporates Maestro® load controls and wireless sensors which provides a system that delivers energy savings, convenience, and ease of installation.

Maestro Wireless® switches use Lutron® patented Clear Connect® RF Technology, which enables wireless communication with Radio Powr Savr™ sensors for light control.

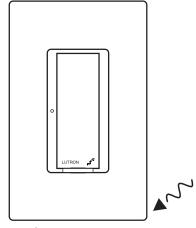
These products are also compatible with the Vive_{TM} hub which enables a simple setup process using a standard web browser on any Wi-Fi enabled phone, tablet or computer. It also enables control and monitoring of all Vive_{TM} devices. The Vive_{TM} hub can be added at any time and preserves existing system setup by extracting local programming from each device. For a complete list of features supported with the Vive_{TM} hub, see specification submittal 369902. **Note for Replacement:** MRF2S - the "S" model can replace the non-"S" model.

Features

- The Vive™ Basic package provides switching and occupancy/vacancy sensing of multiple load types.
- Lutron® patented Clear Connect® RF Technology works through walls and floors.
- Controls include Front Accessible Service Switch (FASS™) for safe lamp replacement.
- Two-wire installation for any retrofit application.
- Power failure memory: If power is interrupted, the control will return to its previously set level prior to interruption.

Receiving Devices

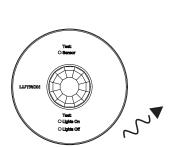
Maestro Wireless® Control



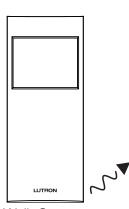
RF Switch

Transmitting Devices

Radio Powr Savr_{TM} Sensors



Ceiling-Mounted Occupancy and Vacancy Sensor



Wall, Corner, or Hall Mounted Occupancy and Vacancy Sensor

SPECIFICATION SUBMITTAL

ELUTRON ® SPECIFICATION SUBMITTAL		Page
Job Name:	Model Numbers:	
Job Number:		

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Vive™ Basic Packages

Model Numbers	
MRF2S-1S8A-1OC	(1) 8 A Switch, (1) Radio Powr Savr™ ceiling sensor
MRF2S-1S8A-1OH	(1) 8 A Switch, (1) Radio Powr Savr™ hallway senso
MRF2S-1S8A-1OK	(1) 8 A Switch, (1) Radio Powr Savr™ corner sensor
MRF2S-1S8A-1OW	(1) 8 A Switch, (1) Radio Powr Savr™ wall sensor
MRF2S-1S8A-1VC	(1) 8 A Switch, (1) Radio Powr Savr™ ceiling vacancy sensor
MRF2S-2S8A-1OW	(2) 8 A Switches, (1) Radio Powr Savr™ wall sensor

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

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Maestro Wireless_® Switch

Model Number

Switch

Lighting and motor loads

MRF2S-8S-DV-XX1 8 A Lighting, 3 A Fan (1/10 HP

motor, 120 V~ only), Spec Grade Electronic Switch 120-277 V∼, NO NEUTRAL

WIRE REQUIRED

Companion Controls

Claro_® Gloss Finishes

MA-AS-XX1 Companion Switch 120 V~ MA-AS-277-XX1 Companion Switch 277 V∼

Satin Colors_® Satin Finishes

MSC-AS-XX1 Companion Switch 120 V~ MSC-AS-277-XX1 Companion Switch 277 V∼

Switch





Companion Switch

MA-AS-XX

¹ XX in the model number represents Color/Finish code. See Page 7 for **Colors and Finishes**.

Switch Load Type and Capacity

No Neutral Required

Job Name:

Control	Voltage	Load Type		Maximum Load		
		Load	Load	Not Ganged	End of Gang	Middle of Gang
MRF2S-8S-DV ^{1,2}	120–277 V∼	Incandescent/ Halogen	25 W	8 A	8 A/7 A ³	7 A
	120–277 V∼	Fluorescent/ LED/CFL	40 W (LUT-MLC) ⁴	8 A	8 A/7 A ³	7 A
	120 V∼	Fan Motor	0.4 A	1/10 HP 3 A	1/10 HP 3 A	1/10 HP 3 A

¹ Switch Load Type: MRF2S-8S-DV is designed for use with permanently installed lighting loads and with fan motor loads up to 1/10 HP (3 A, 120 V~ only).

