# Lutron Motion Sensor Switch Manual: MS-OPS2 Instruction Guide



The Lutron MS-OPS2 Occupancy Sensing Switch is a reliable and convenient way to control lighting in your home or office. This motion sensor switch manual provides detailed instructions for proper installation and use of the device. It is important to read the manual carefully before installing the switch to ensure safety and proper functionality. The manual includes a helpful mobile-friendly self-paced installation tool, as well as contact information for Lutron's customer support team. The device is designed for indoor use only and should be installed in accordance with all national and local electrical codes. The manual also includes important cautions, such as not using the switch to control receptacles or motor loads, and not exceeding twenty devices on a single branch circuit. Troubleshooting tips are also provided, along with information on custom settings for the device. With this comprehensive manual, users can easily install and use the Lutron MS-OPS2 Occupancy Sensing Switch to improve their lighting control experience.

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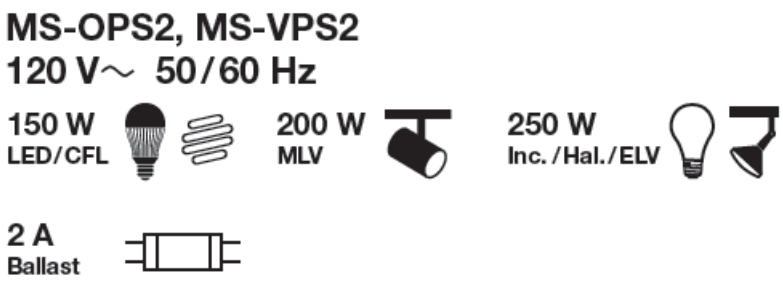
# MS-OPS2 Occupancy Sensing Switch

Instruction Manual

**Please read before installing.**




## Help

Use our mobile friendly self-paced installation tool:
**www.lutron.com/wiringwizard**
Find more product information: **www.lutron.com/support**

– Videos
– Frequently Asked Questions
– Online Chat (8 am – 5 pm EST)

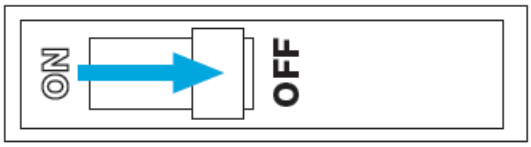
**Call us:**
U.S.A. | Canada | Caribbean
1.844.LUTRON1 (588.7661) (24/7)
**Mexico**
+1.888.235.2910
**Others**

+1.610.282.3800

## IMPORTANT

1. **CAUTION:** To reduce the risk of overheating and possible damage to other equipment, DO NOT use to control receptacles or motor loads.
2. **CAUTION:** For control of permanently installed LED, CFL, MLV, incandescent, halogen, ELV or electronic ballast lamp fixtures.
3. Install in accordance with all national and local electrical codes.
4. A ground connection is required for product to function. Connect green-sleeved wire to ground only in retrofit and replacement applications. When neutral connection is available, remove green sleeve and connect to neutral. If neither wire is present, consult a licensed electrician.
5. The sensor switch requires an unobstructed view of room occupants to detect motion.
6. Hot objects or moving air currents can affect the performance of the sensor switch.
7. For indoor use only. Operate between 32 °F and 104 °F (0 °C and 40 °C).
8. Clean with a soft damp cloth only. DO NOT use any chemical cleaners.
9. Once power has been restored, the sensor switch can be manually turned on or off within the first 30 seconds but will not automatically control the load for the first
   2 minutes.
10. DO NOT exceed twenty (20) devices on a single branch circuit.
11. DO NOT use with fan loads.
12. Device makes an audible click when turning on/off.
    This is normal functionality.

