Lutron MS-OPS2H-2-WH

Lutron Maestro Motion Sensor Light Switch User Manual

Model: MS-OPS2H-2-WH
Brand: Lutron

Introduction

The Lutron Maestro Occupancy/Vacancy Motion Sensor Switch is designed to enhance home automation by providing automatic lighting control. This versatile switch is suitable for various indoor spaces such as bathrooms, laundry rooms, kitchens, and garages, contributing to energy savings and increased convenience. It is compatible with all bulb types, including CFL and LED, and integrates seamlessly with other Maestro products (sold separately) for a consistent aesthetic.

This sensor simplifies light automation by turning lights on automatically upon entry and off upon exit. Users can program the lights to turn off after 1, 5, 15, or 30 minutes of no occupancy, or configure the sensor to operate in vacancy-only mode, where lights are manually turned on but automatically turn off when the room is unoccupied.



Figure 1: Lutron Maestro Motion Sensor Light Switch (MS-OPS2H-2-WH) product view.

Setup

Installation of the Lutron Maestro Motion Sensor Light Switch is designed to be straightforward, typically taking approximately 15 minutes. For detailed wiring instructions, please refer to the official Installation Manual provided by Lutron. A ground wire connection is required, but the switch is designed to work even if a neutral wire is not present in your home's wiring. This model is for single-pole installations only.
Before beginning installation, ensure the power to the circuit is turned off at the circuit breaker to prevent electrical shock. Follow all local electrical codes and regulations. If you are unsure about any step, consult a qualified electrician.

- **Power Disconnection:** Turn off power at the circuit breaker before handling any wiring.
- **Wiring:** Connect the switch according to the provided wiring diagram in the installation manual. The switch is designed for single-pole configurations and can be installed with or without a neutral wire, requiring only a ground wire.
- **Mounting:** Secure the switch into the wall box and attach the wall plate (sold separately).
- **Power Restoration:** Restore power at the circuit breaker and test the switch functionality.

For a comprehensive guide, please consult the Installation Manual (PDF).

Operating the Sensor Switch

The Maestro Motion Sensor Switch offers automated lighting control with customizable settings to suit various needs and environments.

Automatic Operation

The switch automatically turns lights on when motion is detected upon entering a room and turns them off when the room is vacated. This hands-free operation is particularly beneficial in high-traffic areas or when your hands are full.



Figure 2: Ideal for laundry rooms, providing hands-free lighting when carrying items.



Figure 3: Convenient for bathrooms, eliminating the need to touch the switch.



Figure 4: Useful in garages, allowing focus on tasks without manual light control.



Figure 5: Prevents lights from being left on in children's bedrooms.

Mode Settings

The switch supports two primary operating modes:

- **Occupancy Mode (Auto ON, Auto OFF):** Lights turn on automatically when you enter the room and turn off automatically when you leave. This is the default setting and is ideal for most applications.
- **Vacancy Mode (Manual ON, Auto OFF):** Lights must be turned on manually, but they will turn off automatically when the room is unoccupied. This mode is suitable for areas where you prefer manual control over initial light activation, such as bedrooms or TV rooms.

Programmable Delay

You can program the delay for lights to turn off after the room is vacated. Options include 1, 5, 15, or 30 minutes. This feature is particularly useful for controlling bathroom fans, allowing them to run for a set period to clear moisture.



Figure 6: Delayed Off feature for bathroom fans helps clear vapor and save paint.

Daylight Sensing

The motion sensor includes a daylight sensing feature that measures the ambient light level in the room. If sufficient natural light is present, the lights will not turn on, even if motion is detected, further contributing to energy savings.



Figure 7: The daylight sensing feature prevents lights from turning on unnecessarily when there's ample natural light.

