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Maestro Occupancy Sensing Switch

The Lutron Maestro Occupancy sensing switch combines a Maestro switch with a passive infrared occupancy or vacancy sensor. The sensor detects the heat from occupants moving within an area to determine whether the space is occupied. Based on the feedback from the sensor, the occupancy sensing switch will adjust the load accordingly.

Features

- Passive infrared sensors 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
- Adjustable timeout (1, 5, 15, or 30 minutes) and high/low sensitivity adjustment
- Occupancy sensing switch loads: incandescent, halogen, ELV, MLV, CFL, LED, magnetic fluorescent, electronic fluorescent, and fan.

Note: "XX" in model number represents color/finish code.

Models available

MS-OPS2-XX1

MS-OPS2H-XX-C2

MS-OPS5M-XX3

MS-OPS5MH-XX-C²

MS-OPS6M2-DV-XX

MS-OPS6M2N-DV-XX

UMS-OPS6M-DV-XX

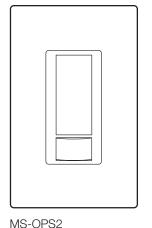
MS-VPS2-XX1

MS-VPS5M-XX3

MS-VPS6M2-DV-XX

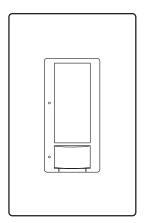
MS-VPS6M2N-DV-XX

UMS-VPS6M-DV-XX





MS-VPS6M2N-DV



UMS-OPS6M-DV UMS-VPS6M-DV

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Page Job Name: Model Numbers: Job Number:

¹ For clamshell packaging, add an "H" after the "2". Available in AL, IV, LA, and WH.

² Clamshell packaged product for Canada. Available in AL, IV, LA, and WH.

³ For clamshell packaging, add an "H" after the "M". Available in AL, IV, LA, and WH.

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Specifications

Regulatory Approvals

- UL_® Listed to U.S. and Canadian safety requirements.
- NOM Certification (MS- models only).

Power

- 120 V ~ 50/60 Hz¹
- 120−277 V~ 50/60 Hz¹

Key Design Features

- All lighting loads
- Crush/tamper resistant lens
- Smart ambient light detection
- Adaptive switching algorithm for extended relay life
- XCT Technology for fine motion detection
- Lutron patented Softswitch

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

- When using MS-OPS2, MS-OPS5M, MS-OPS6M2-DV, MS-VPS2, MS-VPS5M, or MS-VPS6M2-DV on GFI-controlled circuits, please see Lutron P/N 048440 on www.lutron.com
- For Maestro Occupancy sensing dimmer models, please see Lutron P/N 369270 on www.lutron.com
- For use with MA-AS, MSC-AS, MA-AS-277, or MSC-AS-277 to control the load from more than two locations, please see Lutron P/N 048435 on www.lutron.com

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- For more information, please see www.lutron.com/occvacsensors
- Lutron Customer Assistance: 1.844.LUTRON1

Advanced Features

Switching

- Standard zero cross—maximizes relay life by switching at the point of minimum energy on the AC power curve
- Adaptive zero cross—maximizes relay life by switching at the point of minimum energy on the AC power curve. Actively adapts to variations in relay timing
- Lutron Patented Softswitch circuit—eliminates arcing at mechanical contacts when loads are switched.
 Extends relay life to an average of 1,000,000 cycles (on/off) for resistive, capacitive, or inductive sources

XCT Technology

Advanced sensing technology for fine 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/TechnicalDocumentLibrary/white%20paper%20 XCT%204-23-09%20B.pdf

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	Job Name:		Model Numbers:	
	Job Number:			

¹ Maximum current ratings for individual models are provided in the **Selection Matrix** on page 4.

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Custom Settings

Ambient Light Detection

Lights turn on only if natural light in room is low.

 Smart—Ambient light threshold adjusts precisely to the user's preference.

Instructions: If switch turns on when there is enough natural light, or if switch does not turn on when there is not enough natural light, press the large button within 5 seconds of entering the room. Over time, this interaction will "teach" the switch your preferred setting.

Presets—high, medium, low, and disabled.

Sensor Operation

- Occupancy/Vacancy: Auto-ON / Auto-OFF or Manual-ON / Auto-OFF
- Vacancy only: Manual-ON / Auto-OFF only

Timeout Options

(See Additional Features on page 5 for default settings)

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

Sensitivity Options

- High sensitivity (default)
- Low sensitivity

Auto-ON Options

Job Number:

(MS-OPS and UMS-OPS only)

- Occupancy (default): Auto-ON / Auto-OFF
- Vacancy*: Manual-ON / Auto-OFF
- Low Light: Lights turn on only if needed (if ambient light is below threshold)
 - * 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 that 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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Manual Off-While-Occupied Options

(MS-OPS and UMS-OPS only — see **Additional Features** on page 5 for default setting)

Enabled

- 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. This feature requires motion to keep the lights off.

Disabled

- When the Occupancy sensing switch is manually turned off, the Auto-ON feature will return to normal operation after 25 seconds.
- This may be the preference if the user always wants the lights to turn on upon entering and the lights to turn off when the room is vacant.

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	Job Name:		Model Numbers:	

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Selection Matrix

	Vaca	Vacancy only ² (Title 24 compliant)											
		Single-pole only											
			Works with standard mechanical 3-way switch ³										Single-pole / 3-way capability
				Wor	ks wi	th co	mpar	nion s	witch	1 ^{3, 4}			, , , , , , , , , , , , , , , , , , , ,
					All li	ghtin	g loa	ds (12	20 V^	~ only	/)		
						All li	ghtin	g loa	ds (12	20-2	77 V∼	only)	Max current rating
							Fan	(120	V~)				wax current rating
								Ligh	t + Fa	an (12	20 V~)		
									Neu	tral w	ire requ	uired	
										Gro	und wir	e required for functionality	Off-state power
											Minim	um load required	
												Relevant wiring diagram	
Model Number ¹													1
MS-OPS2-XX		✓			2 A					✓		1	
MS-OPS2H-XX-C		✓			2 A					✓		1	
MS-OPS5M-XX			✓	✓	5 A		3 A	3 A		✓		2, 3, 5	
MS-OPS5MH-XX-C			✓	✓	5 A		3 A	3 A		✓		2, 3, 5	
MS-OPS6M2-DV-XX			√	✓		6 A	3 A	3 A		✓		2–6	
MS-OPS6M2N-DV-XX			✓	✓		6 A	3 A	3 A	✓			7–11	
UMS-OPS6M-DV-XX ⁵				✓		6 A	3 A	3 A			25 W	12-17	
MS-VPS2-XX	✓	✓			2 A					√		1	
MS-VPS5M-XX	√		✓	✓	5 A		3 A	3 A		✓		2, 3, 5	
MS-VPS6M2-DV-XX	√		√	√		6 A	3 A	3 A		√		2–6	
MS-VPS6M2N-DV-XX	√		✓	√		6 A	3 A	3 A	✓			7–11	
UMS-VPS6M-DV-XX ⁵	✓			√		6 A	3 A	3 A			25 W	12–17	