LUTRONSPECIFICATION SUBMITTAL

Model Numbers: Job Number:

² Switch Load Type: MRF2S-8S-DV are designed for use with permanently installed lighting loads.

 $[{]f 3}$ Maximum load for double gang application is 8 A. Triple gang application derates maximum load to 7 A.

⁴ The LUT-MLC (included) ensures proper function with certain fluorescent, CFL, and LED load types.

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Specifications

Regulatory Approvals

- UL_® Listed.
- CSA Certified.
- FCC Approved. Complies with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
- Industry Canada Certified.

Power

Operating voltage: 120–277 V∼ 50/60 Hz

Key Design Features

Switch

• On a single-tap, lights turn ON or OFF.

All RF Local Controls

- Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
- Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
- Controls always operate locally and do not require system control.
- Power failure memory: should power be interrupted, the control will return to its previously set level prior to the interruption when power is restored.
- Uses conventional Single-pole, 3-way and 4-way wiring.
- Multiple location control from Switch and up to 9 Companion Switches.
- Use Lutron® Designer (Claro® and Satin Colors®) wallplates or designer-style wallplates from other manufacturers. Wallplates are sold separately.
- Lutron Claro_® and Satin Colors_® wallplates snap on with no visible means of attachment.
- Requires a 1-gang U.S. wallbox. 3½ in (89 mm) deep recommended, 2¼ in (57 mm) deep minimum.
- Green indicator light.

Job Number:

System Communications and Capacity

- Maestro Wireless® controls communicate with the Pico® remote controls and Radio Power Savr™ sensors through radio frequency (RF).
- Receives wireless inputs from up to 10
 Pico_® remote controls, 10 Radio Powr Savr™
 occupancy/vacancy sensors, and 1 Radio Powr
 Savr™ daylight sensor
- Maestro Wireless_® local controls must be located within 60 ft (18 m) line of sight or 30 ft (9 m) through walls, of Radio Power Savr_™ sensors.
- Maestro Wireless® local controls must be located within 60 ft (18 m) line of sight or 30 ft (9 m) through walls, of a Pico® remote control.
- Up to 10 Maestro Wireless
 ontrols can be configured to work together.
- Sensors can be assigned to multiple switches.

Environment

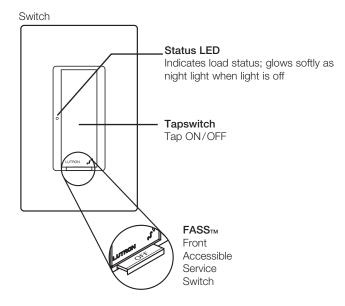
- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C)
- 0%-90% relative humidity, non-condensing.
- Indoor use only.

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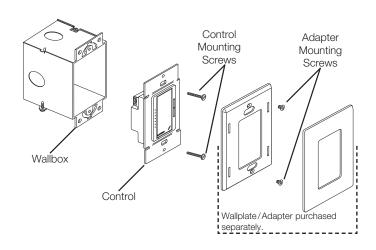
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Operation



Mounting

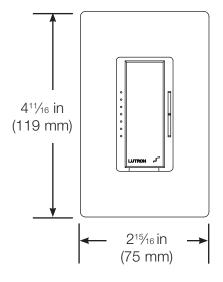


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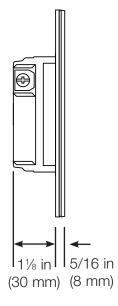
 $\textbf{FASS}_{\text{TM}} \text{ - Front Accessible Service Switch - to service load, remove power by pulling the FASS}_{\text{TM}} \text{ switch out completely on either the Switch or Companion Switch. After servicing load, push the FASS}_{\text{TM}} \text{ switch back in fully to restore power to the control.}$

Dimensions

Front View



Side View



LUTRON SPECIFICATION SUBMITTAL

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Job Number:	

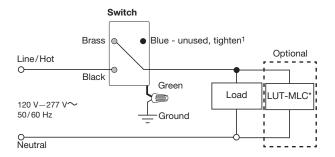
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Page

Wiring Diagrams

Single Location Installation

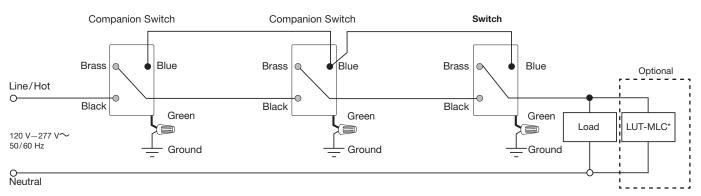
MRF2S-8S-DV



*A LUT-MLC ensures proper function when fluorescent, CFL, or LED loads are used. Install the LUT-MLC inside a load fixture or in a separate J-box of the circuit.

