Lutron MS-OPS2-LA

Lutron Maestro Motion Sensor Light Switch

MODEL: MS-OPS2-LA

User Manual

1. Introduction

The Lutron Maestro Motion Sensor Light Switch, model MS-OPS2-LA, provides automatic lighting control for various spaces such as bathrooms, garages, laundry rooms, and closets. This device enhances convenience and promotes energy savings by automatically turning lights on when motion is detected and off after a period of inactivity. It is compatible with all bulb types, including CFL and LED, and is designed for single-pole applications without requiring a neutral wire.

The sensor incorporates Advanced XCT sensing technology to detect fine motions, preventing lights from turning off inadvertently when a room is occupied. It also features patented ambient light detection, ensuring lights only activate when natural daylight is insufficient.

Figure 1: Lutron Maestro Motion Sensor Light Switch (MS-OPS2-LA) in Light Almond.

2. Safety Information

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.

- Install in accordance with all national and local electrical codes.
- Do not use with loads exceeding the specified ratings.
- This product is for indoor use only.
- Ensure all wire connections are secure.

3. Package Contents

The package for the Lutron Maestro Motion Sensor Light Switch (MS-OPS2-LA) typically includes:

- One (1) Lutron Maestro Motion Sensor Switch (MS-OPS2-LA)
- Wiring hardware (e.g., wire connectors)
- Instruction sheet

Note: A coordinating wallplate is sold separately and is not included with the sensor switch.

4. Setup and Installation

Installation of the Maestro Motion Sensor Switch is designed to be straightforward, typically taking around 15 minutes. This switch is for single-pole applications only and does not require a neutral wire, utilizing the ground wire for installation if no neutral is available.

4.1. Tools Required

- Flathead screwdriver

- Phillips head screwdriver
- Wire strippers/cutters
- Voltage tester

4.2. Installation Steps

1. **Turn Off Power:** Locate the circuit breaker or fuse that controls the light switch you are replacing. Turn off the power completely to avoid electrical shock. Verify power is off using a voltage tester.
2. **Remove Existing Switch:** Unscrew and carefully remove the existing wallplate and light switch from the wall box. Disconnect the wires from the old switch.
3. **Identify Wires:** In a single-pole application, you will typically find two wires connected to the switch (load and line) and a bare copper or green ground wire. This Maestro switch does not require a neutral wire.
4. **Wire the Maestro Switch:**
    - Connect the **green ground wire** from the wall box to the green wire on the Maestro switch.
    - Connect the **line wire** (incoming power) from the wall box to one of the black wires on the Maestro switch.
    - Connect the **load wire** (to the light fixture) from the wall box to the other black wire on the Maestro switch.
    - Secure all connections with wire connectors.
5. **Mount the Switch:** Carefully fold the wires into the wall box, ensuring they are not pinched. Mount the Maestro switch into the wall box using the provided screws.
6. **Install Wallplate:** Attach the coordinating wallplate (sold separately) over the switch.
7. **Restore Power:** Turn the power back on at the circuit breaker.

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Video 1: Example of a motion sensor switch installation. This video demonstrates a general installation process for a motion sensor switch, which may be helpful as a visual aid for wiring connections.

5. Operating Instructions

The Lutron Maestro Motion Sensor Light Switch offers both automatic and manual control options.

5.1. Automatic Operation (Occupancy Mode)

In Occupancy Mode (default setting), the lights will automatically turn ON when you enter the room and automatically turn OFF after a set time delay once the room is vacant. The sensor's advanced technology detects motion up to 30 feet away, covering up to 900 square feet.

5.2. Manual Control

You can manually turn the lights ON or OFF at any time by pressing the main button on the switch. If the lights are manually turned OFF, they will remain off until motion is detected again or until manually turned ON.

5.3. Smart Light Detection

The switch senses ambient daylight in the room. If sufficient natural light is present, the lights will remain off even if motion is detected, further conserving energy. The sensor learns your preferred light levels over time to optimize this function.

6. Programming Modes

The Maestro sensor switch can be configured for different operational modes and time delays to suit your needs.

6.1. Occupancy Mode (Auto ON, Auto OFF)

This is the default setting. Lights turn on automatically when motion is detected and turn off automatically after the set time delay when the room is vacant.

6.2. Vacancy Mode (Manual ON, Auto OFF)

In Vacancy Mode, you manually turn the lights ON when entering the room. The sensor will then automatically turn the lights OFF after the set time delay when the room becomes vacant. This mode is often preferred for bedrooms or rooms with pets to prevent unintended light activation.

6.3. Time Delay Settings

The time delay before lights turn off after no motion is detected can be programmed. Common settings include 1, 5, 15, or 30 minutes. Refer to the detailed programming instructions included with your product for specific steps on adjusting these settings.

Typically, programming involves a sequence of button presses and holds on the switch. For example, to change the time delay, you might press and hold the main button until an indicator light blinks, then press it a certain number of times to select the desired delay.