 $^{^{\}mbox{\scriptsize 1}}$ XX in model number represents color/finish code.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

Occupancy sensors can be configured as Auto-ON / Auto-OFF or Manual-ON / Auto-OFF. Vacancy sensors are configured as Manual-ON / Auto-OFF only.

 $^{^{\}mathbf{3}}$ Standard mechanical 3-way switch cannot be combined with companion switch.

⁴ Companion switch MA-AS, MSC-AS, MA-AS-277, or MSC-AS-277 is required for multi-location installations (more than two locations controlling the same lighting circuit). Up to nine companion switches may be connected.

⁵ BAA-compliant models.

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Additional Features

	Crush/tamper-resistant lens									
		Ambient light detection								
			Switching							
				XC.	Γ technology					
					Manual off-while	e-occupied default setting				
						Default timeout (minutes)				
Model Number ¹										
MS-OPS2-XX		Smart	Standard	✓	Disabled	5				
MS-OPS2H-XX-C		Smart	Standard	✓	Disabled	5				
MS-OPS5M-XX		Smart	Standard	✓	Disabled	5				
MS-OPS5MH-XX-C		Smart	Standard	✓	Disabled	5				
MS-OPS6M2-DV-XX	✓	Smart	Adaptive	✓	Enabled	15				
MS-OPS6M2N-DV-XX	✓	Smart	Adaptive	✓	Enabled	15				
UMS-OPS6M-DV-XX		Presets	Softswitch	✓	Enabled	5				
MS-VPS2-XX		Smart	Standard	✓		5				
MS-VPS5M-XX		Smart	Standard	✓		5				
MS-VPS6M2-DV-XX	✓	Smart	Adaptive	✓		15				
MS-VPS6M2N-DV-XX	✓	Smart	Adaptive	✓		15				
UMS-VPS6M-DV-XX		Presets	Softswitch	✓		5				

 $^{^{\}mbox{\scriptsize 1}}$ XX in model number represents color/finish code.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

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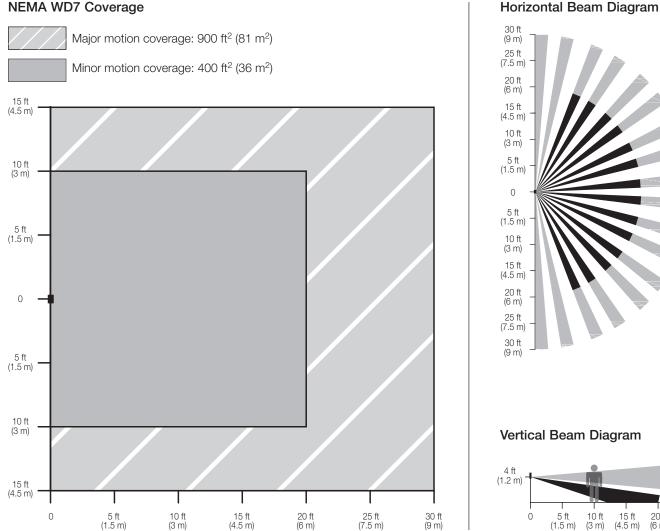
Occupancy Sensing Switch Placement and Operation

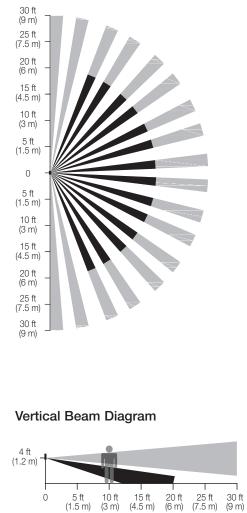
- The ability of the Occupancy sensing switch to detect motion requires line-of-sight of room occupants. The Occupancy sensing switch must have an unobstructed view of the room.
- Hot objects and moving air currents can affect the performance of the Occupancy sensing switch.
- The performance of the 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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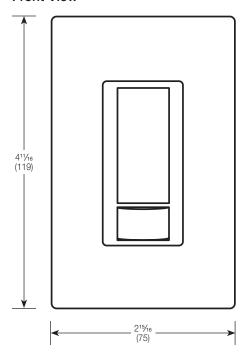
Job Name:	Model Numbers:
Job Number:	

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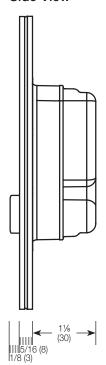
Dimensions

Measurements shown as: in (mm).

Front View

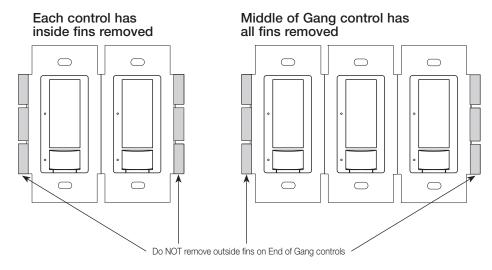






Ganging

When ganging with other controls in the same wallbox, remove inside fins (UMS-OPS6M-DV and UMS-VPS6M-DV only).

