## Maestro Sensors

Lutron's Maestro Dimmer and Switch 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 Dimmer with Sensor combines a Maestro 600 W incandescent/halogen dimmer with an occupancy or vacancy sensor.
The Switch with Sensor combines a Maestro switch with an occupancy or vacancy sensor.

## Family Features

- Passive infrared motion detection with exclusive Lutron® XCTтм Technology for fine motion detection
- $180^{\circ}$ sensor field-of-view
- Up to $30 \mathrm{ft} \times 30 \mathrm{ft}(9.14 \mathrm{~m} \times 9.14 \mathrm{~m})$ [ $\left.900 \mathrm{ft}^{2}\left(274.32 \mathrm{~m}^{2}\right)\right]$ major motion coverage and $20 \mathrm{ft} \times 20 \mathrm{ft}(6.1 \mathrm{~m} \times 6.1 \mathrm{~m})$ [400 ft² ( $\left.\left.121.92 \mathrm{~m}^{2}\right)\right]$ minor motion coverage
- Occupancy/vacancy version can be set to auto-on/auto-off or manual-on/auto-off
- Vacancy version available to meet CA title 24 requirements

Dimmer with sensor:

| $\square$ | Model Number * Description Sensor Operation Maximum Capacity |  |  |
| :--- | :--- | :--- | :--- | :--- |
| MS-OP600M-XX | Occupancy/vacancy <br> single-pole/multi-location | Auto-on/auto-off or <br> manual-on/auto-off | 600 W incandescent/ <br> halogen |
| MS-VP600M-XX | Vacancy single-pole/ <br> multi-location | Manual-on/auto-off | 600 W incandescent/ <br> halogen |

- Adjustable timeout - 1, 3, 5, 15, or 30 minutes
- Optional off warning dims the lights by $50 \%, 30$ seconds before the light turns off
- High-low sensitivity adjustment
- Standard Maestro dimmer features: locked preset, fade-to-on, and fade-to-off
- Works with up to 9 companion dimmers (MA-R-XX) *


## Switch with sensor:

|  | Model Number* | Description | Sensor Operation | Maximum Capacity |
| :---: | :---: | :---: | :---: | :---: |
|  | MS-OPS5AM-XX | Occupancy/vacancy single-pole/multi-location $120 \mathrm{~V} \sim$; neutral wire required | Auto-on/auto-off or manual-on/ auto-off | 5 A lighting |
|  | MS-VPS5AM-XX | Vacancy single-pole/multilocation 120 V ~; neutral wire required | Manual-on/autooff | 5 A lighting |
|  | MS-OPS6M-DV-XX | Occupancy/vacancy single-pole/multi-location 120-277 V~ spec grade electronic switch; no neutral wire required | Auto-on/auto-off or manual-on/ auto-off | 6 A lighting <br> 3 A $1 / 10$ HP Fan (Fan 120 V~ only) |
|  | MS-VPS6M-DV-XX | Vacancy single-pole/multilocation 120-277 V~ spec grade electronic switch; no neutral wire required | Manual-on/autooff | 6 A lighting 3 A 1/10 HP Fan (Fan 120 V~ only) |

- Adjustable timeout - 1, 5, 15, or 30 minutes
- High-low sensitivity adjustment
- Switch lighting loads: incandescent, halogen, MLV, ELV, and non-dim fluorescent
- Works with up to 9 companion switches (MA-AS-XX* or MA-AS-277-XX*)
* XX in model number represents color/finish code

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Job Name:
Job Number: $\square$

Model Numbers:

## Colors and Finishes

## Gloss Finishes



White
WH

Almond
AL

Black
BL




正


Satin Finishes


Greenbriar
GB


Desert Stone
DS


Plum
PL


Eggshell
ES
Biscuit
Bl


Midnight
MN


Bluestone
BG


L


Sienna SI


Mocha
Stone
MS



Limestone
LS


Turquoise TQ


Snow SW


Terracotta TC


Goldstone GS


Sea Glass
SG

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

| Control | Voltage | Load <br> Type | Minimum <br> Load | Maximum Load |  |  | Neutral <br> Cot <br> Ganged |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  | End of <br> Gang | Middle of <br> Gang | Required |  |  |
| MS-OP600M <br> MS-VP600M | $120 \mathrm{~V} \sim$ | Incand. $^{1}$ | 40 W | 600 W | 500 W | 400 W | NO |
| MS-OPS5AM <br> MS-VPS5AM | $120 \mathrm{~V} \sim$ | Lighting $^{2}$ | 5 W | 5 A | 4 A | 3.2 A | YES |
| MS-OPS6M-DV <br> MS-VPS6M-DV | $120-$ <br> $277 \mathrm{~V} \sim$ | Lighting $^{2}$ | 25 W | 6 A | 6 A | 6 A | NO |
|  | $120 \mathrm{~V} \sim$ | Fan | 0.4 A | $3 \mathrm{~A} \mathrm{(1/10HP)}$ | $3 \mathrm{~A}(1 / 10 \mathrm{HP})$ | $3 \mathrm{~A}(1 / 10 \mathrm{HP})$ | NO |

1 Dimmer Load Type: designed for use with permanently installed incandescent or tungsten halogen only. Do not install dimmers to control receptacles or motor-operated appliances.
2 Switch Load Type: designed for use with permanently installed lighting loads.

