Lutron MS-OPS2-WH

Lutron Maestro MS-OPS2-WH Motion Sensor Light Switch Instruction Manual

Brand: Lutron | Model: MS-OPS2-WH

1. INTRODUCTION

The Lutron Maestro Motion Sensor Light Switch (model MS-OPS2-WH) is designed to automatically control lighting based on occupancy and ambient light levels. This single-pole switch offers convenience and energy savings by turning lights on when a room is entered and off when it is vacated. It is compatible with various bulb types, including CFL, LED, incandescent, halogen, and electronic low voltage.

2. SAFETY PRECAUTIONS

WARNING: Risk of Electric Shock. Improper installation can result in serious injury or death. Always turn off power at the circuit breaker or fuse box before installing or servicing this device. Consult a qualified electrician if you are unsure about any part of the installation process. Use this device with copper or copper-clad wire only.

- Turn off power at the circuit breaker before installation.
- Ensure all wiring connections are secure.
- Do not install if the product appears damaged.
- For indoor use only.

3. PACKAGE CONTENTS

- 1x Lutron Maestro MS-OPS2-WH Motion Sensor Switch
- Wiring hardware (wire nuts, screws)
- Instruction sheet

Note: A coordinating wall plate is sold separately.

4. SPECIFICATIONS

Operation Mode	Automatically, Off
Current Rating	2 Amps
Operating Voltage	120 Volts

Circuit Type	1-way (Single-Pole)
Compatible Bulb Types	150W CFL/LED, 250W Incandescent/Halogen/ELV, 200W MLV, 2A Ballasts
Dimensions (L x W x H)	4.2 x 2 x 1.75 inches (119 x 75 x 30 mm)
Color	White

5. SETUP AND INSTALLATION

Installation typically takes around 15 minutes. Follow these steps carefully:

1. **Turn Off Power:** Locate the circuit breaker or fuse box that controls the light switch you are replacing. Turn off the power to that circuit. Verify the power is off using a voltage tester.

2. **Remove Existing Switch:** Carefully remove the wall plate and unscrew the existing switch from the wall box. Disconnect the wires from the old switch.

3. **Wire the Maestro Switch:** The Maestro switch requires a ground wire connection. If no neutral wire is present in your wall box, the switch can be installed using the ground wire. Connect the wires as follows:
   - Connect the **green ground wire** from the Maestro switch to the bare copper or green ground wire in the wall box.
   - Connect the **black wire** from the Maestro switch to the incoming hot wire in the wall box.
   - Connect the **remaining black wire** from the Maestro switch to the load wire (going to the light fixture).
   - If a **neutral wire** (typically white) is present in your wall box, connect the blue wire from the Maestro switch to the neutral bundle. If no neutral is present, cap off the blue wire.
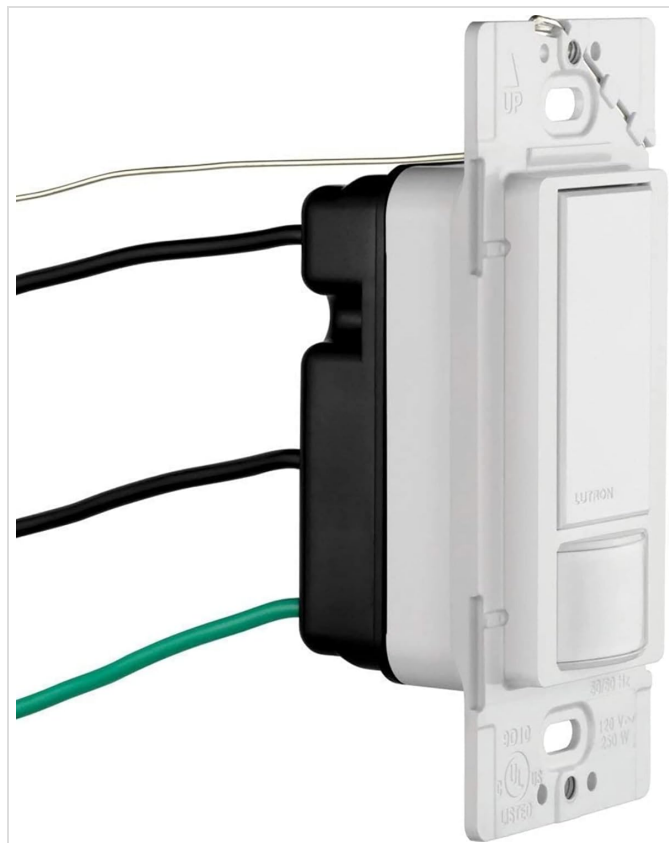