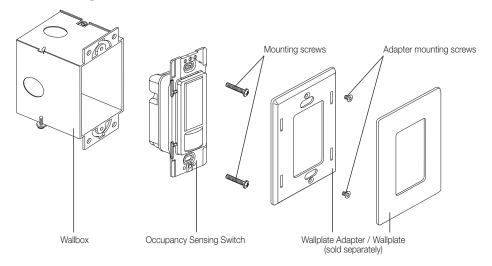


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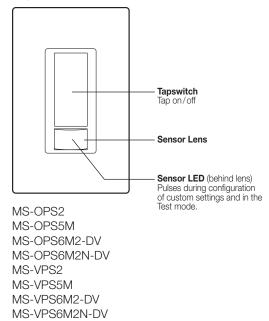
Job Name:	Model Numbers:
Job Number:	

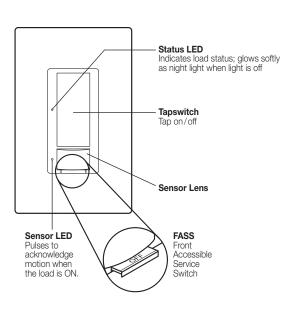
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Mounting



Operation





UMS-OPS6M-DV UMS-VPS6M-DV

IMPORTANT NOTICE

FASS — Front Accessible Service Switch — To service load, remove power by pulling the FASS switch out completely on either the Dimmer or Companion Dimmer. After servicing load, push the FASS switch back in fully to restore power to the control.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

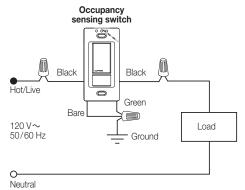
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Wiring Diagrams

Wiring Diagram 1

Single Location Installation (120 V∼)

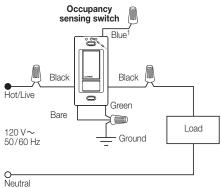
-OPS2 and -VPS2



Wiring Diagram 2

Single Location Installation (120 V∼)¹

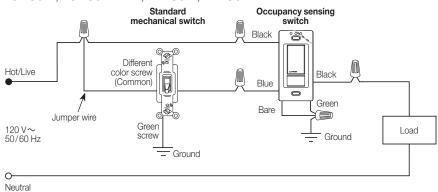
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV

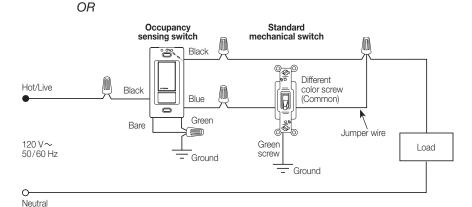


Wiring Diagram 3

3-way Installation with Standard Mechanical Switch (120 V~)2,3

-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV





- 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 or to ground.
- ² Only one Occupancy sensing switch can be used per multi-location circuit.
- A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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LUTRON SPECIFICATION SUBMITTAL

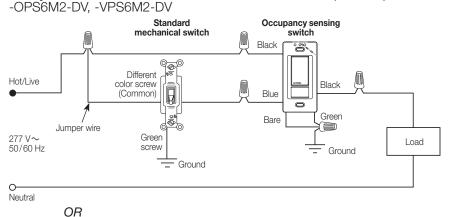
Job Name:	Model Numbers:	
Job Number:		

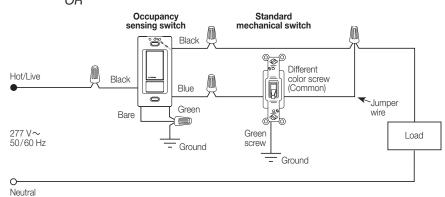
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Wiring Diagrams (continued)

Wiring Diagram 4

3-way Installation with Standard Mechanical Switch (277 V~)^{1, 2, 3}

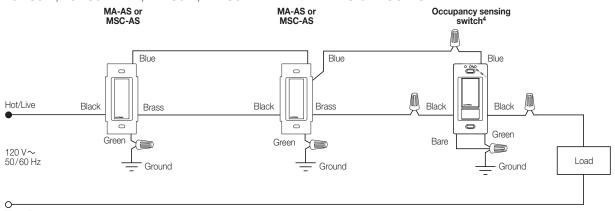




Wiring Diagram 5

Multi-Location Installation (120 V∼)^{1, 2, 4}

-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV with MA-AS or MSC-AS



Neutral

- A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
- Only one Occupancy sensing switch can be used per multi-location circuit.
- Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).
- Occupancy sensing switch can be installed in any location.

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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
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Job Number:	

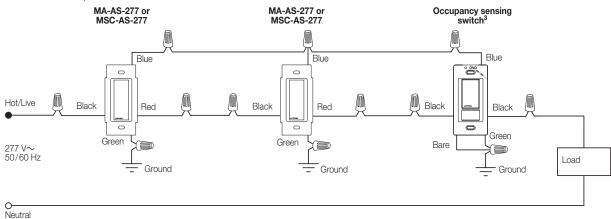
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Wiring Diagrams (continued)

Wiring Diagram 6

Multi-Location Installation (277 V∼)^{1, 2, 3, 4}

-OPS6M2-DV, -VPS6M2-DV with MA-AS-277 or MSC-AS-277



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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number		

A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

Only one Occupancy sensing switch can be used per multi-location circuit.

Occupancy sensing switch can be installed in any location.

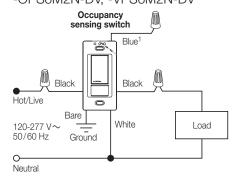
⁴ Fan load applies to 120 V∼ only (not for 277 V∼).

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Wiring Diagrams (continued)

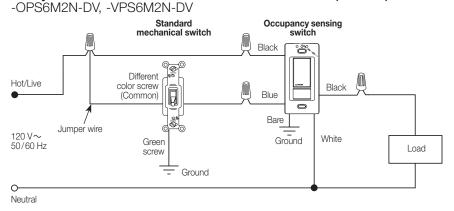
Wiring Diagram 7

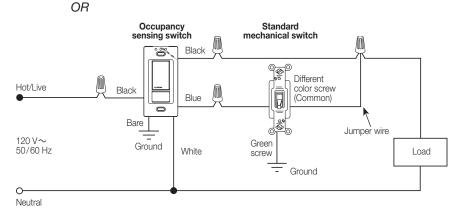
Single Location Installation (120-277 V∼)^{1, 2}
-OPS6M2N-DV, -VPS6M2N-DV



Wiring Diagram 8

3-way Installation with Standard Mechanical Switch (120 V~)^{3, 4}





- 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 or to ground.
- ² Fan load applies to 120 V \sim only (not for 277 V \sim).
- Only one Occupancy sensing switch can be used per multi-location circuit.
- 4 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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LUTRON SPECIFICATION SUBMITTAL

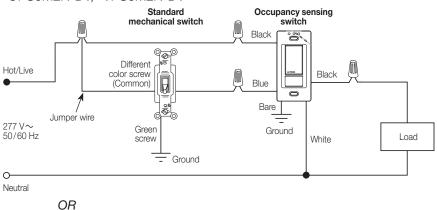
Job Name:	Model Numbers:
Job Number:	

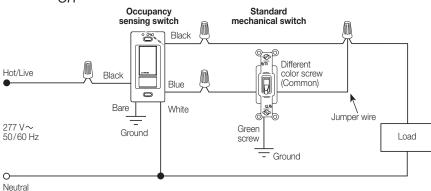
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Wiring Diagrams (continued)

Wiring Diagram 9

3-way Installation with Standard Mechanical Switch (277 V \sim)^{1, 2, 3} -OPS6M2N-DV, -VPS6M2N-DV





Continued on next page...

