Lutron MS-OPS5MH-WH-2

Lutron Maestro Motion Sensor Light Switch Instruction Manual

Model: MS-OPS5MH-WH-2

Product Overview

The Lutron Maestro Occupancy Sensor Switch provides automatic light control, enhancing convenience and energy efficiency in your home. This wall-mounted switch automatically turns lights on when you enter a room and off after you leave, making it ideal for areas where hands are often full, such as garages, basements, laundry rooms, and closets. Featuring Advanced XCT sensing technology, it detects subtle motions up to 30 feet, covering up to 900 square feet, ensuring lights remain on when needed. Its patented ambient light detection activates lights only when necessary based on available daylight. The switch supports various bulb types including incandescent, halogen, electronic low voltage, magnetic low voltage, CFL, and LED bulbs, and can also operate ceiling or exhaust fans. It is compatible with both single-pole and 3-way applications and requires no neutral wire for installation.

Key Features:

- **Automatic Operation:** Lights turn on automatically upon entry and off upon exit.
- **Advanced Sensing:** XCT sensing technology detects fine motion up to 30 feet, covering 900 sq ft.
- **Daylight Detection:** Built-in ambient light sensor prevents lights from turning on if sufficient daylight is present.
- **Energy Saving:** Reduces electricity usage by ensuring lights are not left on unnecessarily.
- **Flexible Installation:** Works in single-pole and 3-way applications, no neutral wire required.
- **Broad Compatibility:** Supports incandescent, halogen, ELV, MLV, CFL, and LED bulbs, as well as fans up to 3 amps.
- **Customizable Settings:** Adjustable time-out delays (1, 5, 15, or 30 minutes) and selectable operating modes (Occupancy or Vacancy).

Package Contents



The package includes two Lutron Maestro Motion Sensor Light Switches. Wallplates are sold separately.

Setup and Installation

Installation of the Lutron Maestro Motion Sensor Light Switch is designed to be straightforward, typically taking around 15

minutes. It is crucial to follow all safety precautions and local electrical codes during installation. This switch is compatible with single-pole and 3-way wiring configurations and does not require a neutral wire, simplifying the process for many existing homes.

General Installation Steps:

1. **Safety First:** Always turn off power at the circuit breaker before beginning any electrical work. Verify power is off using a voltage tester.
2. **Remove Existing Switch:** Carefully remove the existing wall plate and switch from the electrical box. Disconnect the wires, noting their original connections.
3. **Wire the New Switch:** Connect the wires from the electrical box to the new Maestro sensor switch according to the provided wiring diagram in the product manual. The switch is designed to work without a neutral wire, connecting directly to the hot, load, and ground wires.
4. **Mount the Switch:** Secure the new switch into the electrical box and attach the wall plate (sold separately).
5. **Restore Power:** Turn the power back on at the circuit breaker.
6. **Test and Configure:** Test the switch's basic functionality. Refer to the Operating Instructions section for configuring modes and time-out settings.

For detailed wiring diagrams and specific instructions for single-pole or 3-way installations, please consult the full instruction manual provided with your product or available on the Lutron website. If you are unsure about any step, it is recommended to consult a qualified electrician.

Operating Instructions

The Lutron Maestro Motion Sensor Light Switch offers flexible operation modes and customizable settings to suit various needs and preferences.

Operating Modes:

- **Occupancy Mode (Auto ON, Auto OFF):** In this mode, the lights automatically turn on when motion is detected and turn off after a set delay when the room is unoccupied. This mode is ideal for high-traffic areas like bathrooms, laundry rooms, kitchens, and garages, providing hands-free convenience.



Occupancy Mode: Lights turn on automatically when you enter and off when you leave.

- **Vacancy Mode (Manual ON, Auto OFF):** In this mode, lights must be manually turned on, but they will automatically turn off after a set delay when no occupancy is detected. This is suitable for bedrooms or areas with pets, where you might prefer manual control over when the lights come on.



Vacancy Mode: Lights are turned on manually but turn off automatically.

Customizable Timeout:

The sensor switch allows you to program the delay before lights turn off after the room becomes unoccupied. You can set this delay to 1, 5, 15, or 30 minutes. This feature is particularly useful for areas like bathrooms, where you might want the fan to run for a longer period to clear moisture.



Customize the time delay for lights to turn off after the room is vacated.