Figure 1: Side view of the Maestro switch showing wiring connections.

Figure 2: Back view of the Maestro switch, illustrating wire terminals.

4. **Mount the Switch:** Carefully push the wired switch into the wall box. Secure it with the provided screws.

5. **Install Wall Plate:** Attach a compatible decorator-style wall plate (sold separately) over the switch.

6. **Restore Power:** Turn the power back on at the circuit breaker.
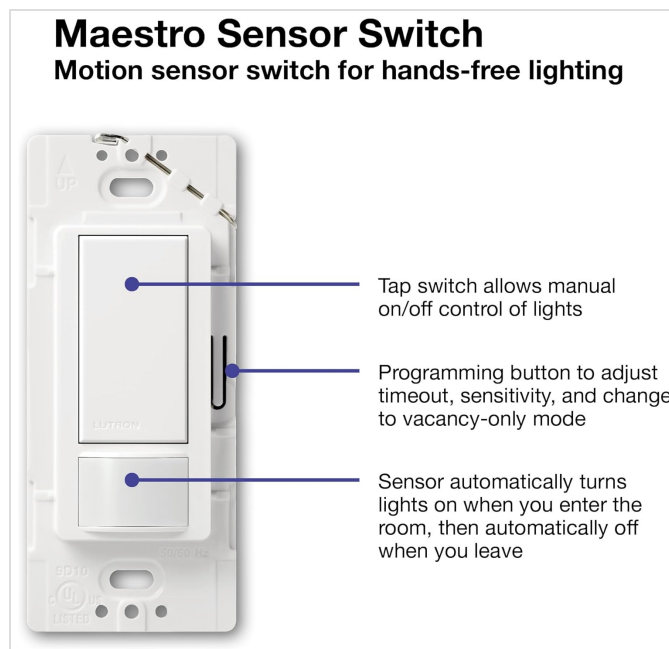
6. OPERATING INSTRUCTIONS

Maestro Sensor Switch
Motion sensor switch for hands-free lighting

Tap switch allows manual on/off control of lights

Programming button to adjust timeout, sensitivity, and change to vacancy-only mode

Sensor automatically turns lights on when you enter the room, then automatically off when you leave

Figure 3: Key components of the Maestro Motion Sensor Switch.

6.1. Manual Control

Press the large **Tap Switch** button (top part of the switch) to manually turn the lights ON or OFF. The sensor will resume automatic operation after a manual override.

6.2. Operating Modes

The Maestro switch supports multiple operating modes. To change modes, remove the wall plate to access the small programming button on the side of the switch. Press and hold the programming button until the indicator light flashes to cycle through modes.

- **Occupancy Mode (Auto ON, Auto OFF):** Lights turn on automatically when motion is detected and turn off automatically after the room is vacated and the set timeout period expires. This is the default mode.

- **Vacancy Mode (Manual ON, Auto OFF):** Lights must be turned on manually by pressing the Tap Switch. They will turn off automatically after the room is vacated and the set timeout period expires.

- **Daylight Sensing:** The sensor measures ambient light. If sufficient natural light is present, the lights will not turn on automatically, even if motion is detected. This feature helps save energy by preventing lights from turning on unnecessarily.