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

Only one Occupancy sensing switch can be used per multi-location circuit.

A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).

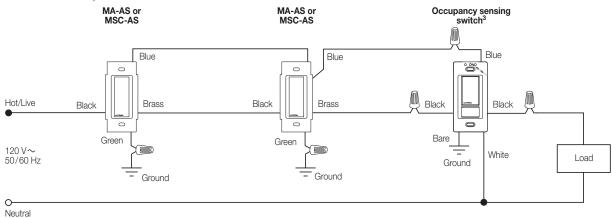
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Wiring Diagrams (continued)

Wiring Diagram 10

Multi-Location Installation (120 V∼)^{1, 2, 3}

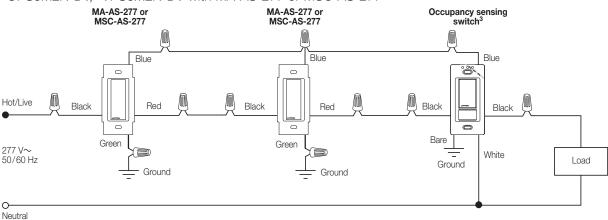
-OPS6M2N-DV, -VPS6M2N-DV with MA-AS or MSC-AS



Wiring Diagram 11

Multi-Location Installation (277 V∼)1, 2, 3, 4

-OPS6M2N-DV, -VPS6M2N-DV with MA-AS-277 or MSC-AS-277



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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

² Only one Occupancy sensing switch can be used per multi-location circuit.

Occupancy sensing switch can be installed in any location.

⁴ Fan load applies to 120 V∼ only (not for 277 V∼).

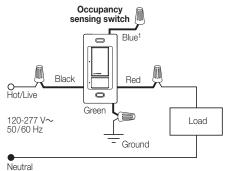
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Wiring Diagrams (continued)

Wiring Diagram 12

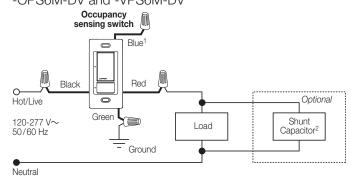
Single Location Installation^{1, 2}

-OPS6M-DV and -VPS6M-DV



Wiring Diagram 13

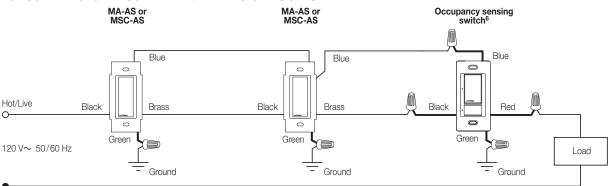
Single Location Installation with Shunt Capacitor^{1, 2, 3} -OPS6M-DV and -VPS6M-DV



Wiring Diagram 14

Multi-Location Installation (120 V∼)1, 4, 5, 6

-OPS6M-DV and -VPS6M-DV with MA-AS or MSC-AS

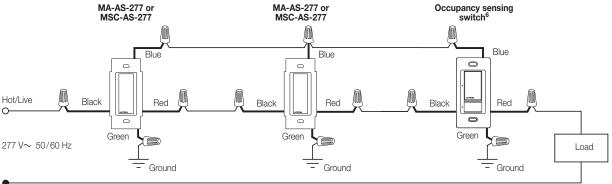


Neutral

Wiring Diagram 15

Multi-Location Installation (277 V∼)^{1, 2, 3, 4, 5, 6}

-OPS6M-DV and -VPS6M-DV with MA-AS-277 or MSC-AS-277



Neutral

- 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 or to ground.
- Fan load applies to 120 V~ only (not for 277 V~).
- Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
- Up to 9 companion switches may be connected to an Occupancy sensing switch. Total blue terminal wire length may be up to 250 ft (76 m).
- Only one Occupancy sensing switch can be used per multi-location circuit.
- Occupancy sensing switch can be installed in any location.

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Job Name:	Model Numbers:	
Job Number:		

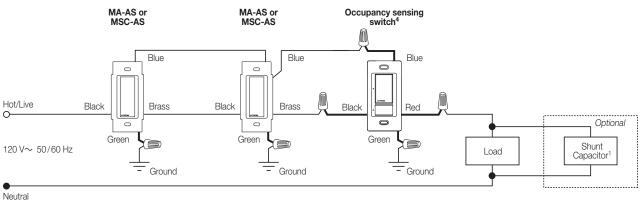
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Wiring Diagrams (continued)

Wiring Diagram 16

Multi-Location Installation with Shunt Capacitor (120 V∼)^{1, 2, 3, 4}

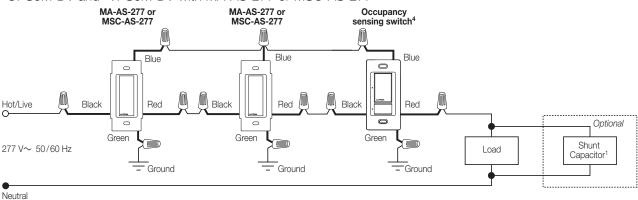
-OPS6M-DV and -VPS6M-DV with MA-AS or MSC-AS



Wiring Diagram 17

Multi-Location Installation with Shunt Capacitor (277 V~)1, 2, 3, 4, 5

-OPS6M-DV and -VPS6M-DV with MA-AS-277 or MSC-AS-277



- Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
- ² Up to 9 companion switches may be connected to an Occupancy sensing switch. Total blue terminal wire length may be up to 250 ft (76 m)
- Only one Occupancy sensing switch can be used per multi-location circuit.
- Occupancy sensing switch can be installed in any location.
- ⁵ Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).