Ambient Light Detection:

The Maestro sensor switch includes patented ambient light detection. This feature measures the amount of natural daylight in the room and prevents the lights from turning on if the room is already sufficiently bright, further contributing to energy savings.



The sensor detects ambient light, preventing unnecessary light activation during daylight hours.

Applications

The Lutron Maestro Motion Sensor Light Switch is versatile and can be used in various areas of your home to enhance convenience and energy efficiency.

- **Laundry Room:** Keep your hands free while carrying laundry. The lights will turn on automatically when you enter and off when you leave.



Ideal for laundry rooms, providing hands-free lighting.

- **Entryway:** No more fumbling for light switches when your hands are full with groceries or bags.



Convenient for entryways when your hands are full.

- **Bathroom:** Enjoy touch-free lighting, reducing the need to touch switches, especially in high-use areas.



Provides touch-free lighting in bathrooms.

- **Garage:** Keep your focus on projects or tasks without worrying about turning lights on or off.



Perfect for garages, assisting with projects and frequent entry/exit.

- **Children's Bedrooms/Playrooms:** Prevents lights from being left on for extended periods, saving energy and reducing frustration.



Helps save energy in children's rooms by automatically turning off lights.

Maintenance

The Lutron Maestro Motion Sensor Light Switch requires minimal maintenance. To ensure optimal performance and longevity:

- **Cleaning:** Periodically wipe the surface of the switch and sensor lens with a soft, damp cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish or internal components.
- **Obstruction Check:** Ensure that the sensor lens is not obstructed by furniture, decorations, or other objects that could block its view of the room, which might affect motion detection accuracy.
- **Firmware Updates (if applicable):** While this model is not a smart switch with app control, if future models or related products offer firmware updates, follow manufacturer guidelines for installation to ensure continued optimal performance and security.

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.	◦ Ensure the switch is in Occupancy Mode (Auto ON, Auto OFF). ◦ Check for obstructions blocking the sensor's view. ◦ Verify power to the switch at the circuit breaker. ◦ Adjust sensor sensitivity if needed (refer to detailed manual). ◦ Check if ambient light detection is preventing activation (if room is already bright).
Lights turn off too quickly or too slowly.	◦ Adjust the time-out delay setting (1, 5, 15, or 30 minutes). ◦ Ensure continuous motion is detected if the room is occupied.
Lights flicker or do not dim properly (if using a dimmer model).	◦ Verify bulb compatibility with the switch type (this model is a switch, not a dimmer). ◦ Ensure the total wattage of connected bulbs does not exceed the switch's maximum rating.
Switch is unresponsive.	◦ Turn off power at the circuit breaker for 30 seconds, then restore power (reset). ◦ Recheck all wiring connections for security.

For more complex issues or if troubleshooting steps do not resolve the problem, please refer to the comprehensive troubleshooting guide in the full product manual or contact Lutron customer support.

Specifications

Feature	Detail
Model Number	MS-OPS5MH-WH-2
Operation Mode	Automatic (Occupancy/Vacancy)
Current Rating	5 Amps
Operating Voltage	120 Volts
Circuit Type	Single-pole or 3-way
Wiring Requirement	No neutral wire required
Motion Sensor Range	Up to 30 feet
Coverage Area	Up to 900 square feet

Feature	Detail
Compatible Bulb Types	Incandescent, Halogen, Electronic Low Voltage (up to 250W), Magnetic Low Voltage (up to 200W), CFL/LED (up to 150W)
Fan Compatibility	Up to 3 Amps
Dimensions (L x W x H)	4.5 x 2.3 x 2.3 inches (119 x 75 mm for faceplate area)
Color	White
Material	Plastic
Operating Temperature	32°F to 104°F (0°C to 40°C)
UPC	784276805902