Multi-Location Installation²

MRF2S-8S-DV3 with MA-AS/MA-AS-277 or MSC-AS/MSC-AS-277



- ¹ When using controls in single location installations, tighten the blue terminal without any wires attached. **DO NOT** connect the blue terminal to any other wiring or to ground.
- ² Up to 9 Maestro® Companion Switches may be connected to the Maestro Wireless® Switch. Total blue terminal wire length may be up to 250 ft (76 m).
- 3 Requires MA-AS/MSC-AS for 120 V \sim applications, and MA-AS-277/MSC-AS-277 for 277 V \sim applications.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

Colors and Finishes

Gloss Finishes











Almond

Light Almond





Biscuit



SW

TC

GS



AL





TP

Midnight MN



BI









Greenbriar GB



BG

Mocha

Stone

MS



Due to printing limitations, colors and finishes shown cannot be guaranteed to perfectly match actual product colors.



Desert Stone DS

Stone

Limestone LS

Metal Finish (wallplate only)



Stainless Steel

When using Stainless Steel wallplates, it is recommended to order the controls in Black (BL) or Midnight (MN).

LUTRON SPECIFICATION SUBMITTAL

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Radio Powr Savrm Wireless Occupancy/Vacancy Ceiling Sensor

Lutron® Radio Powr Savr™ occupancy/vacancy sensors are wireless, battery-powered passive infrared (PIR) sensors that automatically control lights via RF communication to compatible dimming and 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 and switching devices to turn the lights on or off automatically. They combine both convenience and exceptional energy savings potential along with ease of installation.

Features

- Wireless occupancy sensor has 3 settings available: Auto-ON/Auto-OFF, Auto-ON Low-Light/Auto-OFF, and Manual-ON/Auto-OFF
- Auto-ON Low-Light feature will only turn lights on automatically if there is less than approximately 10 Lux

(1 fc) of ambient light

- Vacancy only model available to meet California (U.S.A.) Title 24 requirements
- Uses Clear Connect_® technology
- Passive infrared motion detection with exclusive Lutron® XCT™ Technology for fine motion detection
- 360° coverage ranges from 324 ft² (30.2 m²) to 676 ft² (62.4 m²), depending on mounting height. See range diagrams for more details.
- Simple and intuitive adjustments available for Timeout, Auto-ON, and Activity settings
- Supports advanced occupancy features, such as dependent occupancy groups and customizable occupied/unoccupied presets in some systems
- Multiple sensors can be added for extended coverage—refer to product specification submittal of receiving device to determine system limits
- Lens illuminates during test mode to verify ideal locations
- Multiple ceiling-mount methods available for different ceiling materials
- Front accessible test buttons make programming easy
- 10-year battery life design
- RoHS compliant

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Job Name:	Model Numbers:	
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Specifications

Regulatory Approvals

- FCC certified
- IC certified
- Meets CA (U.S.A.) Energy Commission Title 24 requirements
- COFETEL
- ANATEL
- SUTEL
- Lutron® Quality Systems Registered to ISO 9001:2008

Power/Performance

- Operating voltage: 3 V ===
- Operating current: 14 μA nominal
- Requires one CR 123 lithium battery
- 10-year battery life
- 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

Range

Local load controls must be located within 60 ft (18 m) line of sight, or 30 ft (9 m), through walls, of a sensor.

Sensor Coverage Test

- Front accessible test button
- Lens illuminates orange in response to motion during test mode and is visible from 60 ft (18 m)

Wireless Communication Test

- Front accessible 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.
- "Low Light" Sensor turns lights ON automatically only in low ambient light conditions. Sensor turns lights OFF automatically.
- "Disabled" ** Lights must be turned ON manually from dimming or switching device. Sensor turns lights OFF automatically.

