Lutron MS-OPS6M2-DV-GR

Lutron Maestro MS-OPS6M2-DV-GR Occupancy Sensing Switch Instruction Manual

Model: MS-OPS6M2-DV-GR | Brand: Lutron

1. Introduction

The Lutron Maestro Occupancy Sensing Switch is designed to automatically turn lights on and off based on room occupancy, providing convenience and energy savings. This switch supports multi-location control and is compatible with various lighting loads and general-purpose fans.

Key Features:

- Multi-location, single pole or 3-way operation.
- Supports up to 6-Amps for lighting (120 Volts or 277 Volts) and 3-Amps for fans.
- Compatible with incandescent, halogen, magnetic and electronic low-voltage, non-dim LED, and non-dim fluorescent bulbs, as well as general purpose fans.
- Automatic light control based on occupancy.
- Requires a ground wire for installation.

2. Important Safety Information

WARNING: RISK OF ELECTRIC SHOCK. May result in serious injury or death. Turn off power at circuit breaker or fuse before installing. Ensure power is OFF before proceeding with installation.

- Install in accordance with all national and local electrical codes.
- This device must be installed by a qualified electrician if you are unsure about the wiring process.
- Do not use with loads exceeding the specified amperage.
- For indoor use only.

3. Package Contents

Your package should include the Lutron Maestro Occupancy Sensing Switch and an instruction guide. Additional accessories like wall plates are sold separately.

Figure 1: Front view of the Lutron Maestro Occupancy Sensing Switch in gray.

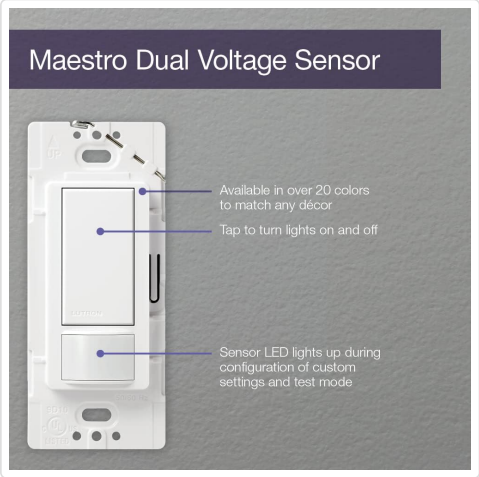

Figure 2: Back view of the Lutron Maestro Dual Voltage Sensor, highlighting wiring points and features like the tap switch and sensor LED.

4. Installation

Before beginning, ensure power is turned OFF at the circuit breaker. Use a voltage tester to confirm the power is off before touching any wires.

4.1 Single-Pole Installation

1. **Turn off power:** Locate your circuit breaker and turn off the power to the switch you are replacing. Double-check with a voltage tester.
2. **Remove existing switch:** Unscrew and carefully pull out the existing switch from the wall box.
3. **Identify wires:** You should have two wires from the wall connected to your old switch, plus a ground wire. Identify if you have a neutral (typically white) or ground (bare copper or green) wire coming out of the wall box.
4. **Wire the new sensor:**

- If a neutral wire is available: Remove the green sleeve from the sensor's white wire and connect the sensor's white wire to the neutral wire from the wall. Connect the sensor's bare wire to the ground wire from the wall.
- If no neutral wire is available: Leave the green sleeve on the sensor's white wire. Connect both the sensor's green wire (with sleeve) and the sensor's bare wire to the ground wire from the wall.
- Connect one of the two wires from your wall to one of the black wires on your new sensor.
- Connect the remaining wire from the wall to the other black wire on your sensor.
- Place a wire cap on the blue wire from the sensor. This is not used in a single-pole application.

5. **Mount the sensor:** Carefully push all wires back into the wall box and secure the sensor with screws.
6. **Install wall plate:** Attach your wall plate (sold separately).
7. **Restore power:** Turn the power back on at the circuit breaker.

Video 1: Installation guide for Lutron Maestro 5 Amp & 6 Amp Sensor Switch in a single-pole configuration. This video demonstrates the step-by-step process of replacing an existing switch with the Maestro sensor, including safety precautions, wire identification, and final mounting.

4.2 Multi-Location (3-Way) Installation

For multi-location setups (where two switches control the same light), you will install the Maestro sensor in one location and a Maestro companion switch (MA-AS or MSC-AS) or update an existing 3-way switch in the other location(s).

