

Maestro® Occupancy sensing switch

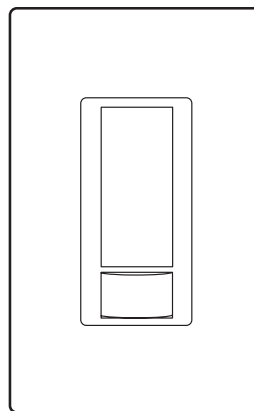
The Lutron® Maestro® Occupancy sensing switch combines a Maestro® switch with a passive infrared occupancy or vacancy sensor. The sensor detects the heat from occupants moving within an area to determine whether the space is occupied. Based on the feedback from the sensor, the occupancy sensing switch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

Features

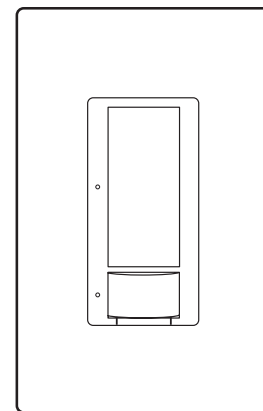
- Passive infrared sensors with exclusive Lutron® XCT™ Technology for fine motion detection
- 180° sensor field-of-view
- Up to 30 ft x 30 ft (9 m x 9 m) [900 ft² (81 m²)] major motion coverage and 20 ft x 20 ft (6 m x 6 m) [400 ft² (36 m²)] minor motion coverage
- Occupancy version can be set to Auto-ON / 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.

Models available

- MS-OPS2
- MS-OPS5M
- MS-OPS6M2-DV
- MS-OPS6M2N-DV
- UMS-OPS6M-DV
- MS-VPS2
- MS-VPS5M
- MS-VPS6M2-DV
- MS-VPS6M2N-DV
- UMS-VPS6M-DV



MS-OPS2
MS-OPS5M
MS-OPS6M2-DV
MS-OPS6M2N-DV
MS-VPS2
MS-VPS5M
MS-VPS6M2-DV
MS-VPS6M2N-DV



UMS-OPS6M-DV
UMS-VPS6M-DV

| | | |
|--------------------------------------------|-----------------------------------------------|----------------------|
| Job Name: <input type="text"/> | Model Numbers: <input type="text"/> | |
| Job Number: <input type="text"/> | <input type="text"/> | <input type="text"/> |

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](#).
- For Maestro® Occupancy sensing dimmer models, please see [Lutron® P/N 369270](#).
- 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](#).
- For more information, please see www.lutron.com/occvacensors
- Lutron Technical Hotline: 1.800.523.9466.

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%20XCT%204-23-09%20B.pdf

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.

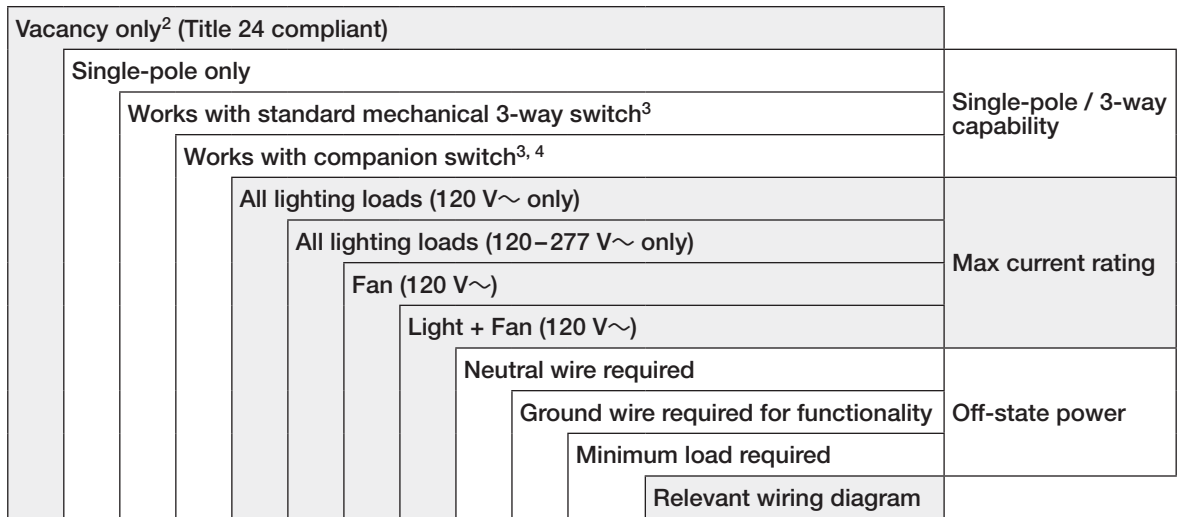
Manual Off-While-Occupied Options

(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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Selection Matrix



Model Number¹

| | | | | | | | | | | | | |
|------------------------------|---|---|---|---|-----|-----|-----|-----|---|---|------|---------|
| MS-OPS2-XX | | ✓ | | | 2 A | | | | | ✓ | | 1 |
| MS-OPS5M-XX | | | ✓ | ✓ | 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 |

¹ XX in model number represents color/finish code.

² 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.

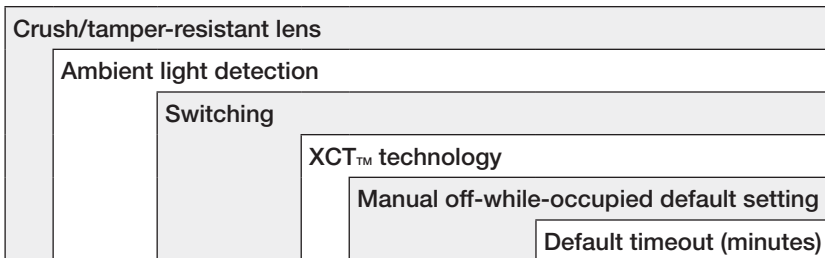
³ Standard mechanical 3-way switch cannot be combined with companion switch.