### 1. Turn power OFF at circuit breaker



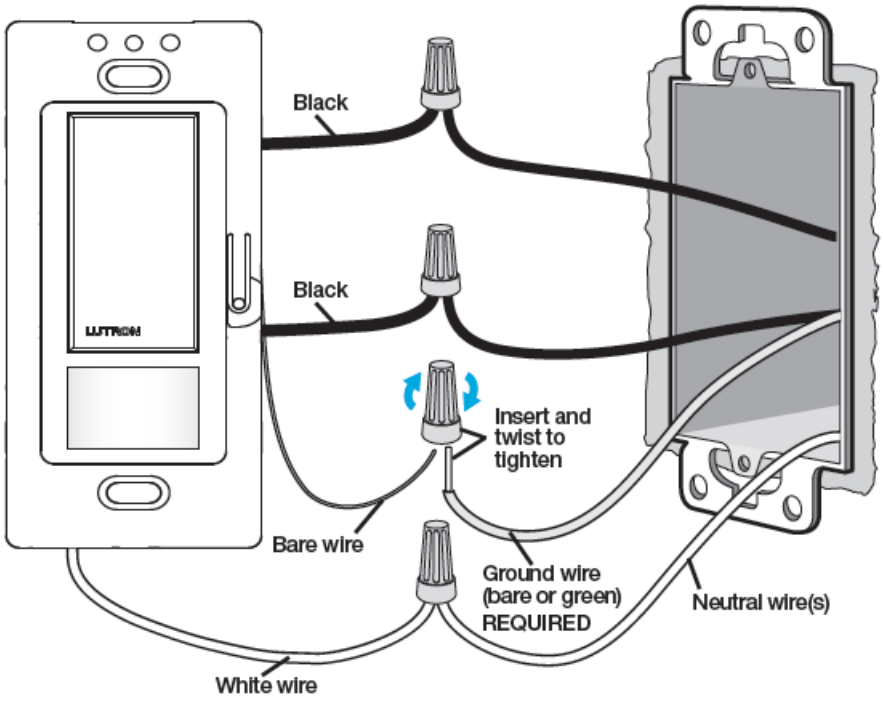

**WARNING: SHOCK HAZARD.**
May result in serious injury or death. Turn off power at circuit breaker or fuse before installing

### 2. Ensure a ground connection is present

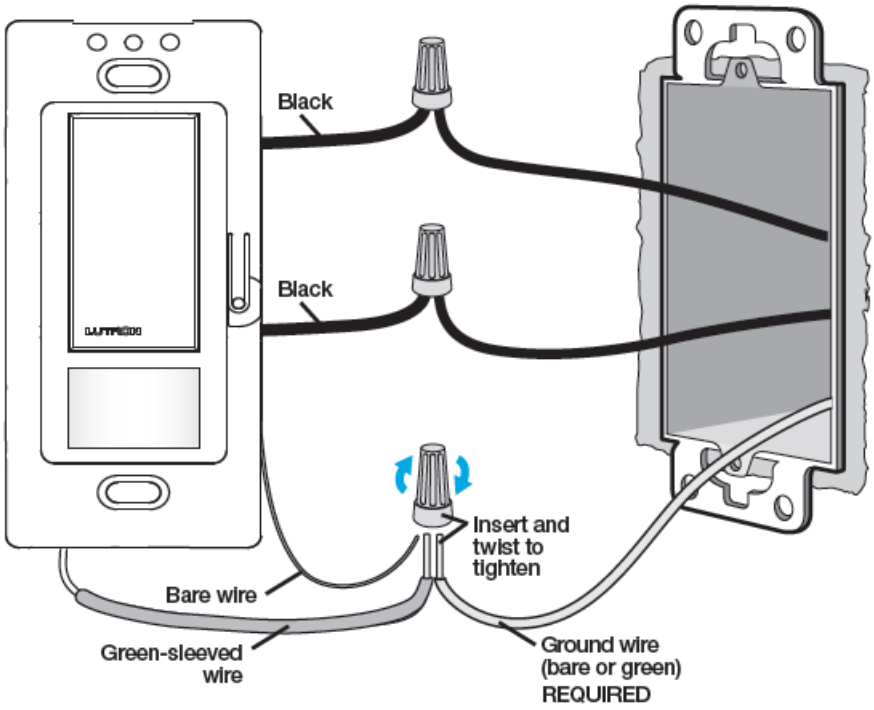
Look for a bare copper wire or green wire (ground), and a white wire (neutral) coming out of the wall. When a neutral connection is available, remove the green sleeve and connect the white wire to neutral. Connect the bare and green-sleeved wire from the device to ground (only in retrofit and replacement applications). If neither wire is present, consult an electrician. This device will not function if it is not grounded.