1. **Turn off power:** Turn off power at the circuit breaker.
2. **Remove existing switches:** Unscrew and carefully pull out the existing switches from both wall boxes.
3. **Identify wires at the Maestro sensor location:** You should have three wires plus a ground connected to your old switch. Take a piece of electrical tape and tag the wire connected to the different colored screw of the existing switch (typically a black wire).
4. **Wire the Maestro sensor:** Follow the neutral/ground wiring steps as in single-pole installation. Connect the tagged wire (from the different colored screw) to one of the black wires on your new sensor. Connect the remaining two wires from the wall to the remaining black wire and the blue wire on the sensor. Make a note of the color wire you connect to the blue wire, as this will be important for the second location.
5. **Mount the Maestro sensor:** Secure the sensor in its wall box.
6. **Wire the second location (Companion Switch):**
    - At the second location, identify the common wire (the one connected to the different colored screw on the old switch). Attach this common wire to the black screw on the companion switch.
    - Identify the same color wire you connected to the blue wire in the first location. Connect this wire to the blue screw on the companion switch.
    - Connect the remaining two wires each to the black and brass screws on the companion switch. (The black and brass screws are interchangeable in this location).
    - Connect the green wire to ground.
7. **Wire the second location (Update Existing Switch with Jumper Wire):**
    - At the second location, identify the common wire (the one connected to the different colored screw on the old switch). Remove only this tagged wire from the switch.
    - Identify the wire that is the same color as what you attached to the blue wire in the sensor location. Leave this wire connected.

- Remove the remaining wire from the switch.
- Connect the two removed wires together, along with the yellow jumper wire (included in package).
- Connect the other end of the yellow jumper wire to the black screw on the existing switch.

8. **Mount switches and restore power:** Secure all switches in their wall boxes, install wall plates, and turn the power back on at the circuit breaker.

Video 2: Installation guide for Lutron Maestro 5 Amp & 6 Amp Switch in multi-location (3-way) setups. This video details how to wire the main sensor and companion switches or update existing switches for multi-point control.

5. Setup & Configuration

After installation, your new sensor will take approximately one minute to power up. During this time, you can still manually turn the lights on and off using the paddle switch. Once powered up, it will begin automatic operation.
For detailed instructions on how to change the timeout settings, sensitivity, and sensor mode (occupancy/vacancy), please refer to the full product manual available on the Lutron website: lutron.com/OPS5M.

6. Operation

The Maestro Occupancy Sensing Switch offers both automatic and manual control:

- **Automatic Operation:** The sensor detects motion and ambient light to automatically turn lights on when you enter a room and off when you leave.
- **Manual Control:** You can manually turn the lights on or off at any time by tapping the large paddle switch.

Video 3: Lutron Sensors: Key Benefits. This video highlights the advanced XCT Technology for superior sensitivity, detecting both major and fine motion, ensuring lights stay on when needed.

7. Maintenance

To maintain optimal performance and appearance of your Lutron Maestro switch:

- Clean with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the sensor lens is clear of obstructions for accurate motion detection.

8. Troubleshooting

If your Maestro Occupancy Sensing Switch is not functioning as expected, consider the following:

- **Lights not turning on/off automatically:** Check the sensor's sensitivity and timeout settings. Ensure there are no obstructions blocking the sensor's view.
- **Lights flickering or not working:** Verify all wiring connections are secure and correct. Ensure the power is on at the circuit breaker. Confirm the load (bulbs/fan) is compatible with the switch.
- **Power issues:** If the switch has no power, check the circuit breaker.

For more detailed troubleshooting, refer to the full product manual or contact Lutron customer support.

9. Specifications

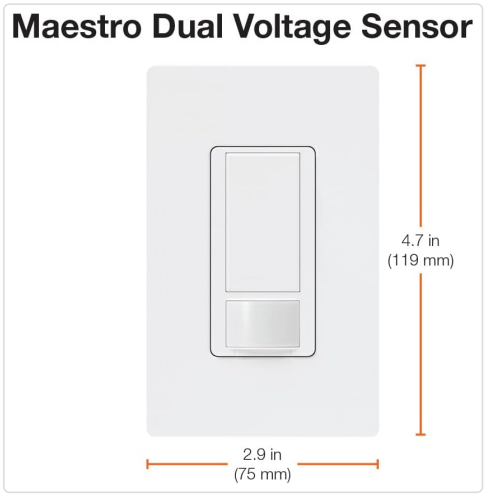

Figure 3: Dimensions of the Lutron Maestro Dual Voltage Sensor.

Feature	Detail
Model Number	MS-OPS6M2-DV-GR
Operation Mode	Automatic
Current Rating	6 Amps
Operating Voltage	120 Volts / 277 Volts
Circuit Type	3-Way/Single Pole
Actuator Type	Push Button
Control Method	Touch
Color	Gray
Wattage	720 watts
Product Dimensions	2.4 x 4 x 5.8 inches
Item Weight	0.32 ounces
Compatible Devices	Incandescent bulbs, Halogen bulbs, Magnetic low-voltage bulbs, Electronic low-voltage bulbs, Non-dim LED bulbs, Non-dim fluorescent bulbs, General purpose fans

10. Warranty and Support

For warranty information and customer support, please visit the official Lutron website or contact their customer service directly. Keep your purchase receipt for warranty claims.
Lutron Customer Support: www.lutron.com/support