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



Model Number¹

| | | | | | | |
|------------------|---|---------|-------------|---|----------|----|
| MS-OPS2-XX | | Smart | Standard | ✓ | Disabled | 5 |
| MS-OPS5M-XX | | 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 |

¹ XX in model number represents color/finish code.

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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.

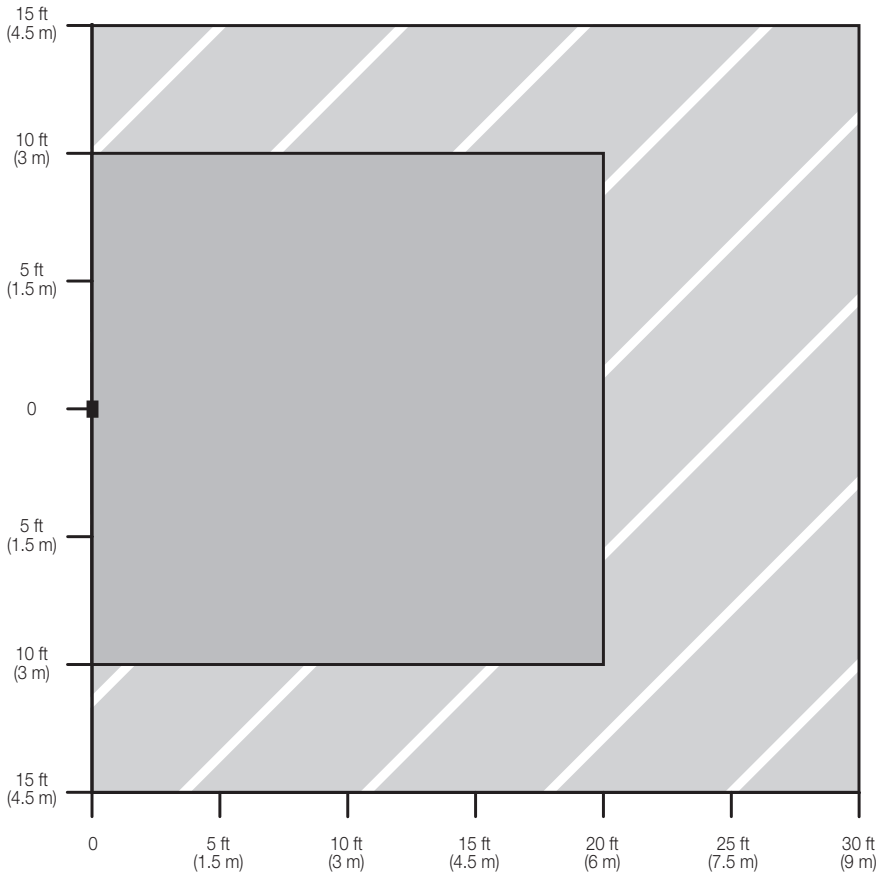
Definitions

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

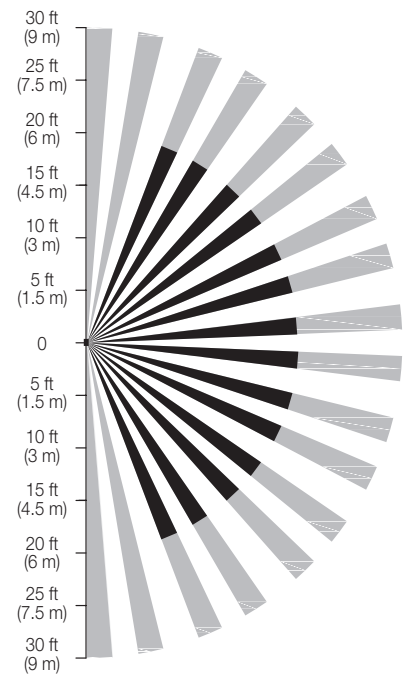
Minor motion: movement of a person occupying an area and engaging in small activities (e.g., reaching for a telephone, turning the pages of a book, opening a file folder, picking up a coffee cup).

NEMA WD7 Coverage

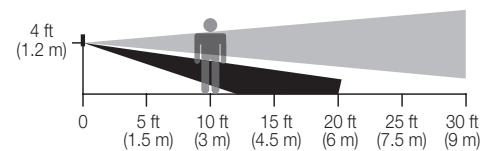
-  Major motion coverage: 900 ft² (81 m²)
-  Minor motion coverage: 400 ft² (36 m²)



Horizontal Beam Diagram



Vertical Beam Diagram

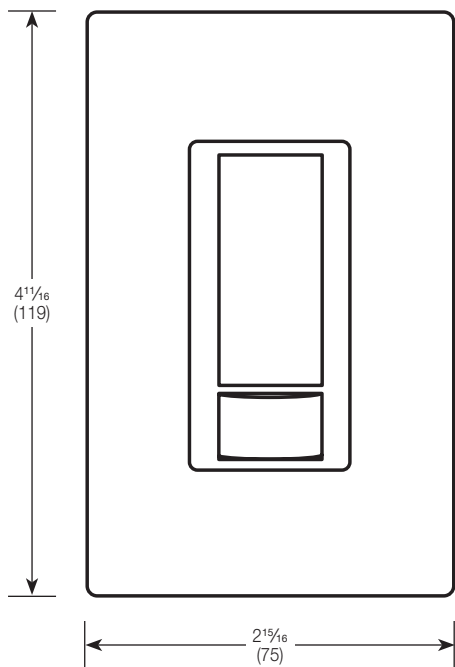


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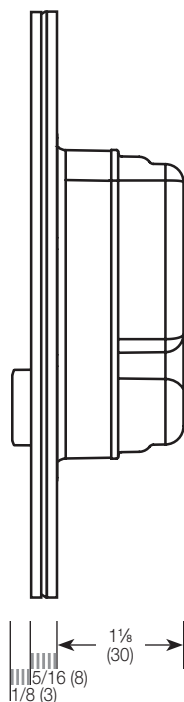
Dimensions

Measurements shown as: in (mm).

