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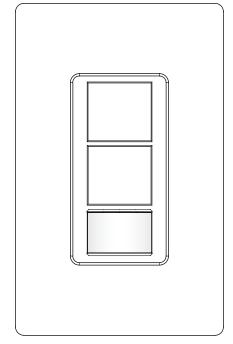
Maestro_® Dual-Circuit Occupancy Sensing Switch

The Lutron® Maestro® Dual-Circuit Occupancy Sensing Switch combines two switches with an in-wall, passive infrared (PIR) occupancy or partial-on sensor. The sensor is intended for either:

- · Control of two circuits
- Bi-level control of two circuits, as required by certain energy codes (e.g., ASHRAE)

Features

- Passive infrared sensor with exclusive Lutron_® XCT_™ Technology for minor motion detection
- 180° sensor field-of-view
- Tamper-resistant PIR lens
- Up to 30 ft x 30 ft (9 m x 9 m) [900 ft² (81 m²)] major motion coverage and 20 ft x 20 ft (6 m x 6 m) [400 ft² (36 m²)] minor motion coverage
- Smart Ambient Light Detection (ALD) mode uses adaptive algorithm: Sensor learns the user's preferred light level over time.
- Occupancy version can be set to Auto-ON/Auto-OFF or Manual-ON/Auto-OFF
- Meets Title 24/Title 20 requirements for multi-level lighting. Partial-ON only (PPS6-DDV) version available to meet Title 24/Title 20 requirements for Partial-ON sensors.
- Adjustable timeout for each circuit (1, 5, 15, or 30 minutes)
- Sensitivity adjustment (High/Low)
- Switches all lighting loads: incandescent, halogen, ELV, MLV, CFL, LED, magnetic fluorescent, electronic fluorescent.
- Switches fan loads at 120 V∼.
- Single-pole only.



MS-OPS6-DDV-XX¹ (Occupancy model²) MS-PPS6-DDV-XX¹ (Partial-ON only model²)

- 1 "XX" in the model number represents color/finish code. See Colors and Finishes at end of document.
- ² Wallplate not included

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Specifications

Regulatory Approvals

- UL Listed to U.S. and Canadian safety requirements
- Title 20/24 certified lighting control device
 - Complies with Title 20 and Title 24 Section 119 (Until Jan 1st, 2014)
 - Complies with Title 20 and Title 24 Section 110.9 (After Jan 1st, 2014)

Power/Load Control

• 120-277 V∼ 50/60 Hz

Key Design Features

- Switches all lighting loads
- 6 A of lighting load per circuit at 120−277 V~
- 4.4 A (1/6 HP) of fan load per circuit at 120 V \sim
- Crush/tamper resistant lens
- Smart Ambient Light Detection (ALD)
- Adaptive zero-cross switching algorithm for extended relay life (patent pending)
- XCT™ Technology for minor motion detection

Environment

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

Warranty

5-Year Limited Warranty. For additional Warranty information, please visit www.lutron.com/ TechnicalDocumentLibrary/Sensor Warranty.pdf

Additional Information

- For single-circuit Maestro® Occupancy Sensing Switch models, please see Lutron® P/N 369666
- For Maestro® Occupancy Sensor C•L® Dimmer models, please see Lutron® P/N 369748
- For more information, please see www.lutron.com/occvacsensors
- Lutron Technical Hotline: 1.800.523.9466.

Advanced Features

Switching

Adaptive zero-cross switching (patent pending) - maximizes relay life by switching at the point of minimum energy on the AC power curve. Actively adapts to variations in relay timing.

XCT™ Technology

Advanced sensing technology for minor motion detection ensures that the lights stay on while the room is occupied, and that the sensor does not turn on falsely when there is no occupancy in the room. For more information, see www.lutron.com/XCTWhitePaper

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Custom Settings

(defaults shown in **Bold**)

- Timeout (applies to individual circuits)
 - Test mode
 - 1 min
 - 5 min
 - 15 min
 - 30 min
- Sensor Modes* (apply to individual circuits)
 - Auto-ON/Auto-OFF¹ (Occupancy mode)
 - Manual-ON/Auto-OFF² (Partial-On mode)
- Advanced Auto-ON Modes (apply to all Auto-ON circuits)
 - Ambient Light Detection (ALD) mode:
 - Lights turn on only when natural light in the room is low
 - Smart-Ambient light threshold adjusts to the user's preference

- Off-While-Occupied Enabled (OWO)

