3 A - Fan

3 A - Fan

450 W - MLV

360 W - CFL, LED

5 A - Fluorescent Ballasts

600 W - Incandescent, Halogen, ELV

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Maestro® Sensor switch

Maestro® Sensor switch

Lutron® Maestro® sensor switches with occupancy and vacancy sensors are lighting controls with passive infrared sensors that automatically control the lights in an area. These sensors detect the heat from occupants moving within an area to determine when the space is occupied.

The sensor switch combines a Maestro® switch with an occupancy or vacancy sensor.

Family Features

- Passive infrared motion detection with exclusive Lutron® XCT™ Technology for fine motion detection
- 180° sensor field-of-view
- 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
- Occupancy version can be set to auto-on/auto-off or manual-on/auto-off
- Vacancy version available to meet CA title 24 requirements

Sensor switch:

Model Number*	Description	Sensor Operation	Maximum Capacity
MS-OPS2-XX	Occupancy/vacancy single-pole 120 V~	Auto-on/auto-off or manual-on/ auto-off	250 W - Incandescent, Halogen, ELV 200 W - MLV 150 W - CFL, LED 2 A - Fluorescent Ballasts
MS-VPS2-XX	Vacancy single-pole 120 V∼	Manual-on/ auto-off	250 W - Incandescent, Halogen, ELV 200 W - MLV 150 W - CFL, LED 2 A - Fluorescent Ballasts
MS-OPS5M-XX	Occupancy/vacancy single-pole/multi-location 120 V~	Auto-on/auto-off or manual-on/ auto-off	600 W - Incandescent, Halogen, ELV 450 W - MLV 360 W - CFL, LED 5 A - Fluorescent Ballasts

Manual-on/

auto-off

- Adjustable timeout 1, 5, 15, or 30 minutes
- High-low sensitivity adjustment

MS-VPS5M-XX

- Sensor switch lighting loads: incandescent, halogen, MLV, ELV, CFL, LED, magnetic fluorescent, and electronic fluorescent
- Works with up to 9 companion switches (MA-AS-XX*, or MSC-AS-XX*)

Vacancy single-

120 V~

pole/multi-location

* XX in model number represents color/finish code

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Job Name:	Model Numbers:
Job Number:	

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Colors and Finishes

Ivory

Light Almond

Brown

BR

LA

Gloss Finishes



WH



Almond AL



Gray GR



BL

Satin Finishes (Coming Soon)



Hot



HT



Merlot MR



Plum PL



Turquoise TQ



Taupe TP



Eggshell ES



Biscuit



Snow SW







Midnight MN



Sienna



Terracotta TC



Black



Palladium

PD

Greenbriar GB



Bluestone ВG



Mocha Stone MS



Goldstone GS



Desert Stone



Stone ST



Limestone LS



Sea Glass SG

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

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Job Name:	Model Numbers:
Job Number:	

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Load Type and Capacity

Control	Voltage	Load Type Minimum		Maximum Load			Neutral
			Load	Not Ganged	End of Gang	Middle of Gang	Connection Required
MS-OPS2 MS-VPS2	120 V∼	Lighting ^{1, 2}	0 A	2 A	2 A	2 A	NO
MS-OPS5M		Lighting ^{1, 2, 3}	0 A	5 A	5 A	5 A	NO
MS-VPS5M	120 V∼	Fan ³	0 A (0 HP)	3 A (1/10 HP)	3 A (1/10 HP)	3 A (1/10 HP)	NO

¹ Sensor 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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Page Job Name: Model Numbers: Job Number:

² See page 1 for load rating in W.

³ When controlling light and fan loads simultaneously, maximum load capacity is 3 A.

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Specifications

Regulatory Approvals

• UL Listed to U.S.A. and Canadian Safety standards.

Power

Operating voltage: 120 V~ 50/60 Hz

Key Design Features

Sensor switch

- On a single-tap, lights turn ON or OFF.
- Two-wire sensor switches available.

Environment

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

Warranty

 1 Year Limited Warranty.
 For additional Warranty information, please visit http://www.lutron.com/TechnicalDocumentLibrary/369-119 Wallbox Warranty.pdf

Timeout Options

- 1 Minute
- 5 Minutes
- 15 Minutes
- 30 Minutes

Sensitivity Options

- High sensitivity
- Low sensitivity

Auto-On Options (occupancy/vacancy version)

- "Enabled" Auto-On/Auto-Off
- "Disabled" Manual-On/Auto-Off
- "Low Light" Lights turn on only if needed (if ambient light is below threshold)

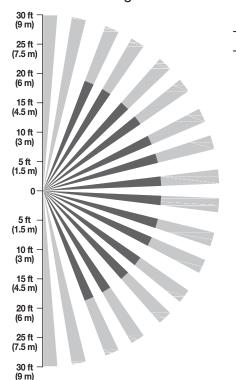
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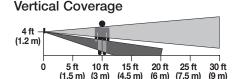
Job Name:	Model Numbers:	
Job Number:		

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Range Diagrams

Horizontal Coverage





Sensor switch Placement and Operation

• The ability of the sensor switch to detect motion requires line-of-sight of room occupants. The sensor switch must have an unobstructed view of the room.