Front View



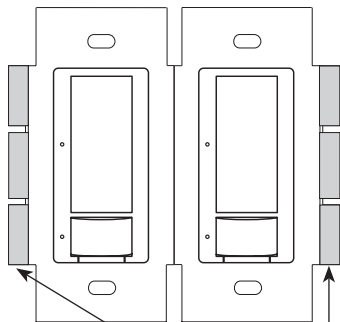
Side View



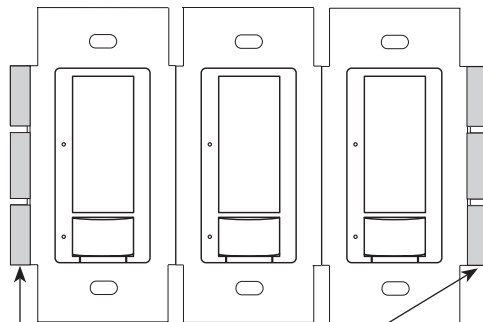
Ganging

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

Each control has inside fins removed



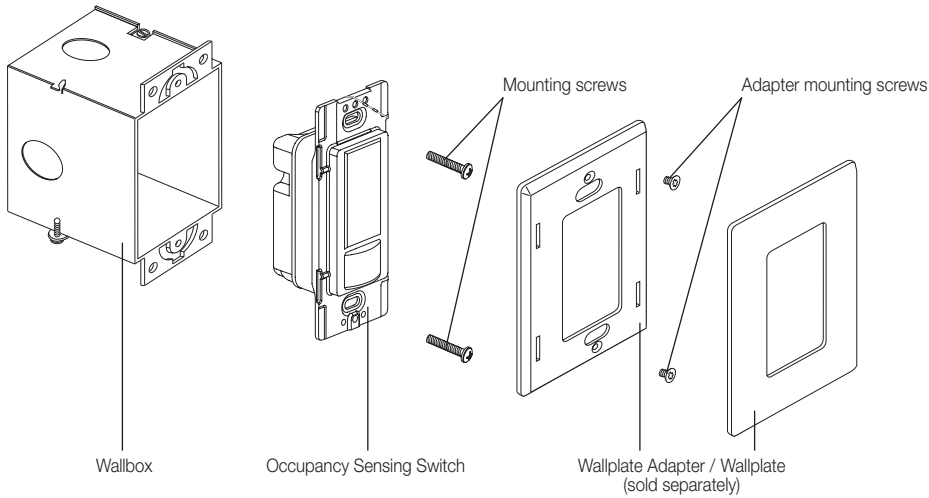
Middle of Gang control has all fins removed



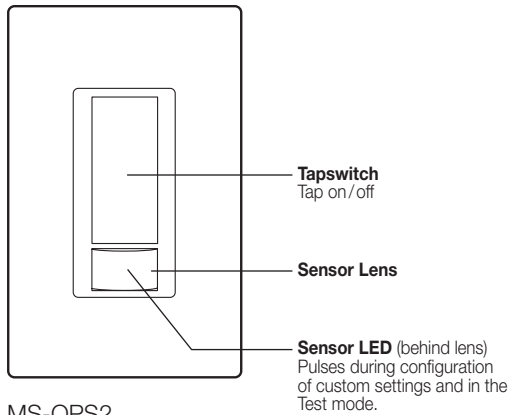
Do NOT remove outside fins on End of Gang controls

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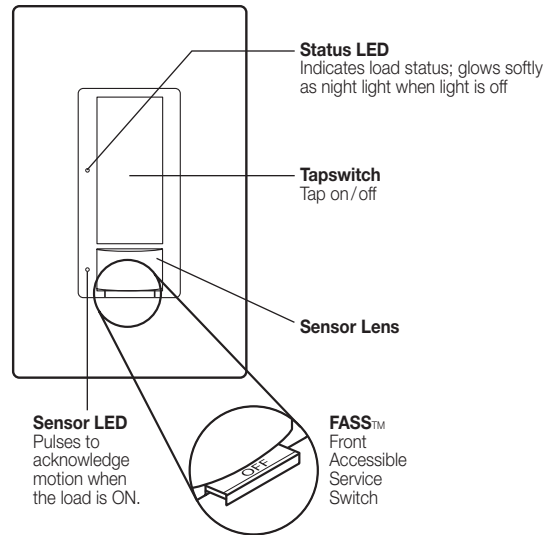
Mounting



Operation



- MS-OPS2
- MS-OPS5M
- MS-OPS6M2-DV
- MS-OPS6M2N-DV
- MS-VPS2
- MS-VPS5M
- MS-VPS6M2-DV
- MS-VPS6M2N-DV



- UMS-OPS6M-DV
- UMS-VPS6M-DV

IMPORTANT NOTICE

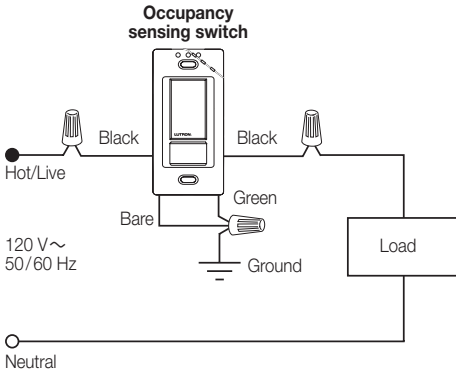
FASS™ — Front Accessible Service Switch —
To service load, remove power by pulling the FASS™ switch out completely on either the Dimmer or Companion Dimmer. After servicing load, push the FASS™ switch back in fully to restore power to the control.