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Job Name:	Model Numbers:
Job Number:	

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Colors and Finishes

Gloss Finishes



White WH



Ivory IV



Almond AL



Light Almond



Gray GR



Brown BR



Black BL

Satin Finishes



Hot HT



Merlot MR



Plum PL



Turquoise TQ



Taupe TP



Eggshell ES



Biscuit Bl



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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Maestro Occupancy Sensing Switch

The Lutron Maestro Occupancy sensing switch combines a Maestro switch with a passive infrared occupancy or vacancy sensor. The sensor detects the heat from occupants moving within an area to determine whether the space is occupied. Based on the feedback from the sensor, the occupancy sensing switch will adjust the load accordingly.

Features

- Passive infrared sensors 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
- Adjustable timeout (1, 5, 15, or 30 minutes) and high/low sensitivity adjustment
- Occupancy sensing switch loads: incandescent, halogen, ELV, MLV, CFL, LED, magnetic fluorescent, electronic fluorescent, and fan.

Note: "XX" in model number represents color/finish code.

Models available

MS-OPS2-XX1

MS-OPS2H-XX-C2

MS-OPS5M-XX3

MS-OPS5MH-XX-C²

MS-OPS6M2-DV-XX

MS-OPS6M2N-DV-XX

UMS-OPS6M-DV-XX

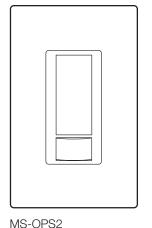
MS-VPS2-XX1

MS-VPS5M-XX3

MS-VPS6M2-DV-XX

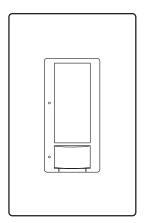
MS-VPS6M2N-DV-XX

UMS-VPS6M-DV-XX





MS-VPS6M2N-DV



UMS-OPS6M-DV UMS-VPS6M-DV

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Page Job Name: Model Numbers: Job Number:

¹ For clamshell packaging, add an "H" after the "2". Available in AL, IV, LA, and WH.

² Clamshell packaged product for Canada. Available in AL, IV, LA, and WH.

³ For clamshell packaging, add an "H" after the "M". Available in AL, IV, LA, and WH.

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Specifications

Regulatory Approvals

- UL_® Listed to U.S. and Canadian safety requirements.
- NOM Certification (MS- models only).

Power

- 120 V ~ 50/60 Hz¹
- 120−277 V~ 50/60 Hz¹

Key Design Features

- All lighting loads
- Crush/tamper resistant lens
- Smart ambient light detection
- Adaptive switching algorithm for extended relay life
- XCT Technology for fine motion detection
- Lutron patented Softswitch

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

- When using MS-OPS2, MS-OPS5M, MS-OPS6M2-DV, MS-VPS2, MS-VPS5M, or MS-VPS6M2-DV on GFI-controlled circuits, please see Lutron P/N 048440 on www.lutron.com
- For Maestro Occupancy sensing dimmer models, please see Lutron P/N 369270 on www.lutron.com
- For use with MA-AS, MSC-AS, MA-AS-277, or MSC-AS-277 to control the load from more than two locations, please see Lutron P/N 048435 on www.lutron.com

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- For more information, please see www.lutron.com/occvacsensors
- Lutron Customer Assistance: 1.844.LUTRON1

Advanced Features

Switching

- Standard zero cross—maximizes relay life by switching at the point of minimum energy on the AC power curve
- Adaptive zero cross—maximizes relay life by switching at the point of minimum energy on the AC power curve. Actively adapts to variations in relay timing
- Lutron Patented Softswitch circuit—eliminates arcing at mechanical contacts when loads are switched.
 Extends relay life to an average of 1,000,000 cycles (on/off) for resistive, capacitive, or inductive sources

XCT Technology

Advanced sensing technology for fine 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/TechnicalDocumentLibrary/white%20paper%20 XCT%204-23-09%20B.pdf

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	Job Name:		Model Numbers:							
	Job Number:									

¹ Maximum current ratings for individual models are provided in the **Selection Matrix** on page 4.

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Custom Settings

Ambient Light Detection

Lights turn on only if natural light in room is low.

 Smart—Ambient light threshold adjusts precisely to the user's preference.

Instructions: If switch turns on when there is enough natural light, or if switch does not turn on when there is not enough natural light, press the large button within 5 seconds of entering the room. Over time, this interaction will "teach" the switch your preferred setting.

Presets—high, medium, low, and disabled.

Sensor Operation

- Occupancy/Vacancy: Auto-ON / Auto-OFF or Manual-ON / Auto-OFF
- Vacancy only: Manual-ON / Auto-OFF only

Timeout Options

(See Additional Features on page 5 for default settings)

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

Sensitivity Options

- High sensitivity (default)
- Low sensitivity

Auto-ON Options

(MS-OPS and UMS-OPS only)

- Occupancy (default): Auto-ON / Auto-OFF
- Vacancy*: Manual-ON / Auto-OFF
- Low Light: Lights turn on only if needed (if ambient light is below threshold)
 - * 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 that 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.

Manual Off-While-Occupied Options

(MS-OPS and UMS-OPS only — see **Additional Features** on page 5 for default setting)

Enabled

- 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. This feature requires motion to keep the lights off.

Disabled

- When the Occupancy sensing switch is manually turned off, the Auto-ON feature will return to normal operation after 25 seconds.
- This may be the preference if the user always wants the lights to turn on upon entering and the lights to turn off when the room is vacant.

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Job Nar	ne:		Model Numbers:

Job Number:

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Selection Matrix

Vacancy only ² (Title 24 compliant)													
	Single-pole only												
			Works with standard mechanical 3-way switch ³										Single-pole / 3-way capability
				Wor	ks wi	, , , , , , , , , , , , , , , , , , , ,							
					All li	ghtin							
					All lighting loads (120-277 V∼ only)								Max current rating
							Fan	(120	V~)				wax current rating
								Ligh	t + Fa	an (12	20 V~)		
									Neu	tral w	ire requ	uired	
										Ground wire required for functionality			Off-state power
											Minim	um load required	
												Relevant wiring diagram	
Model Number ¹													1
MS-OPS2-XX		✓			2 A					✓		1	
MS-OPS2H-XX-C		✓			2 A					✓		1	
MS-OPS5M-XX			✓	✓	5 A		3 A	3 A		✓		2, 3, 5	
MS-OPS5MH-XX-C			✓	✓	5 A		3 A	3 A		✓		2, 3, 5	
MS-OPS6M2-DV-XX			✓	✓		6 A	3 A	3 A		✓		2–6	
MS-OPS6M2N-DV-XX			✓	✓		6 A	3 A	3 A	✓			7–11	
UMS-OPS6M-DV-XX ⁵				✓		6 A	3 A	3 A			25 W	12-17	
MS-VPS2-XX	✓	✓			2 A					√		1	
MS-VPS5M-XX	√		✓	✓	5 A		3 A	3 A		✓		2, 3, 5	
MS-VPS6M2-DV-XX	√		√	√		6 A	3 A	3 A		√		2–6	
MS-VPS6M2N-DV-XX	√		✓	√		6 A	3 A	3 A	✓			7–11	
UMS-VPS6M-DV-XX ⁵	✓			√		6 A	3 A	3 A			25 W	12–17	

 $^{^{\}mbox{\scriptsize 1}}$ XX in model number represents color/finish code.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

Occupancy sensors can be configured as Auto-ON / Auto-OFF or Manual-ON / Auto-OFF. Vacancy sensors are configured as Manual-ON / Auto-OFF only.