Activity Options

- Low Activity (3) default setting
- Medium Activity (₹)
- High Activity (乳)
- * Intended for use in high-activity, briefly occupied areas only
- ** 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.

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Installation Overview

Sensor Setup

 Sensor setup is available as a service by Lutron. For more information see the Sensor Layout and Tuning service document (Lutron_® P/N 3601235).

Sensor Placement

- The ability of the sensor 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, ceiling fans, etc. The sensor cannot see 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 HVAC vents and light bulbs that are below the ceiling line.
- 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 ability of the sensor to detect occupants.

Mounting

Temporary mounting is optional to test sensor coverage and wireless communication before permanently installing the sensor.

Drop Ceiling (Compressed Fiber Ceiling Tile)

The mounting wire is provided for both temporary and permanent mounting of the sensor to ceiling tiles. It is designed to allow temporary mounting, testing, and repositioning (if necessary) of the sensor without damaging a ceiling tile. Once the final position of the sensor has been chosen, the mounting wire should be twisted together to permanently secure the sensor in place.

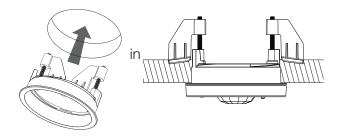
Solid Ceiling (Drywall, Plaster, Concrete, or Wood)

- Temporary mounting: Ten (10) temporary mounting strips can be purchased in the kit L-CMDPIRKIT for temporarily mounting and testing the sensor.
- Permanent mounting: Screws and anchors (for drywall or plaster) provided to mount the sensor.

Recess Mount

- Do not recess mount sensor in a metal surface.
- Recess mounting ring requires an opening of 3 in (76 mm) diameter.
- Recess mounting ring secures internally to ceiling. Sensor twists into the recess mounting ring and sits flush with ceiling (see image to right).



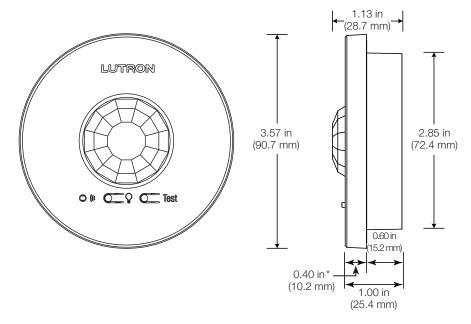


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Dimensions



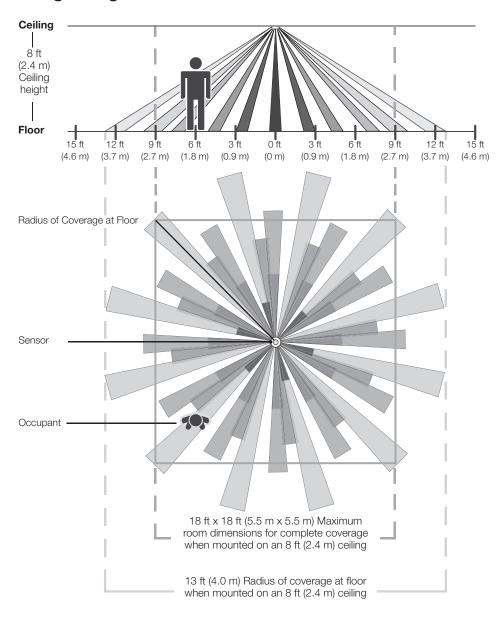
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Job Name:	Model Numbers:
Job Number:	

^{*} With the recess mounting kit 0.46 (11.7 mm) is below the plane of the ceiling.