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Wiring Diagrams

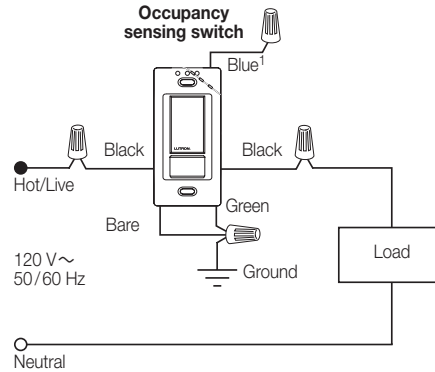
Wiring Diagram 1

Single Location Installation (120 V~)
-OPS2 and -VPS2



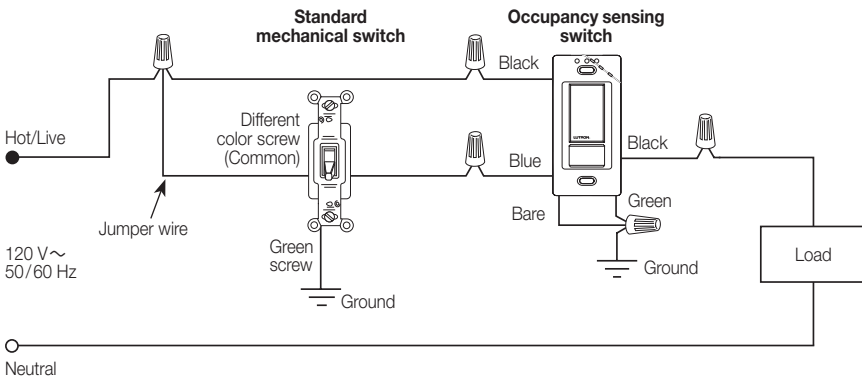
Wiring Diagram 2

Single Location Installation (120 V~)¹
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV

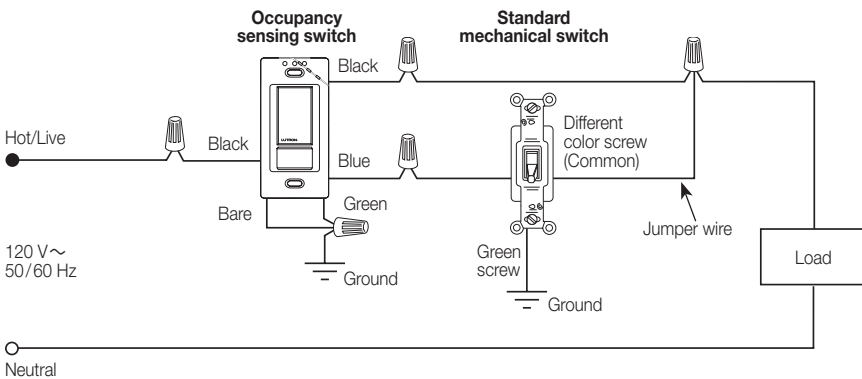


Wiring Diagram 3

3-way Installation with Standard Mechanical Switch (120 V~)^{2, 3}
-OPS5M, -OPS6M2-DV, -VPS5M, -VPS6M2-DV



OR



- 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.
- ³ 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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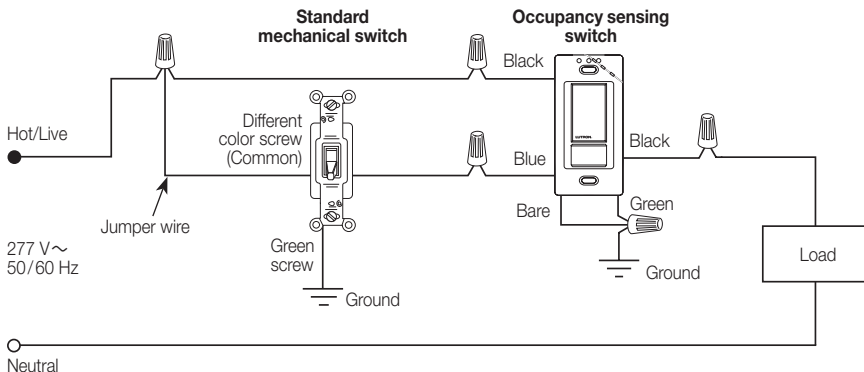
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Wiring Diagrams (continued)