 $^{^{\}mathbf{3}}$ Standard mechanical 3-way switch cannot be combined with companion switch.

⁴ Companion switch MA-AS, MSC-AS, MA-AS-277, or MSC-AS-277 is required for multi-location installations (more than two locations controlling the same lighting circuit). Up to nine companion switches may be connected.

⁵ BAA-compliant models.

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Additional Features

	Crush/tamper-resistant lens										
		Ambient	Ambient light detection								
			Switching								
				XCT technology							
					Manual off-while	e-occupied default setting					
						Default timeout (minutes)					
Model Number ¹											
MS-OPS2-XX		Smart	Standard	✓	Disabled	5					
MS-OPS2H-XX-C		Smart	Standard	✓	Disabled	5					
MS-OPS5M-XX		Smart	Standard	✓	Disabled	5					
MS-OPS5MH-XX-C		Smart	Standard	✓	Disabled	5					
MS-OPS6M2-DV-XX	✓	Smart	Adaptive	✓	Enabled	15					
MS-OPS6M2N-DV-XX	✓	Smart	Adaptive	✓	Enabled	15					
UMS-OPS6M-DV-XX		Presets	Softswitch	✓	Enabled	5					
MS-VPS2-XX		Smart	Standard	✓		5					
MS-VPS5M-XX		Smart	Standard	✓		5					
MS-VPS6M2-DV-XX	✓	Smart	Adaptive	✓		15					
MS-VPS6M2N-DV-XX	✓	Smart	Adaptive	✓		15					
UMS-VPS6M-DV-XX		Presets	Softswitch	✓		5					

 $^{^{\}mbox{\scriptsize 1}}$ XX in model number represents color/finish code.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

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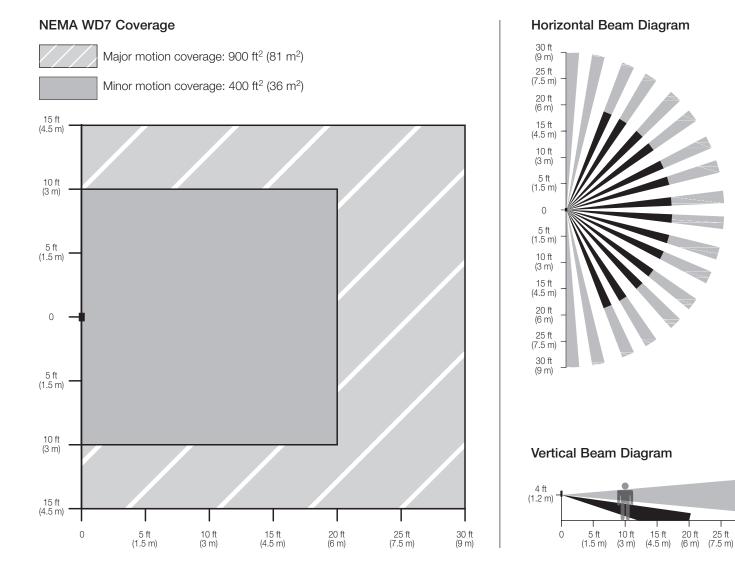
Occupancy Sensing Switch Placement and Operation

- 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.
- 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).



LUTRON SPECIFICATION SUBMITTAL

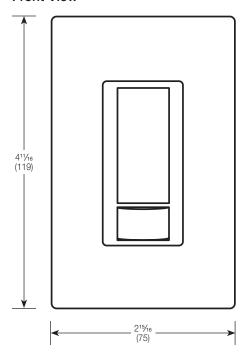
Job Name:	Model Numbers:
Job Number:	

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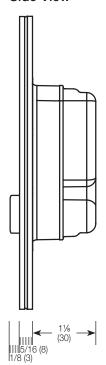
Dimensions

Measurements shown as: in (mm).

Front View

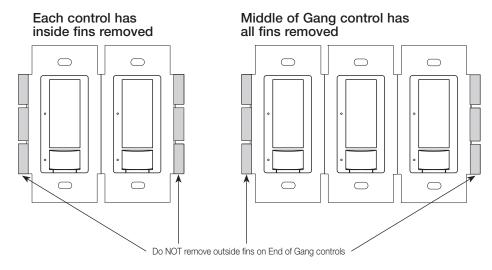






Ganging

When ganging with other controls in the same wallbox, remove inside fins (UMS-OPS6M-DV and UMS-VPS6M-DV only).

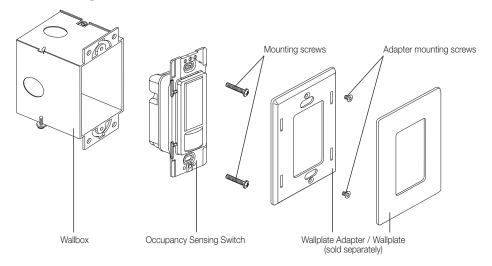


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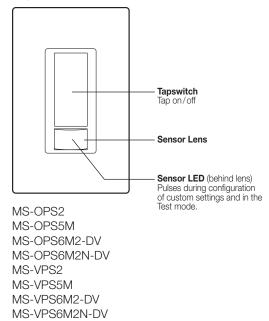
Job Name:	Model Numbers:
Job Number:	

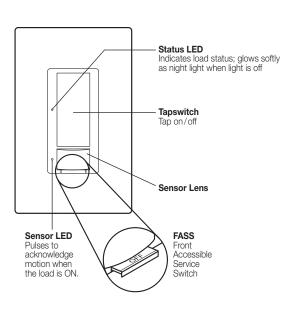
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Mounting



Operation





UMS-OPS6M-DV UMS-VPS6M-DV

IMPORTANT NOTICE

FASS — Front Accessible Service Switch — To service load, remove power by pulling the FASS switch out completely on either the Dimmer or Companion Dimmer. After servicing load, push the FASS switch back in fully to restore power to the control.