7. Troubleshooting

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

- **Lights do not turn ON automatically:**
  - Ensure power is restored at the circuit breaker.
  - Check wiring connections for security.
  - Verify the switch is in Occupancy Mode (Auto ON).
  - Confirm the sensor lens is not obstructed.
  - Check if there is too much ambient daylight, preventing activation.
- **Lights do not turn OFF automatically:**
  - Ensure the time delay setting is appropriate (e.g., not set to 30 minutes if you expect a shorter delay).
  - Check for continuous motion within the sensor's range, including subtle movements or drafts that might trigger it.
  - Verify the switch is not stuck in a manual ON state.
- **Sensor sensitivity issues:**
  - Adjust the sensor's sensitivity settings if available (refer to product-specific programming instructions).
  - Ensure the sensor is not positioned where it can detect motion outside the intended area (e.g., through a doorway).

For further assistance, refer to the detailed troubleshooting guide provided with your product or contact Lutron customer support.

8. Specifications

Feature	Specification
Model Number	MS-OPS2-LA
Operation Mode	Automatically, Off
Current Rating	2 Amps
Operating Voltage	120 Volts
Circuit Type	1-way (Single-Pole)
Actuator Type	Sensor
Compatibility	150W CFL/LED, 250W Incandescent/Halogen/Electronic Low Voltage, 200W Magnetic Low Voltage, 2A Ballasts
Neutral Wire Required	No
Dimensions (L x W x H)	1.75 x 2 x 4.2 inches
Item Weight	3.2 ounces
Color	Light Almond
Operating Temperature	32°F to 104°F (0°C to 40°C)

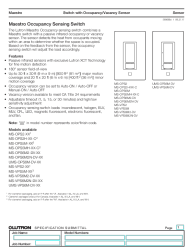
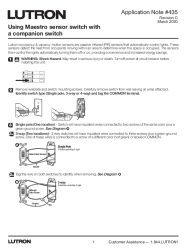
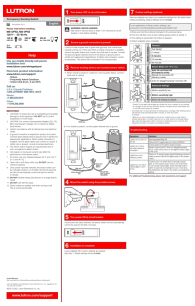
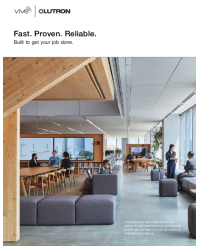
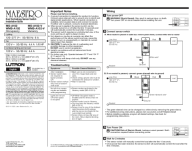
9. Warranty and Support

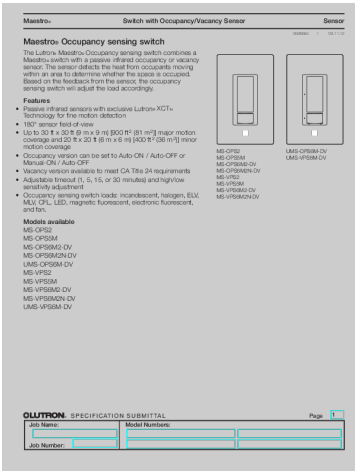
Lutron products are known for their quality and reliability. For specific warranty information regarding your Maestro Motion Sensor Light Switch, please refer to the warranty card included with your product or visit the official Lutron website.

Lutron offers customer support to assist with installation, programming, and troubleshooting. You can typically find contact information for support on the Lutron website or within the product packaging.

For additional resources and product information, visit theLutron Store on Amazon.

Related Documents - MS-OPS2-LA

	[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 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 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 Dual Technology Sensor Switch Installation Guide] Comprehensive installation guide for the Lutron Maestro Dual Technology Sensor Switch (MS-A102, WMS-A102, MS-A102-V, WMS-A102-V). Covers wiring, setup, custom settings, troubleshooting, and important safety notes for occupancy and vacancy lighting controls.



[pdf] User Manual Specifications

Lutron Maestro MS OPS2 LA Spec Sheet lutron maestro ms ops2 la 027557982689 occupancy sensor spec sheet passive infrared pir lighting light almond auto on off led cfl energy saving 1000Bulbs Occupancy sensing switch Vacancy* Manual ON Auto OFF Low Light Lights turn only if needed ambient is below threshold * There a 15 second grace period that begins when the lights are automatically turned during which will back in response to motion This provided as safety msops2iv specs 1000bulbs Maestro Switch with Occupancy/Vacancy Sensor 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 i...

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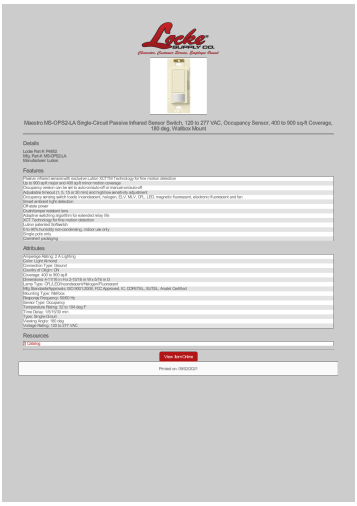

[pdf] Dimension Guide

Maestro **MS-OPS2-LA** Single-Circuit Passive Infrared Sensor Switch, 120 to 277 VAC, Occupancy Sensor, 400 to 900 sq-ft Coverage, 180 deg, Wallbox Mount Details Locke Part #: P4852 Mfg. Part #: **MS-OPS2-LA** Manufacturer: Lutron Features Passive infrared sensorswith exclusive Lutron XCTTM Technology for f...

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Revere Electric LED Lighting Guide - Comprehensive Product Catalog

Explore Revere Electric's extensive range of LED lighting solutions, including indoor, outdoor, industrial, and emergency lighting. Find product specifications, part numbers, and expert guidance for your lighting projects.

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