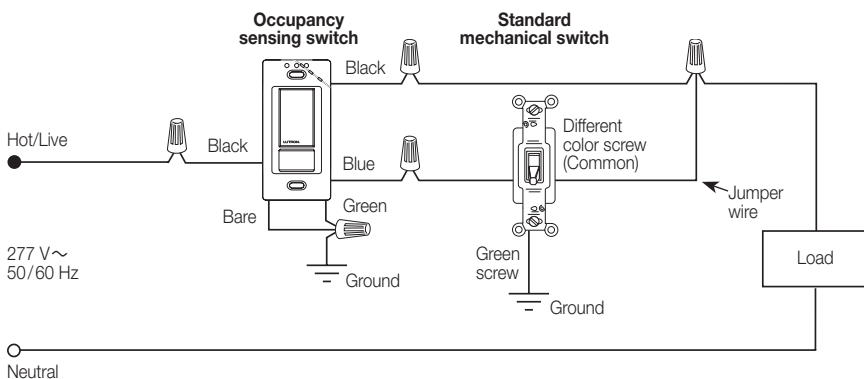
Wiring Diagram 4

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

-OPS6M2-DV, -VPS6M2-DV



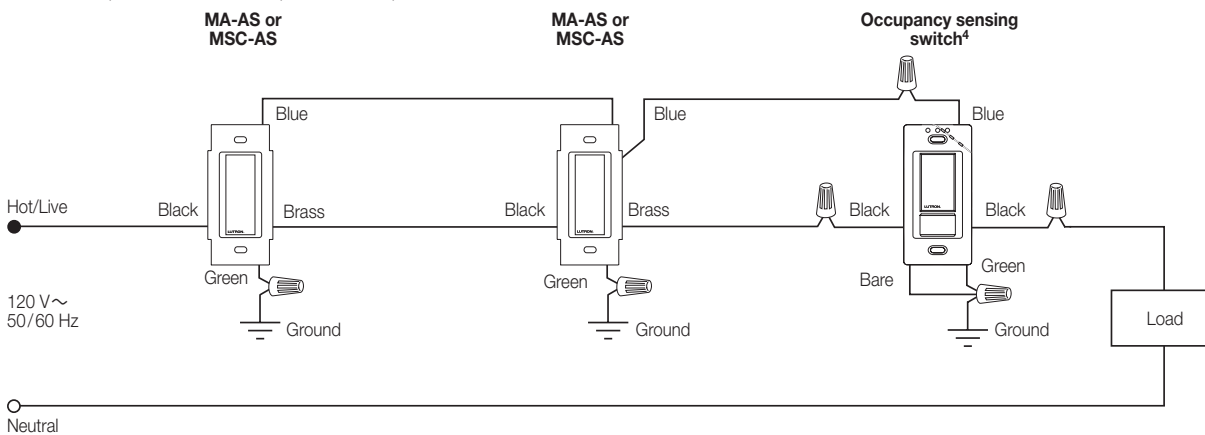
OR



Wiring Diagram 5

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

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



- ¹ 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.
- ³ Fan load applies to 120 V~ only (not for 277 V~).
- ⁴ Occupancy sensing switch can be installed in any location.

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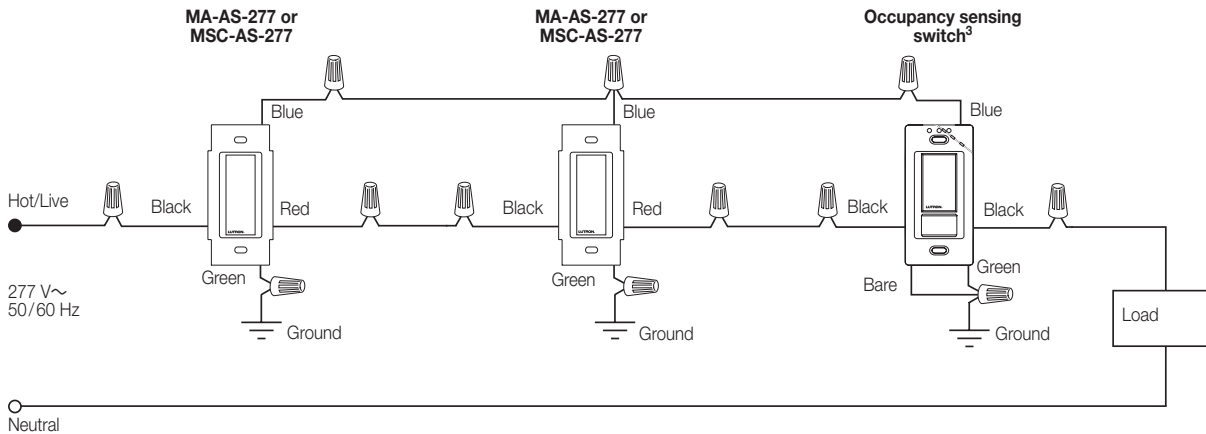
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Wiring Diagrams (continued)

Wiring Diagram 6

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

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



- ¹ 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.
- ³ Occupancy sensing switch can be installed in any location.
- ⁴ Fan load applies to 120 V~ only (not for 277 V~).

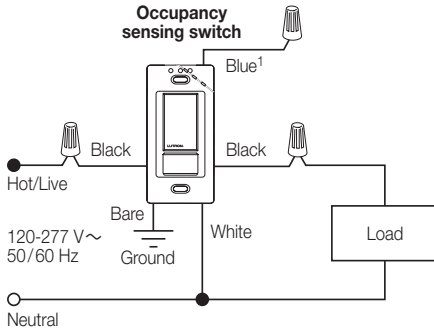
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Wiring Diagrams (continued)