## Specifications

## Regulatory Approvals

- UL Listed and cUL Listed.


## Power

Operating voltage:
$120 \mathrm{~V} \sim 60 \mathrm{~Hz}$
120-277 V~ 50/60 Hz (-OPS6M-DV and -VPS6M-DV)

## Key Design Features

## Dimmer

- On a single-tap, lights fade ON or OFF.
- On a double-tap, lights go to full ON.
- When ON, press and hold to engage up to 60 -second fade to OFF.
- Light levels can be fine-tuned by pressing and holding the dimming rocker until the desired light level is reached.
Switch
- On a single-tap, lights turn ON or OFF.
- Two-wire switches available.


## Environment

- Ambient operating temperature: $32{ }^{\circ} \mathrm{F}$ to $104^{\circ} \mathrm{F}$ $\left(0^{\circ} \mathrm{C}\right.$ to $40^{\circ} \mathrm{C}$ ), $0 \%-90 \%$ 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
- 3 Minutes*
- 5 Minutes
- 15 Minutes
- 30 Minutes
* dimmer only


## Sensitivity Options

- High sensitivity
- Low sensitivity


## Auto-On Options (occupancy/vacancy version)

- "Enabled" - Auto-On
- "Disabled" - Manual-On


## Ambient Light Detection Options (-OPS6M-DV):

- Disabled: Lights turn on regardless of light level in the room.
- Enabled with High Light Level: Prevents lights from turning on automatically when there is a high amount of ambient light.
- Enabled with Medium Light Level: Prevents lights from turning on automatically when there is a medium amount of ambient light.
- Enabled with Low Light Level: Prevents lights from turning on automatically when there is a low amount of ambient light.


## Off While Occupied (-OPS6M-DV only)

- When Switch 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 Auto-on feature returns to normal operation after the timeout duration has expired.
- When this feature is disabled, after being manually turned off, the Auto-on feature will return to normal operation after 25 seconds.
Job Name:
Job Number: $\square$

Model Numbers:

## Range Diagrams



## Sensor Placement and Operation

- The Sensor's ability to detect motion requires line-of-sight of room occupants. The Sensor must have an unobstructed view of the room.
- Hot objects and moving air currents can affect the Sensor's performance.
- 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.
$\square$

Model Numbers:
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## Operation



## Mounting




## Model Numbers:

## Dimensions

Front View


Side View


Note: MS-OPS6M-DV and MS-VPS6M-DV have leaded wire terminations. MS-OP600M, MS-VP600M, MS-OPS5AM, and MS-VPS5AM have screw terminals.

## Ganging and Derating

When ganging with other controls in the same walllbox, derating is required. See Load Type and Capacity chart.

Job Number: $\square$

## Wiring Diagrams:

## Wiring Diagram 1

Single Location ${ }^{1}$ Dimmer Installation without Neutral
-OP600M and -VP600M


## Wiring Diagram 3

Single Location ${ }^{1}$ Switch (2-wire) Installation without Neutral
-OPS6M-DV, and -VPS6M-DV


## Wiring Diagram 2

Single Location ${ }^{1}$ Switch Installation with Neutral -OPS5AM and -VPS5AM


## Wiring Diagram 4

Single Location ${ }^{1}$ Switch (2-wire) Installation without Neutral and with Shunt Capacitor ${ }^{2}$
-OPS6M-DV, and -VPS6M-DV


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Job Name:
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Model Numbers:

|  | $\square$ |
| :--- | :--- |
|  | $\square$ |

## Wiring Diagrams: (continued)

## Wiring Diagram 5

Multi-Location ${ }^{3}$ Dimmer Installation without Neutral ${ }^{5}$
-OP600M and -VP600M with MA-R


## Wiring Diagram 6

Multi-Location ${ }^{3}$ Switch Installation with Neutral ${ }^{5}$
-OPS5AM and -VPS5AM with MA-AS


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Job Name:
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## Wiring Diagrams: (continued)

## Wiring Diagram 7

Multi-Location ${ }^{3}$ Switch (2-wire) Installation without Neutral ${ }^{5}$ (120 V~)


Neutral

## Wiring Diagram 8

Multi-Location ${ }^{3}$ Switch (2-wire) Installation without Neutral ${ }^{5}$ (277 V~)
-OPS6M-DV and -VPS6M-DV with MA-AS-277


Neutral

## Wiring Diagram 9

Multi-Location ${ }^{3}$ Switch (2-wire) Installation without Neutral and with Shunt Capacitor ${ }^{2,5}$ ( $120 \mathrm{~V} \sim$ )
-OPS6M-DV and -VPS6M-DV with MA-AS


Neutral
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Model Numbers:
$\square$

## Wiring Diagrams: (continued)

## Wiring Diagram 10

Multi-Location ${ }^{3}$ Switch (2-wire) Installation without Neutral and with Shunt Capacitor ${ }^{2,5}$ ( 277 V~)
-OPS6M-DV and -VPS6M-DV with MA-AS-277


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 wiring or to ground.
2 Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
3 Up to 9 Companion Dimmers/Switches may be connected to a Dimmer/Switch. Total blue terminal wire length may be up to $250 \mathrm{ft}(76 \mathrm{~m})$.
4 Neutral wire Switches must be connected on the Load side of a multi-location installation.
5 Only one sensor unit can be used per multi-location circuit.

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Job Name:
\square
Job Number:```