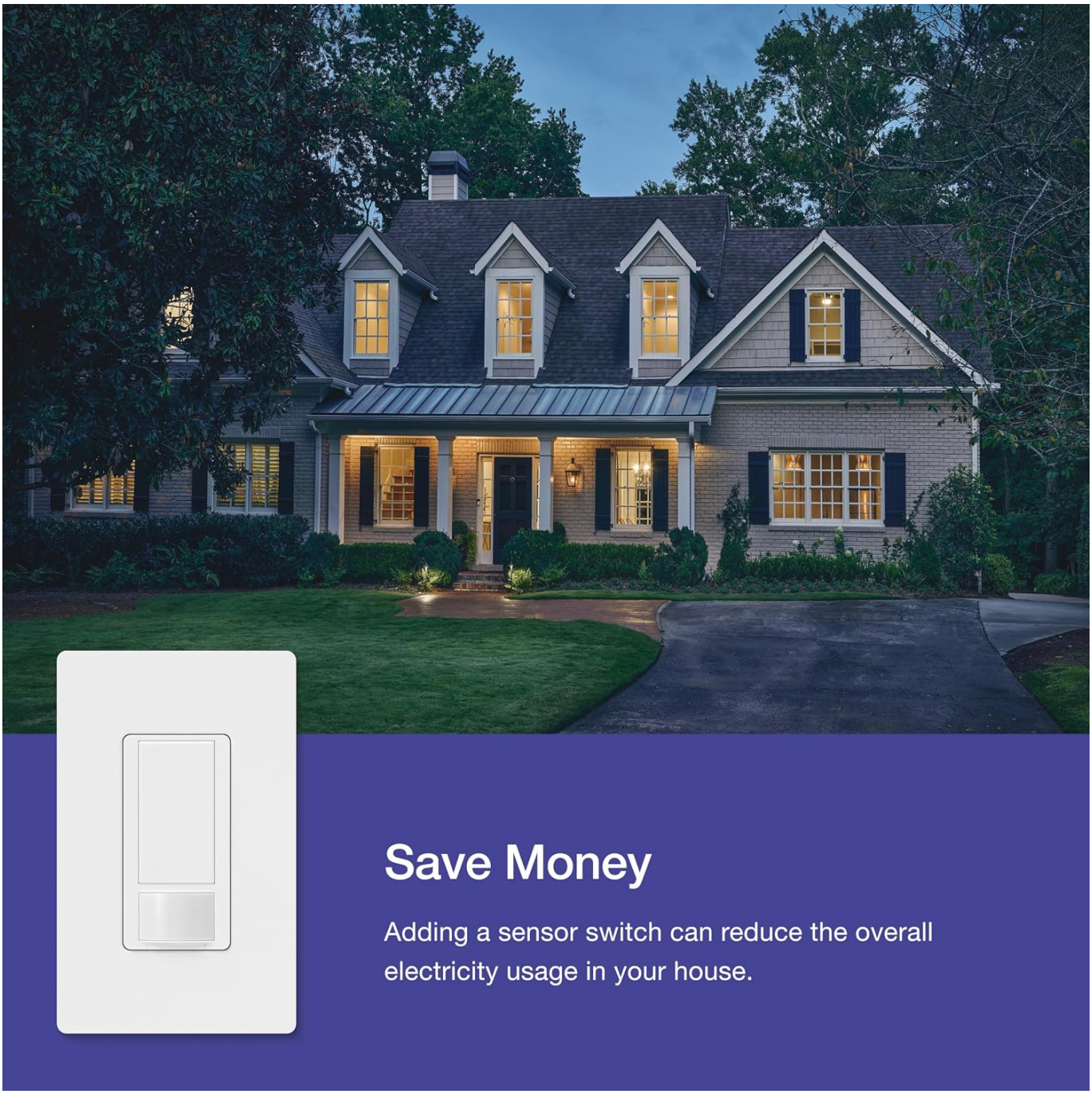


Figure 8: Adding a sensor switch can reduce overall electricity usage in your home.

Maintenance

To ensure optimal performance and longevity of your Lutron Maestro Motion Sensor Light Switch, follow these general maintenance guidelines:

- **Cleaning:** Gently wipe the surface of the switch with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- **Dust Accumulation:** Periodically check the sensor lens for dust or debris accumulation. A build-up of dust can impair the sensor's ability to detect motion accurately. Use a soft, dry cloth or a small brush to clean the lens.
- **Environmental Conditions:** Ensure the switch is not exposed to extreme temperatures or excessive moisture, which can affect its operation.
- **Regular Checks:** Occasionally test the motion detection and auto-off functions to confirm they are working as expected.

No user-serviceable parts are inside the switch. Do not attempt to disassemble or repair the device yourself. Refer to the

troubleshooting section or contact customer support if issues arise.

Troubleshooting

If you encounter issues with your Lutron Maestro Motion Sensor Light Switch, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Lights do not turn on automatically.	Switch is in Vacancy Mode; insufficient motion; daylight sensor active; power issue.	Ensure switch is in Occupancy Mode. Verify motion is within sensor range. Check if room is too bright. Confirm power to the switch.
Lights do not turn off automatically.	Continuous motion detected; incorrect delay setting; sensor obstruction.	Ensure no continuous motion. Adjust auto-off delay. Clear any obstructions from sensor.
Lights flicker or do not operate correctly.	Incompatible bulb type; wiring issue.	Verify bulb compatibility (CFL, LED, Incandescent, Halogen, ELV, MLV). Check wiring connections.
Sensor sensitivity is too low/high.	Default sensitivity setting.	Adjust sensor sensitivity using the internal programming buttons (refer to manual for specific steps).

If these steps do not resolve the issue, please refer to the detailed troubleshooting section in the User Guide (PDF) or contact Lutron customer support.