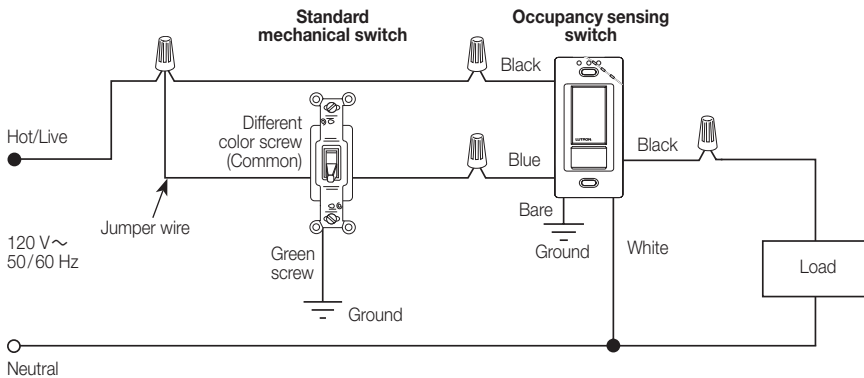
Wiring Diagram 7

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

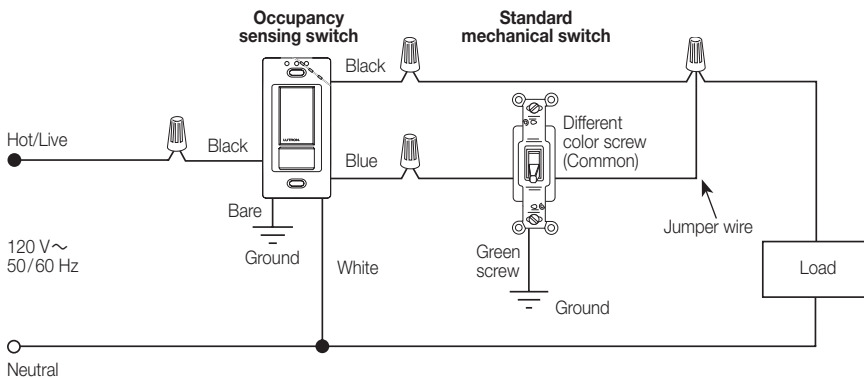


Wiring Diagram 8

3-way Installation with Standard Mechanical Switch (120 V~)^{3, 4}
-OPS6M2N-DV, -VPS6M2N-DV



OR



- 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 Fan load applies to 120 V~ only (not for 277 V~).
- ³ 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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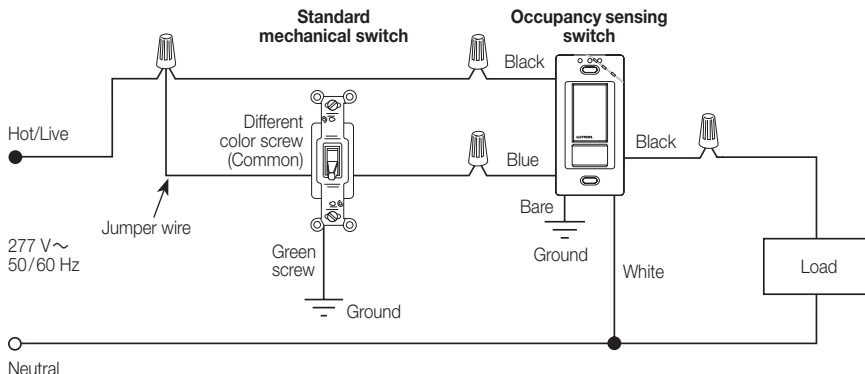
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| Job Name: | Model Numbers: | |
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Wiring Diagrams (continued)

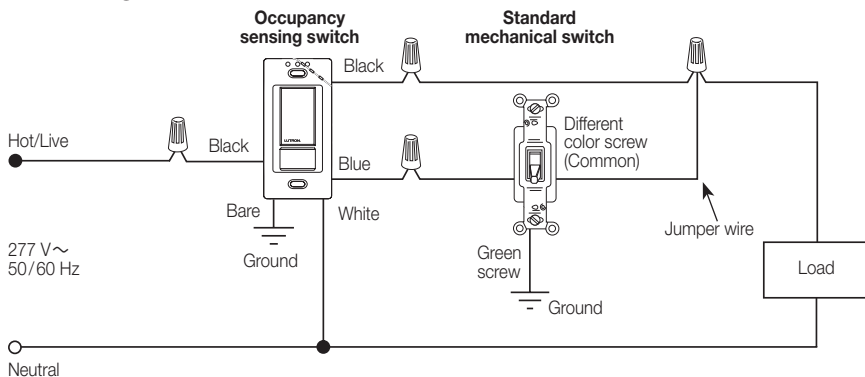
Wiring Diagram 9

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

-OPS6M2N-DV, -VPS6M2N-DV



OR



- ¹ Only one Occupancy sensing switch can be used per multi-location circuit.
- ² 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).
- ³ Fan load applies to 120 V~ only (not for 277 V~).

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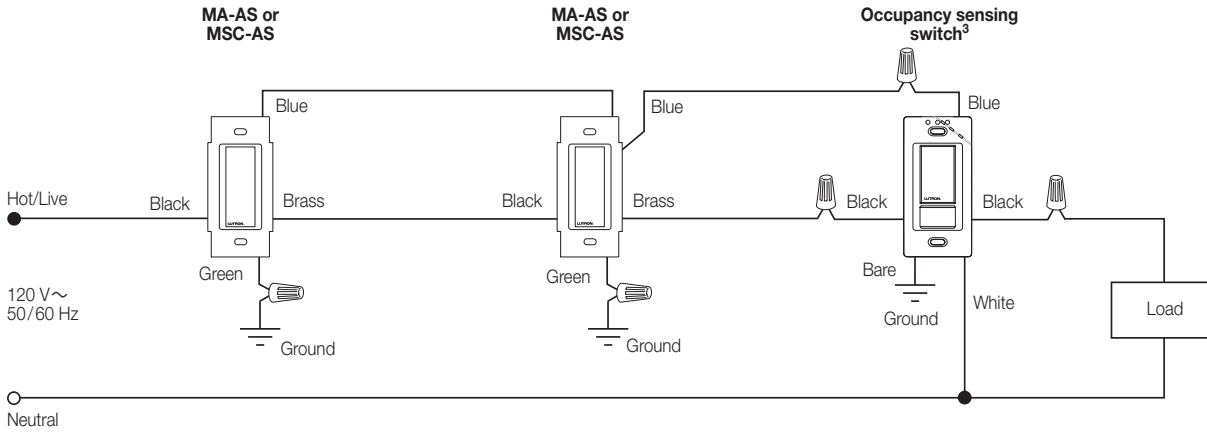
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Wiring Diagrams (continued)