- When the Occupancy Sensing Switch is manually turned off, the Occupancy Sensing Switch will not turn the lights back on automatically while the room is occupied.
- Once the room is vacated, the Auto-ON feature returns to normal operation after the timeout period has expired.
- This may be the preference in conference rooms or classrooms while viewing presentations.
- Off-While-Occupied Disabled
 - When the Occupancy Sensing Switch is manually turned off, the Auto-ON feature will return to normal operation after 25 seconds.
 - When the unit is manually turned off, after 25 seconds the unit will turn back on if motion is detected.
 - This setting may be the preference for high-traffic areas where it is important to ensure that the lights always respond to occupancy (e.g., bathroom, laundry room, utility closet).
- Sensitivity (applies to both circuits)
 - High sensitivity
 - Low sensitivity
 - Restore ALL defaults

Custom Settings at-a-glance

	Circuit 1	Circuit 2	
	Test mode	Test mode	
	1 min	1 min	
Timeout	5 min	5 min	
	15 min	15 min	
	30 min	30 min	
Sensitivity	High		
Sensitivity	L	_OW	
Sensor	Auto-ON/Auto-OFF (Occupancy) ¹	Auto-ON/Auto-OFF (Occupancy)	
Modes*	Manual-ON/Auto-OFF (Partial-ON)	Manual-ON/Auto-OFF (Partial-ON) ²	
Advanced	Ambient Light Detection (ALD)		
Auto-ON	Off-While-Occupied Enabled (OWO)		
Modes	Off-While-Oc	cupied Disabled	

- * Default settings shown in this section are locked in the MS-PPS6-DDV (Partial-ON only) to satisfy the CEC 2013 Title 24 definition for a "Partial-ON" sensor
- Default setting for circuit 1
- Default setting for circuit 2

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Dual-Circuit Switch with Occupancy/Partial-On Sensor Maestro_®

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Sensor

Load Type and Capacity

Control	Voltage	Load Type	Minimum Load	Maximum Load (Anywhere in Gang)	Neutral Connection Required	Ground Connection Required
	120 V~	Lighting ^{1, 2}		6 A per circuit		
MS-OPS6-DDV	120 0	Fan ²	0.4	4.4 A (1/6 HP) per circuit	NO	VEC
MS-PPS6-DDV	120−277 V~	Lighting ¹	0 A	6 A per circuit	NO	YES

Occupancy Sensing Switch Load Type: designed for use with permanently installed incandescent, halogen, MLV, ELV, CFL, LED, magnetic fluorescent, and electronic fluorescent lighting loads.

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When controlling light and fan loads simultaneously on a single circuit, maximum load capacity per circuit is 4.4 A at 120 V \sim .

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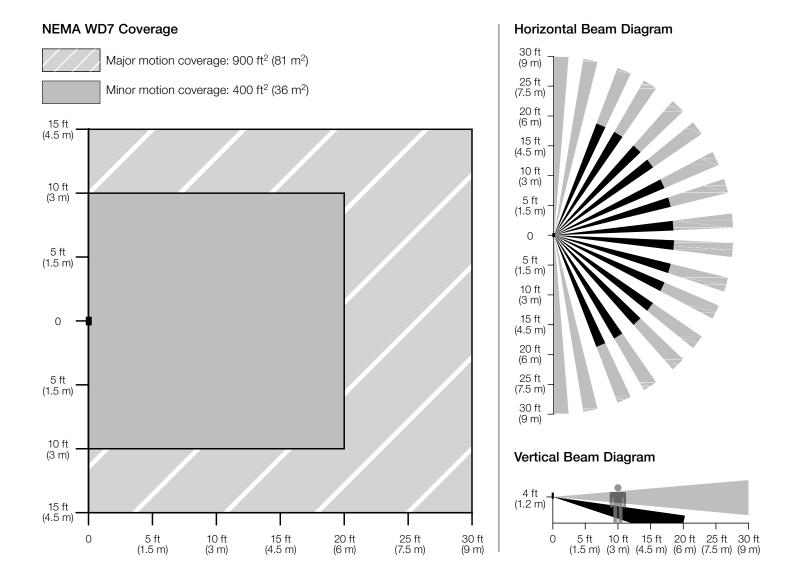
Occupancy Sensing Switch Placement and Operation

- The ability of the Occupancy Sensing Switch to detect motion requires line-of-sight of room occupants. The Occupancy Sensing Switch must have an unobstructed view of the room.
- Hot objects and moving air currents can affect the performance of the Occupancy Sensing Switch. Switch performs best when located 4 ft (1.2 m) or more away from hot objects or moving air currents.
- The performance of the Occupancy Sensing Switch depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the ability of the Occupancy Sensing Switch to detect occupants.