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Range Diagrams



Sensor Coverage Chart (for sensor mounted in center of room)

Ceiling Height	Maximum Room Dimensions for Complete Floor Coverage*	
8 ft (2.4 m)	18 ft x 18 ft (5.5 m × 5.5 m)	324 ft² (30.2 m²)
9 ft (2.7 m)	20 ft x 20 ft (6.1 m x 6.1 m)	400 ft² (37.2 m²)
10 ft (3.0 m)	22 ft x 22 ft (6.7 m × 6.7 m)	484 ft² (44.9 m²)
12 ft (3.7 m)	26 ft x 26 ft (7.9 m x 7.9 m)	676 ft² (62.4 m²)

^{* 12} ft (3.7 m) is the recommended maximum mounting height

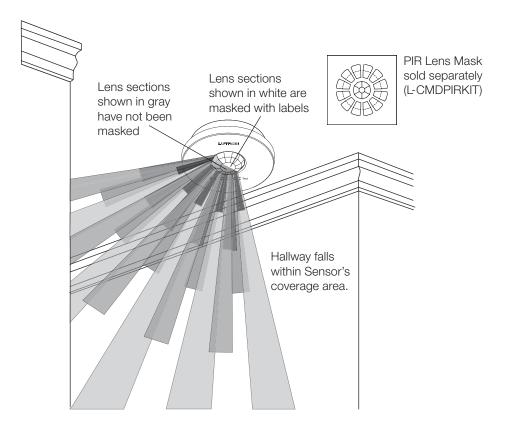
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Lens Masking

Whenever possible, the sensor should be installed in a location where it cannot view areas outside the intended space, such as hallways or adjacent rooms. If this situation cannot be avoided, portions of the lens may be masked to block the view of the sensor into undesired areas. Ten (10) PIR Lens Masks can be purchased in the kit L-CMDPIRKIT.



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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/vacancy sensor has 2 settings available: Auto-ON/Auto-OFF, and Manual-ON/Auto-OFF
- Vacancy model meets California Title 24 requirements
- Passive infrared motion detection with exclusive Lutron_®
 XCT_™ Technology for fine motion detection
- 180° field of view model:

Minor motion = $1500 \text{ ft}^2 (139.4 \text{ m}^2)$ Major motion = $3000 \text{ ft}^2 (278.7 \text{ m}^2)$

• 90° field of view model:

Minor motion = $1225 \text{ ft}^2 (113.8 \text{ m}^2)$ Major motion = $2500 \text{ ft}^2 (232.3 \text{ m}^2)$

• Hallway model with long, narrow field of view:

Major motion = coverage of up to 150 ft (45.7 m)

- 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

Job Number:

Compatible RF Devices

- For use with Lutron® products only
- Communicates to various wireless Lutron_® Clear Connect_® systems*
- * Contact Lutron Customer Service at www.lutron.com for frequency/channel code compatibility with your particular geographic region, and for integrating with other Lutron® lighting and shading products.

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Specifications

Regulatory Approvals

- cULus Listed
- FCC certified
- IC certified
- COFETEL certified
- ANATEL certified
- SUTEL certified
- Meets CA (U.S.A.) Energy Commission Title 24 requirements
- Lutron_® Quality Systems Registered to ISO 9001:2008

Power/Performance

- Operating voltage: 3 V ===
- 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)

Environment

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

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.

Sensitivity Options

- Low Activity (3) default setting
- Medium Activity (₹)
- High Activity (乳)
- * Intended for use in high-activity, briefly occupied areas only
- ** 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.

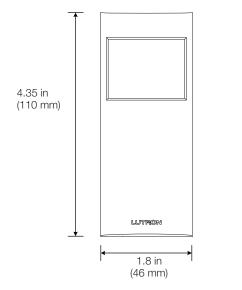
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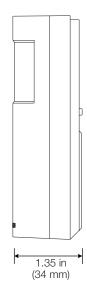
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Dimensions









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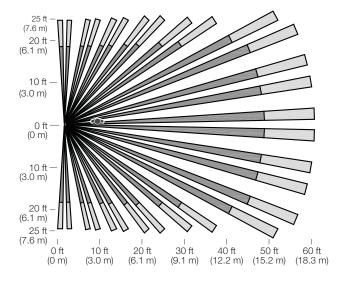
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Coverage Diagrams

180° Wall-Mount Sensors

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

Horizontal Beam Diagram

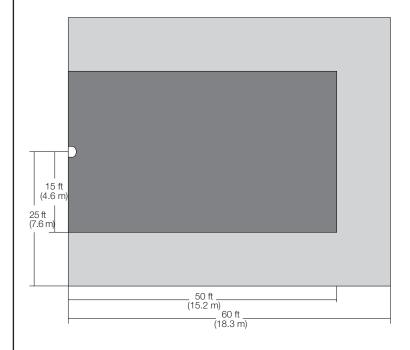


Tested Coverage Area

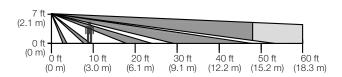
Major Motion 3000 ft² (278.7 m²) coverage

Minor Motion 1500 ft² (139.4 m²) coverage

Compliant to NEMA WD7 test grid shown below



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).