Wiring Diagram 10

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

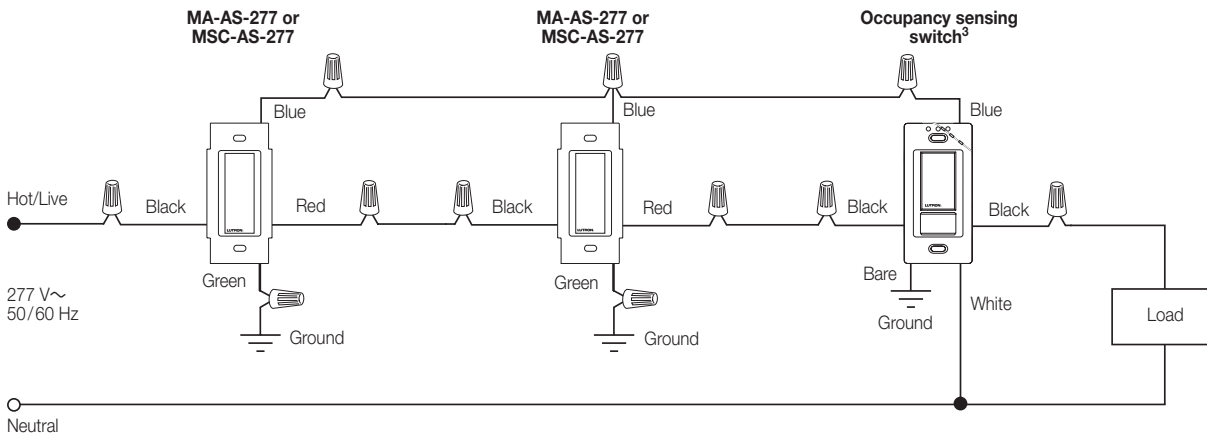
-OPS6M2N-DV, -VPS6M2N-DV with MA-AS or MSC-AS



Wiring Diagram 11

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

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



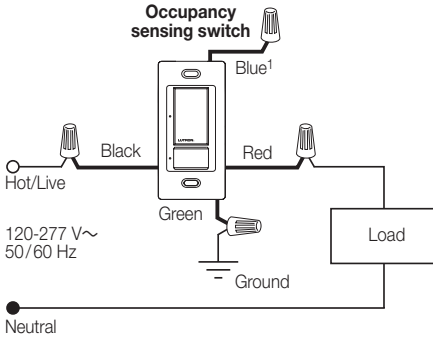
- ¹ A single standard mechanical 3-way switch or up to 9 companion switches may be connected to most Occupancy sensing switches. Standard mechanical 3-way switch cannot be combined with companion switch. Total blue terminal wire length may be up to 150 ft (46 m).
- ² Only one Occupancy sensing switch can be used per multi-location circuit.
- ³ 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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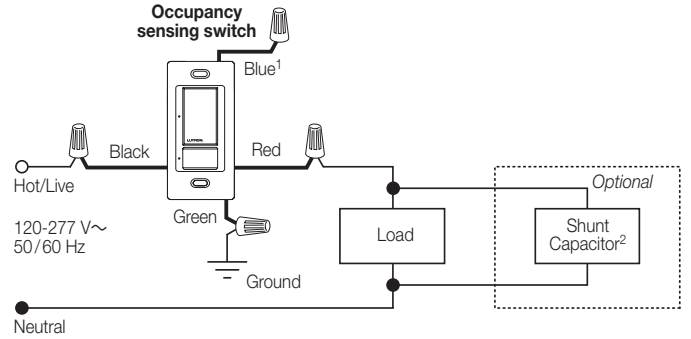
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Wiring Diagrams (continued)

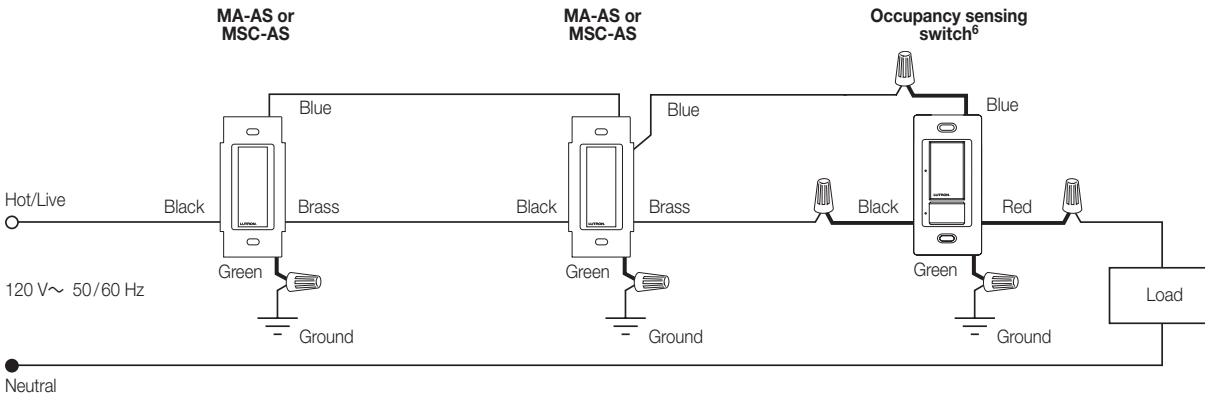
Wiring Diagram 12
Single Location Installation^{1, 2}
-OPS6M-DV and -VPS6M-DV