Specifications

Detailed technical specifications for the Lutron Maestro Motion Sensor Light Switch (MS-OPS2H-2-WH) are provided below:

Specifications

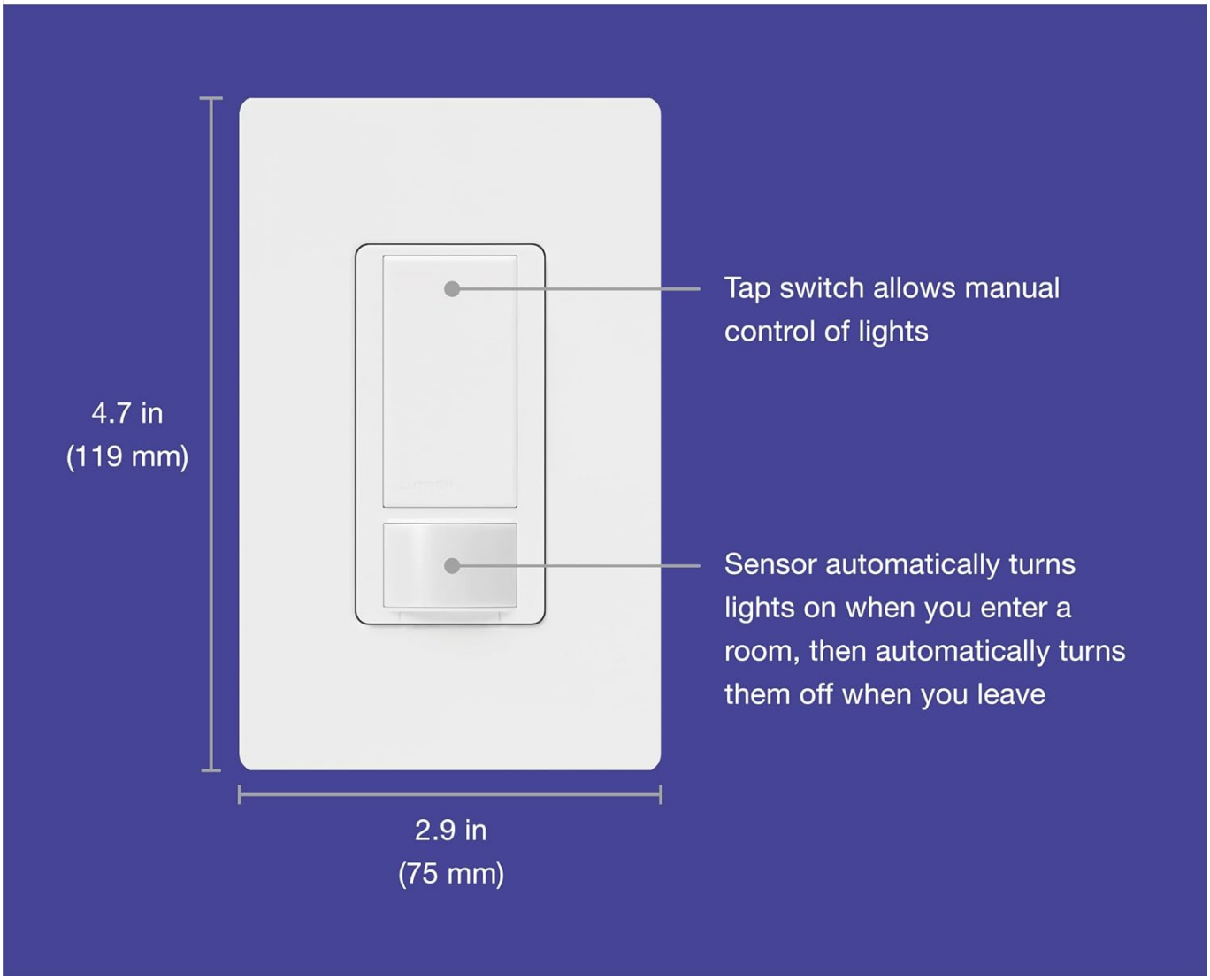


Figure 9: Dimensions and key features of the Maestro Motion Sensor Switch.

Feature	Detail
Model Number	MS-OPS2H-2-WH
Operation Mode	Auto On and Off Motion Sensor
Current Rating	2 Amps
Operating Voltage	120 Volts
Contact Type	Normally Closed
Connector Type	Hard Wired
Terminal	Spst
Item Dimensions (L x W x H)	1.6 x 1.75 x 4.25 inches

Feature	Detail
Circuit Type	1-way (Single Pole Only)
Actuator Type	Push Button
Contact Material	Brass
International Protection Rating	IP00
Number of Positions	3
Lower Temperature Rating	32 Degrees Fahrenheit
Upper Temperature Rating	104 Degrees Fahrenheit
Control Method	Touch
Connectivity Protocol	X-10
Color	White
Wattage	240 Watts
Unit Count	2.0 Count
Item Weight	5.6 ounces
Included Components	Includes (2) Maestro 2A motion sensors, instructions, and wire connectors
Batteries Required?	No

Warranty Information

Lutron provides a warranty for its products to ensure customer satisfaction and product reliability. The Maestro Motion Sensor Light Switch comes with a standard 5-year warranty. Upon product registration, the warranty is extended to 10 years.
For complete details regarding warranty coverage, terms, and conditions, please refer to the official Warranty (PDF) document.

Support

For additional assistance, detailed user instructions, or to explore other Lutron products, please utilize the following resources:

- **User Guide:** A comprehensive User Guide (PDF) is available for in-depth information on features, programming, and advanced settings.
- **Lutron Brand Store:** Visit the official Lutron Store for product information, accessories, and other lighting control solutions.
- **Customer Support:** Lutron offers 24/7 customer support to assist with any questions or issues you may encounter. Contact information can typically be found on the Lutron website or within the product packaging.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question