LUTRON SPECIFICATION SUBMITTAL

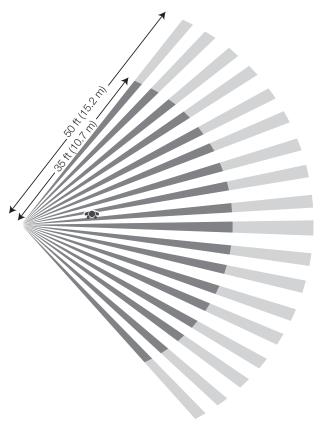
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Coverage Diagrams

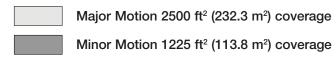
90° Corner-Mount Sensors

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

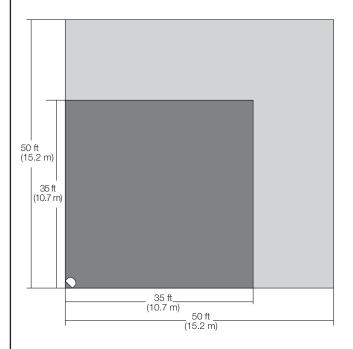
Horizontal Beam Diagram



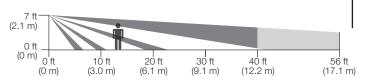
Tested Coverage Area



Compliant to NEMA WD7 test grid shown below



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).

LUTRON SPECIFICATION SUBMITTAL

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Coverage Diagrams

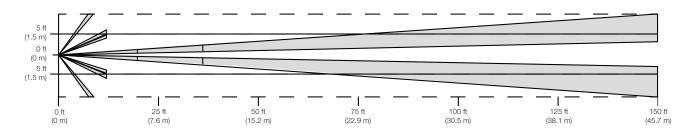
Hallway Sensors

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

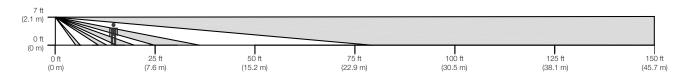
Maximum Recommended Hallway Length

Width of Hall	Length of Hall
6 ft (1.8 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 ft and 8 ft (1.8 m and 2.4 m) and centered within hallway.
- Designed to mount at the end of a hallway with a clear view down the length of a hall.
- Detection at longer distances is best when motion occurs at right angles to the sensor.
- Multiple sensors can be used to extend coverage.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

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Installation Overview

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 less than 12 ft x 12 ft (3.7 m x 3.7 m), detection may be improved by mounting the sensor at 6 ft (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** mount behind or near tall cabinets, shelves, hanging fixtures, etc. 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.

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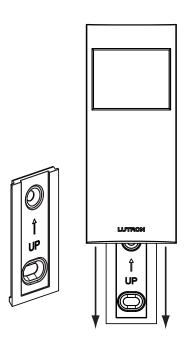
Job Name:	Model Numbers:
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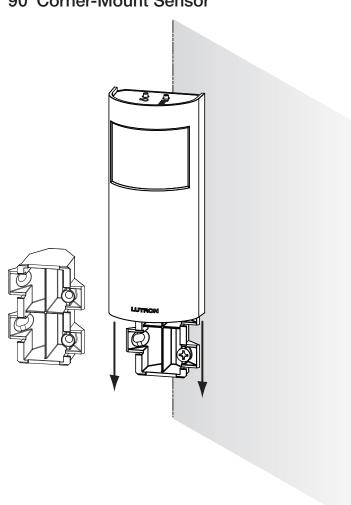
Mounting

- 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: A 3M_™ Command_™ 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 sensor.
 - Flexible Armature Mounting Kit P/N LRF2-MTG-KIT-CPN5991 (sold separately): A flexible sensor mounting bracket which allows sensor to be mounted at right angles and at greater heights to increase coverage area.

180° Wall-Mount Sensor & Hallway Sensor



90° Corner-Mount Sensor



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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	