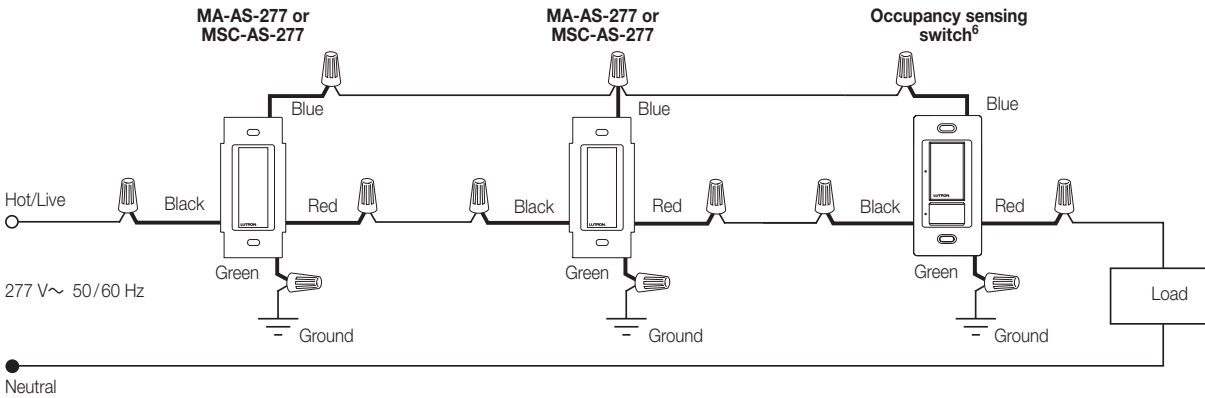
Wiring Diagram 13
Single Location Installation with Shunt Capacitor^{1, 2, 3}
-OPS6M-DV and -VPS6M-DV



Wiring Diagram 14
Multi-Location Installation (120 V~)^{1, 4, 5, 6}
-OPS6M-DV and -VPS6M-DV with MA-AS or MSC-AS



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



- 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 Fan load applies to 120 V~ only (not for 277 V~).
- 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.

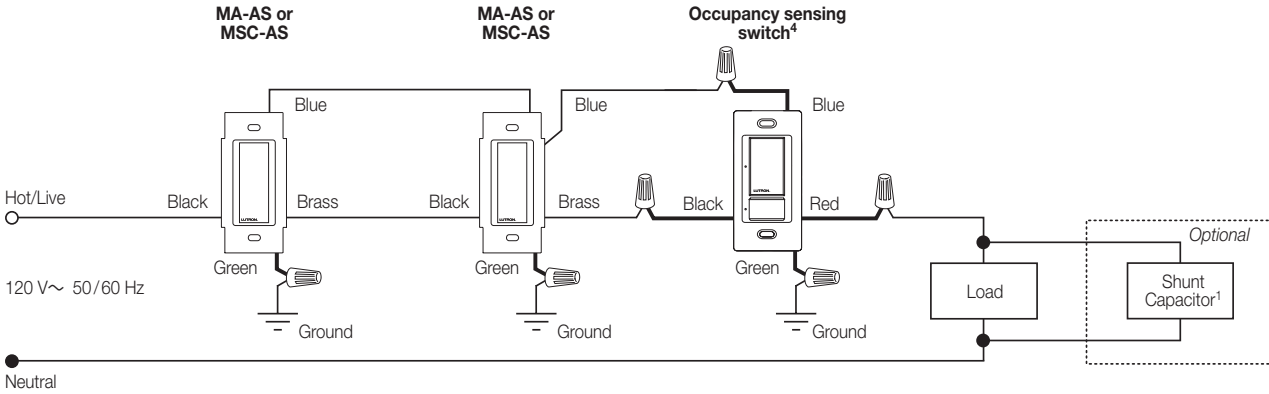
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Wiring Diagrams (continued)

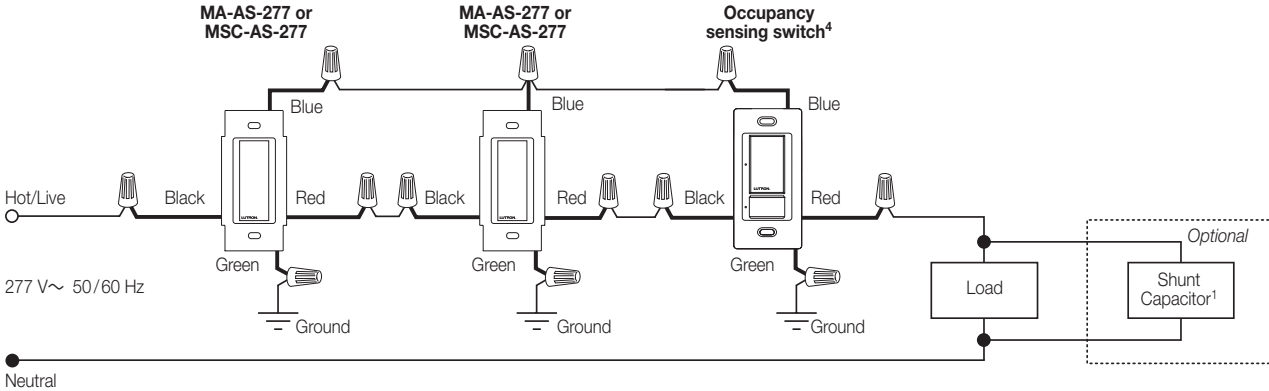
Wiring Diagram 16

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

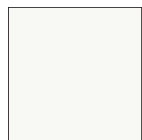


- ¹ Optional shunt capacitor must be installed inside the load fixture or in a separate J-box.
- ² Up to 9 companion switches may be connected to an Occupancy sensing switch. Total blue terminal wire length may be up to 250 ft (76 m)
- ³ Only one Occupancy sensing switch can be used per multi-location circuit.
- ⁴ Occupancy sensing switch can be installed in any location.
- ⁵ Fan load applies to 120 V~ only (not for 277 V~).

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| Job Number: | <input type="text"/> | <input type="text"/> |

Colors and Finishes

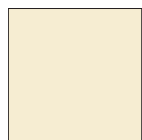
Gloss Finishes



White
WH



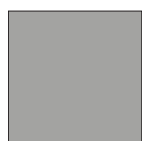
Ivory
IV



Almond
AL



Light Almond
LA



Gray
GR



Brown
BR



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



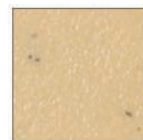
Greenbriar
GB



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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| Job Number: | <input type="text"/> | <input type="text"/> |