Major Motion: 900 ft² (81 m²) coverage

■ Minor Motion: 400 ft² (36 m²) coverage

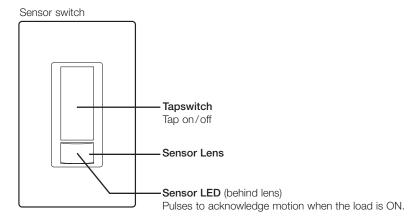
- Hot objects and moving air currents can affect the performance of the sensor switch.
- The performance of the sensor switch depends on a temperature differential between the ambient room temperature and that of room occupants. Warmer rooms may reduce the ability of the sensor switch to detect occupants.

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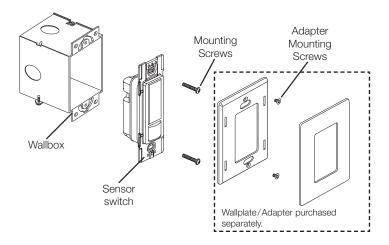
Job Name:	Model Numbers:
Job Number:	

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Operation



Mounting



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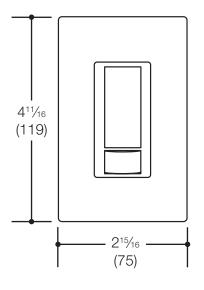
Job Name:	Model Numbers:
Job Number:	

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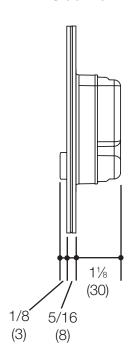
Dimensions

Measurements shown as: in (mm)

Front View



Side View



Ganging and Derating

Sensor switches can be ganged without derating.

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Job Name: Model Numbers:

Job Number:

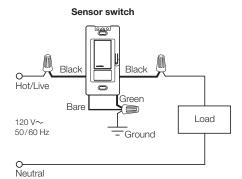
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Wiring Diagrams:

Wiring Diagram 1

Single Location Installation (120 V∼)

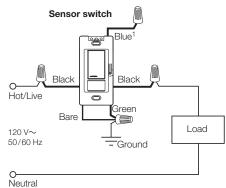
-OPS2 and -VPS2



Wiring Diagram 2

Single Location Installation (120 V∼)¹

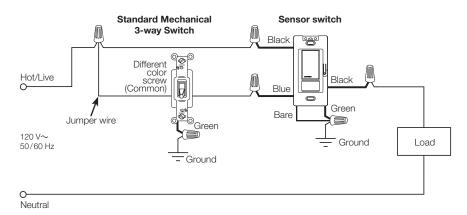
-OPS5M and -VPS5M



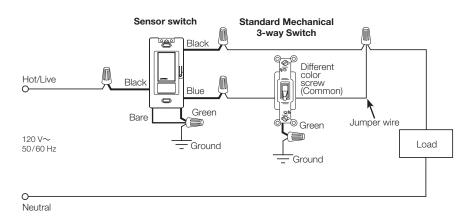
Wiring Diagram 3

3-way Installation with Standard Mechanical 3-way Switch (120 V~)3

-OPS5M and -VPS5M



OR



Continued on next page...

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Job Name:	Model Numbers:
Job Number:	

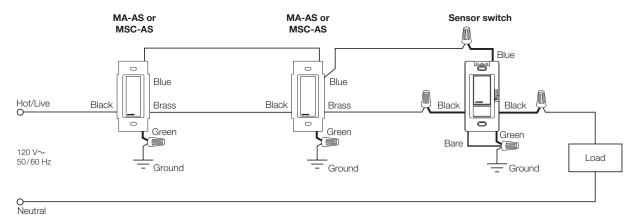
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Wiring Diagrams: (continued)

Wiring Diagram 4

Multi-Location Installation (120 V∼)^{2,3}

-OPS5M and -VPS5M with MA-AS or MSC-AS



¹ When using controls in single location installations, tighten the blue terminal or cap blue wire. Do not connect the blue terminal/wire to any other wire

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Job Name:	Model Numbers:
Job Number:	

² Up to 9 companion switches may be connected to a sensor switch. Total blue terminal wire length may be up to 250 ft (76 m).

 $[{]f 3}$ Only one sensor switch can be used per multi-location circuit.