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

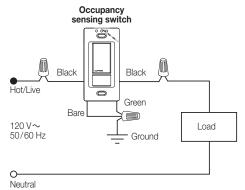
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Wiring Diagrams

Wiring Diagram 1

Single Location Installation (120 V∼)

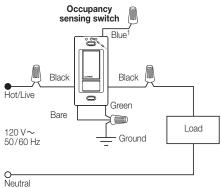
-OPS2 and -VPS2



Wiring Diagram 2

Single Location Installation (120 V∼)¹

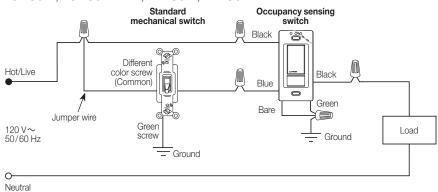
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV

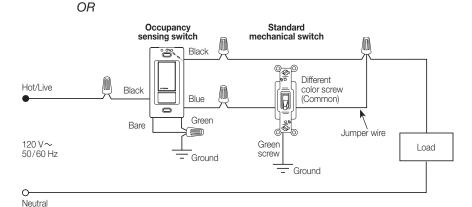


Wiring Diagram 3

3-way Installation with Standard Mechanical Switch (120 V~)2,3

-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV





- 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 or to ground.
- ² Only one Occupancy sensing switch can be used per multi-location circuit.
- A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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LUTRON SPECIFICATION SUBMITTAL

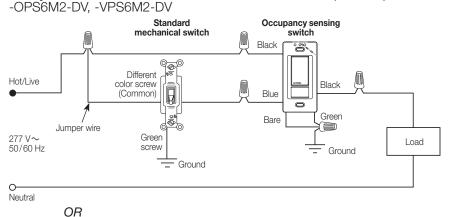
Job Name:	Model Numbers:	
Job Number:		

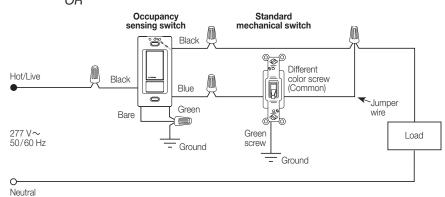
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Wiring Diagrams (continued)

Wiring Diagram 4

3-way Installation with Standard Mechanical Switch (277 V~)^{1, 2, 3}

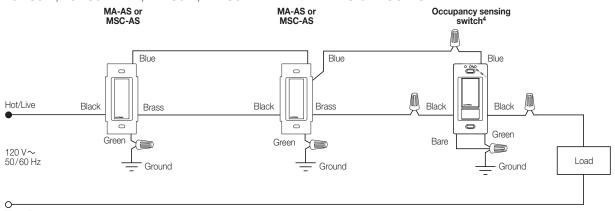




Wiring Diagram 5

Multi-Location Installation (120 V∼)^{1, 2, 4}

-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV with MA-AS or MSC-AS



Neutral

- A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
- Only one Occupancy sensing switch can be used per multi-location circuit.
- Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).
- Occupancy sensing switch can be installed in any location.

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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
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Job Number:	

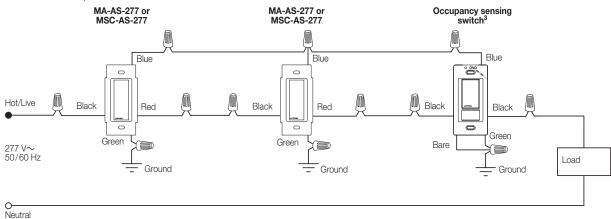
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Wiring Diagrams (continued)

Wiring Diagram 6

Multi-Location Installation (277 V∼)^{1, 2, 3, 4}

-OPS6M2-DV, -VPS6M2-DV with MA-AS-277 or MSC-AS-277



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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number		

A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

Only one Occupancy sensing switch can be used per multi-location circuit.

Occupancy sensing switch can be installed in any location.

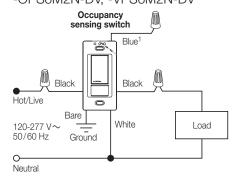
⁴ Fan load applies to 120 V∼ only (not for 277 V∼).

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Wiring Diagrams (continued)

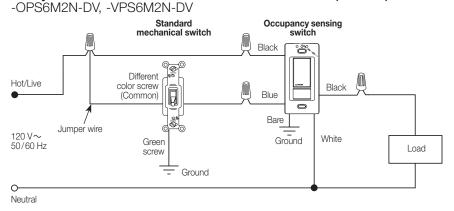
Wiring Diagram 7

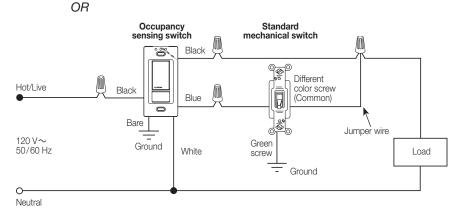
Single Location Installation (120-277 V∼)^{1, 2}
-OPS6M2N-DV, -VPS6M2N-DV



Wiring Diagram 8

3-way Installation with Standard Mechanical Switch (120 V~)^{3, 4}





- 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 or to ground.
- ² Fan load applies to 120 V \sim only (not for 277 V \sim).
- Only one Occupancy sensing switch can be used per multi-location circuit.
- 4 A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

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LUTRON SPECIFICATION SUBMITTAL

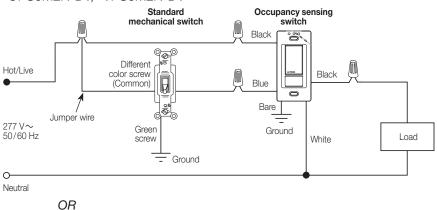
Job Name:	Model Numbers:
Job Number:	

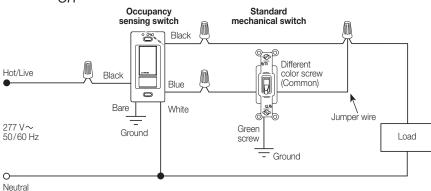
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Wiring Diagrams (continued)

Wiring Diagram 9

3-way Installation with Standard Mechanical Switch (277 V \sim)^{1, 2, 3} -OPS6M2N-DV, -VPS6M2N-DV





Continued on next page...

LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:
Job Number:	

Only one Occupancy sensing switch can be used per multi-location circuit.

A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).

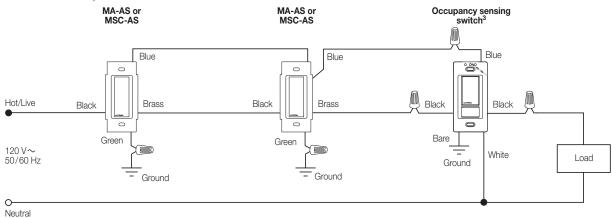
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Wiring Diagrams (continued)

Wiring Diagram 10

Multi-Location Installation (120 V∼)^{1, 2, 3}

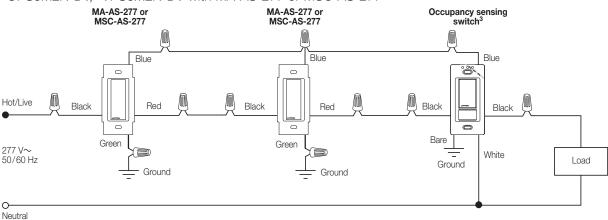
-OPS6M2N-DV, -VPS6M2N-DV with MA-AS or MSC-AS



Wiring Diagram 11

Multi-Location Installation (277 V∼)1, 2, 3, 4

-OPS6M2N-DV, -VPS6M2N-DV with MA-AS-277 or MSC-AS-277



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LUTRON SPECIFICATION SUBMITTAL

Job Name:	Model Numbers:	
Job Number:		

A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).

² Only one Occupancy sensing switch can be used per multi-location circuit.

Occupancy sensing switch can be installed in any location.

⁴ Fan load applies to 120 V∼ only (not for 277 V∼).

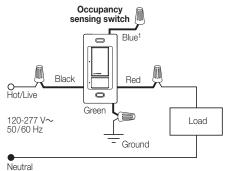
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Wiring Diagrams (continued)

Wiring Diagram 12

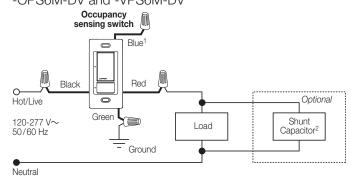
Single Location Installation^{1, 2}

-OPS6M-DV and -VPS6M-DV



Wiring Diagram 13

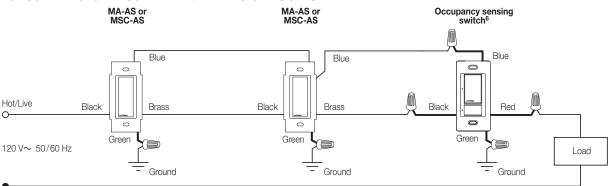
Single Location Installation with Shunt Capacitor^{1, 2, 3} -OPS6M-DV and -VPS6M-DV



Wiring Diagram 14

Multi-Location Installation (120 V∼)1, 4, 5, 6

-OPS6M-DV and -VPS6M-DV with MA-AS or MSC-AS

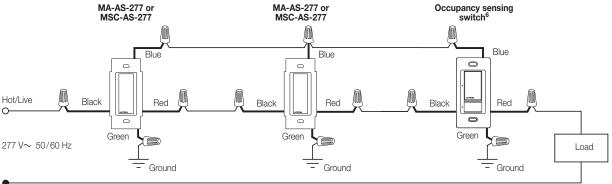


Neutral

Wiring Diagram 15

Multi-Location Installation (277 $V\sim$)^{1, 2, 3, 4, 5, 6}

-OPS6M-DV and -VPS6M-DV with MA-AS-277 or MSC-AS-277



Neutral

- 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 or to ground.
- Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).
- ³ Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
- ⁴ Up to 9 companion switches may be connected to an Occupancy sensing switch. Total blue terminal wire length may be up to 250 ft (76 m).
- ⁵ Only one Occupancy sensing switch can be used per multi-location circuit.
- ⁶ Occupancy sensing switch can be installed in any location.

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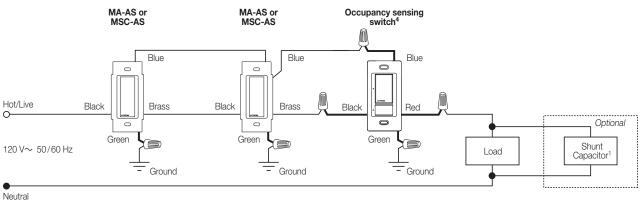
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Wiring Diagrams (continued)

Wiring Diagram 16

Multi-Location Installation with Shunt Capacitor (120 V∼)^{1, 2, 3, 4}

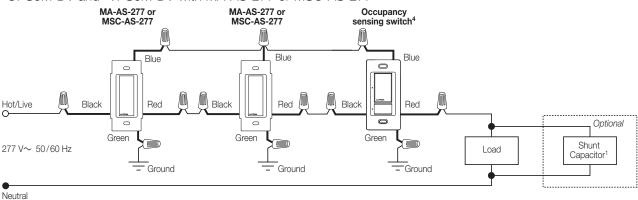
-OPS6M-DV and -VPS6M-DV with MA-AS or MSC-AS



Wiring Diagram 17

Multi-Location Installation with Shunt Capacitor (277 V~)1, 2, 3, 4, 5

-OPS6M-DV and -VPS6M-DV with MA-AS-277 or MSC-AS-277



- Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
- ² Up to 9 companion switches may be connected to an Occupancy sensing switch. Total blue terminal wire length may be up to 250 ft (76 m)
- Only one Occupancy sensing switch can be used per multi-location circuit.
- Occupancy sensing switch can be installed in any location.
- ⁵ Fan load applies to 120 $V\sim$ only (not for 277 $V\sim$).

\$LUTRON SPECIFICATION SUBMITTA

Job Name:	Model Numbers:
Job Number:	

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Colors and Finishes

Gloss Finishes



White WH



Ivory IV



Almond AL



Light Almond



Gray GR



Brown BR



Black BL

Satin Finishes



Hot HT



Merlot MR



Plum PL



Turquoise TQ



Taupe TP



Eggshell ES



Biscuit Bl



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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Job Name:	Model Numbers:
Job Number:	