6.3. Adjusting Timeout Settings

The switch can be programmed to turn off lights after 1, 5, 15, or 30 minutes of no occupancy. To adjust this setting, press and hold the large Tap Switch button until the indicator light flashes a specific number of times corresponding to the desired timeout:

- 1 flash: 1 minute timeout
- 2 flashes: 5 minute timeout
- 3 flashes: 15 minute timeout
- 4 flashes: 30 minute timeout

6.4. Adjusting Motion Sensitivity

The motion sensor's sensitivity can be adjusted. To do this, simultaneously press and hold both the large Tap Switch button and the small programming button on the side of the switch. The indicator light will flash to confirm the change between high and low sensitivity settings.

7. MAINTENANCE

To clean the switch, wipe it with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the sensor lens is clear of dust and obstructions for optimal performance.
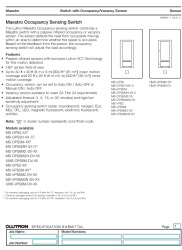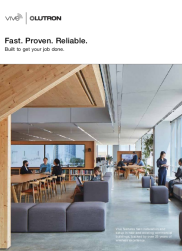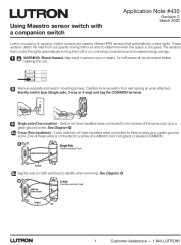
8. TROUBLESHOOTING

- **Lights do not turn on:**
  - Check if the circuit breaker is ON.
  - Ensure all wiring connections are secure.
  - Verify the operating mode is set to Occupancy (Auto ON).
  - Check if Daylight Sensing is active and there is sufficient ambient light.

- **Lights turn off too quickly/slowly:**
  - Adjust the timeout setting as described in Section 6.3.
  - Ensure the sensor is not obstructed and has a clear view of the room.

- **Lights turn on unexpectedly:**
  - Adjust the motion sensitivity as described in Section 6.4.
  - Ensure the sensor is not detecting motion from outside the intended area.

9. WARRANTY AND SUPPORT

The Lutron Maestro Motion Sensor Light Switch comes with a 10-year warranty upon product registration. A 5-year warranty is provided without registration. For technical assistance or further information, please refer to the official Lutron support channels.
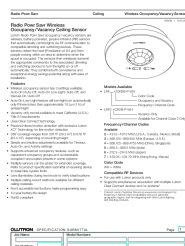
Related Documents - MS-OPS2-WH

[Lutron Maestro Occupancy/Vacancy Sensor Switch: Specifications, Features, and Wiring Diagrams](#)
Comprehensive specifications, features, advanced XCT Technology, custom settings, selection matrix, dimensions, mounting, operation, and detailed wiring diagrams for the Lutron Maestro Occupancy/Vacancy Sensor Switch. Learn about its energy-saving capabilities and installation options.

[Lutron Maestro Occupancy Sensing Switch Installation Guide](#)
Detailed installation instructions and specifications for the Lutron Maestro MS-OPS2 and MS-VPS2 occupancy sensing switches. Covers wiring, custom settings, important safety notes, and limited warranty information.

[Lutron Vive Wireless Lighting Control System: Design Guide and Product Catalog](#)
Explore the Lutron Vive wireless lighting control system. This comprehensive guide details features, benefits, energy-saving strategies, and product options for efficient, comfortable, and productive commercial environments. Learn about installation, system integration, and technical specifications.

[Lutron Maestro Sensor Switch with Companion Switch Installation Guide](#)

This guide provides detailed instructions for installing and wiring Lutron Maestro sensor switches with companion switches for single-pole, 3-way, and 4-way applications. It covers wiring diagrams, switch identification, and important safety precautions.

[Lutron Occupancy Sensing Switch Installation Guide](#)

A comprehensive guide for installing the Lutron Occupancy Sensing Switch (MS-OPS2, MS-VPS2), covering wiring, setup, and troubleshooting.

[Lutron Radio Powr Savr Wireless Occupancy/Vacancy Ceiling Sensor Specifications](#)

Comprehensive specifications, features, and installation details for the Lutron Radio Powr Savr Wireless Occupancy/Vacancy Ceiling Sensor, a battery-powered PIR sensor for automated lighting control.