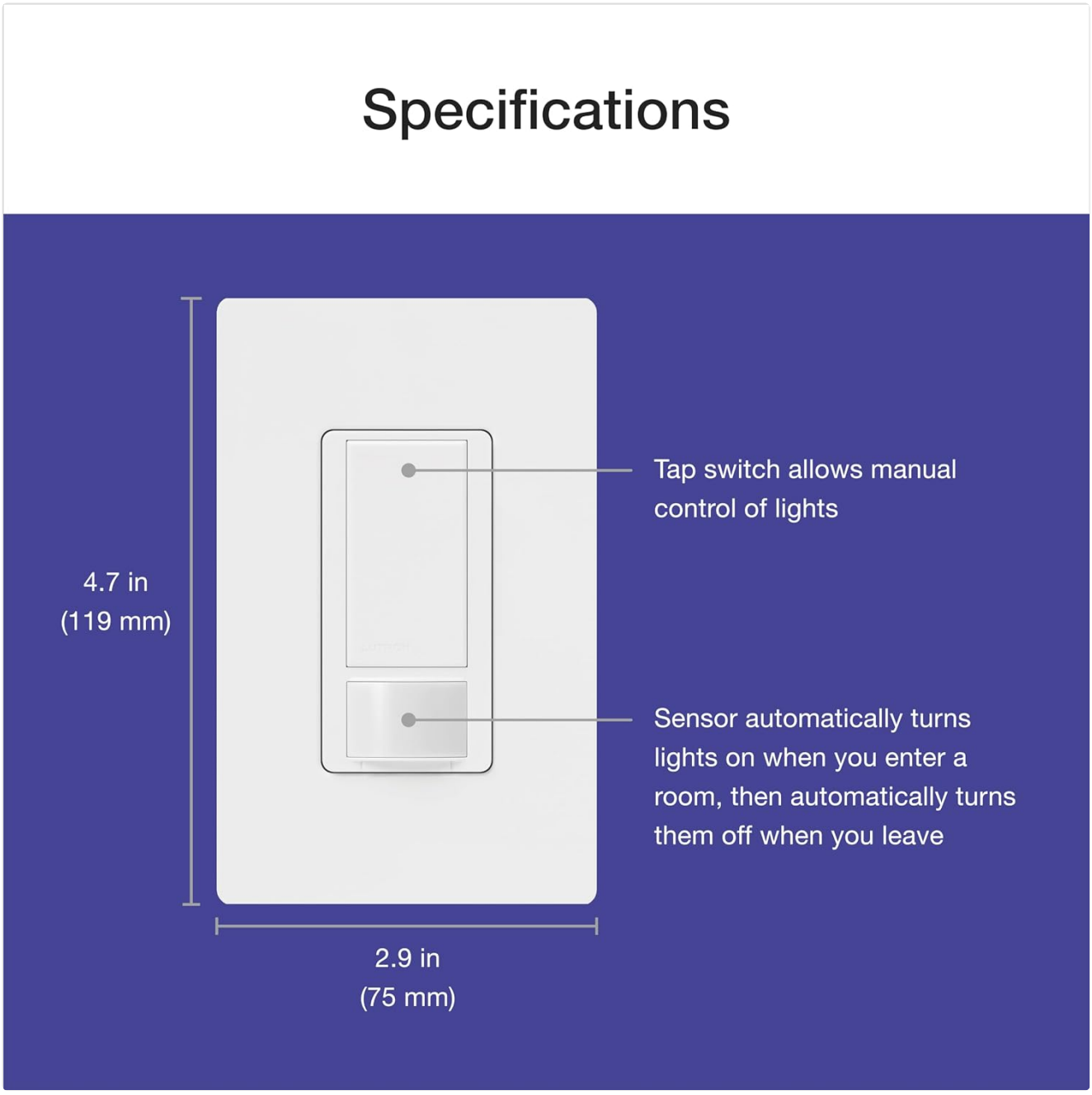


Physical dimensions of the Maestro Motion Sensor Light Switch.

Warranty and Support

Lutron stands behind the quality of its products. The Maestro Motion Sensor Light Switch comes with a standard warranty, which can be extended upon product registration. Lutron has over 60 years of innovation in lighting control, offering exceptional quality and design.

- **Warranty Information:** A 5-year warranty is typically included, with an option to extend to 10 years upon product registration. For full details, please refer to the official warranty document: Lutron Warranty (PDF).



Lutron offers a 10-year warranty with product registration.

- **Customer Support:** For technical assistance, installation questions, or warranty claims, please contact Lutron customer support. Their team is available to provide guidance and ensure your product functions correctly.
- **Online Resources:** Visit the official Lutron website or their Amazon Brand Store for additional product information, FAQs, and support resources: Lutron Amazon Store.

© 2024 Lutron Electronics Co., Inc. All rights reserved.

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