Definitions

Major motion: movement of a person entering or passing through an area.

Minor motion: movement of a person occupying an area and engaging in small activities (e.g., reaching for a telephone, turning the pages of a book, opening a file folder, picking up a coffee cup).



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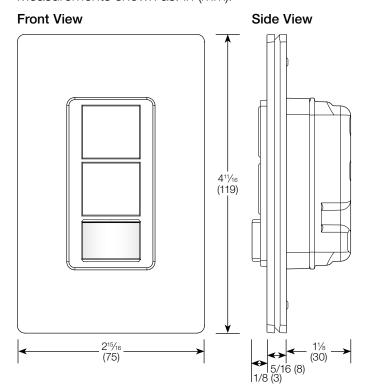
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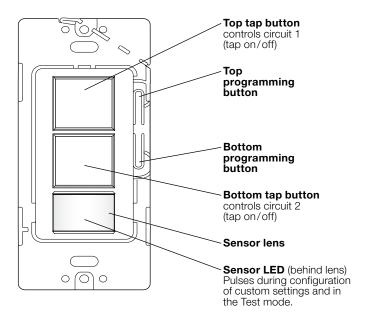
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Dimensions

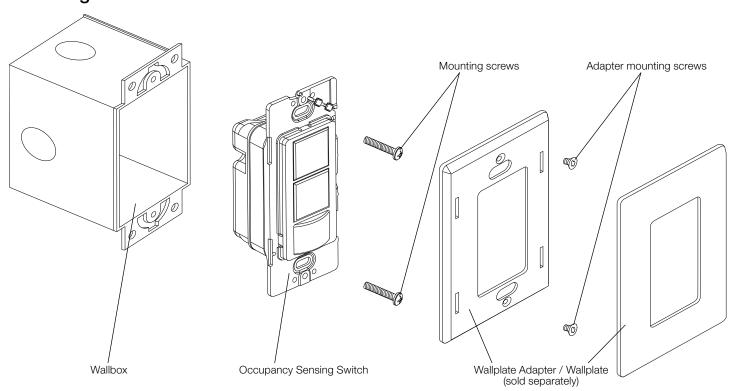
Measurements shown as: in (mm).



Operation



Mounting



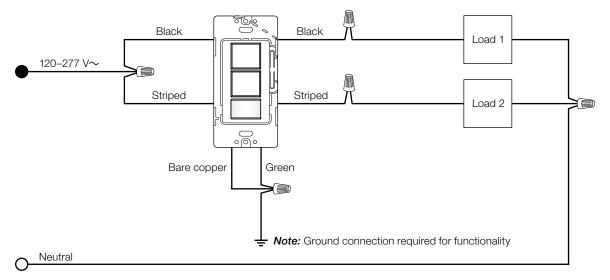
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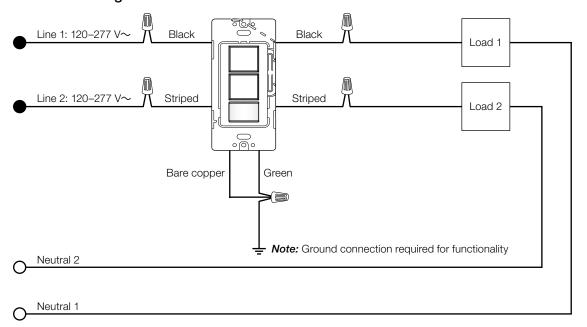
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Wiring

Single-Line Wiring



Two-Line Wiring*



* Wiring must comply with 2011 NEC code 210.7 for wiring Multiple Branch Circuits: Where two or more branch circuits supply devices or equipment on the same yoke, a means to simultaneously disconnect the ungrounded conductors supplying those devices shall be provided at the point at which the branch circuits originate.

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Sensor

Colors and Finishes

Ivory

Light Almond

IV

LA

Brown

BR

Gloss Finishes



White WH



Almond ΑL



Gray GR



Black BL

Satin Finishes



Hot HT





Merlot MR



Plum PL



Turquoise TQ



Taupe TP



Eggshell ES



Biscuit BI



Snow SW



Palladium PD



Midnight MN



Sienna SI



Terracotta TC



Greenbriar GB



Bluestone BG



Mocha Stone MS



Goldstone GS



Desert Stone DS



Stone ST



Limestone LS



Sea Glass SG

- Due to printing limitations, colors and finishes shown cannot be guaranteed to match actual product colors perfectly.
- Color chip keychains are available for more precise color matching:

Gloss Finishes: DG-CK-1 Satin Finishes: SC-CK-1

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