### 3. Remove existing device and connect sensor

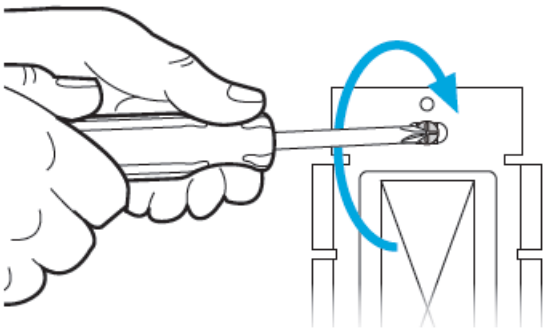
A. When neutral is present in outlet box: remove green sleeve, connect white wire to neutral.




B. If no neutral is present, connect green-sleeved wire to ground.

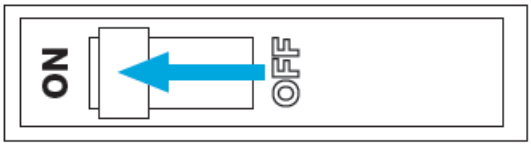



**4. Mount the switch using the provided screws**



### 5. Turn power ON at circuit breaker

Once power has been restored, the sensor switch will not automatically control the load for the first 2 minutes.




### 6. Installation is complete

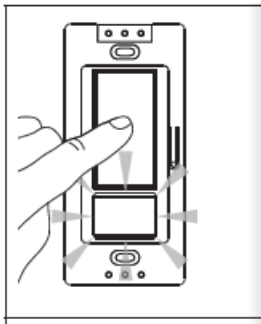
Leave wallplate off if custom settings are desired.
See step 7; default settings shown in bold.

### 7. Custom settings (optional)

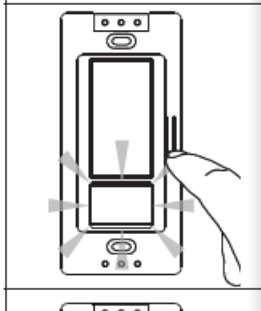
Remove wallplate and select your preferred settings from the table below before proceeding; default settings shown in bold.

For an explanation of these custom settings, see **www.lutron.com/TechnicalDocumentLibrary/048461.pdf**

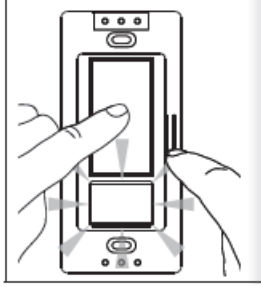
1. " Timeout" is the delay until the lights go off after the room is vacated. if you manually turn the light off and re-enter before the timeout, the lights will not automatically turn on until the timeout period is complete.
2. Short (less than 15-second) timeout for testing sensor coverage. After entering, device will exit test mode automatically after 5 minutes, or when any button is pressed.
3. Lights turn on only if natural light in room is low. If switch turns on when there is enough natural light, or if switch does not turn on when there is not enough natural light, press the large button within 5 seconds of entering the room. Over time, this interaction will "teach" the switch your preferred setting.
   A) Press and hold the button(s) indicated in the pictures below.
   B) The lens will flash once at each setting (always starts at setting 1).
   C) The setting is saved after the button is released.
   D) Attach wallplate when complete.



| Number of flashes | Timeout[1] |
|---|---|
| 1 | Test Mode[2] |
| 2 | 1 minute |
| 3 | **5 minutes** |
| 4 | 15 minutes |
| 5 | 30 minutes |



| Number of flashes | Sensor Mode (MS-OPS only) |
|---|---|
| 1 | **Auto-On and Auto-Off (Occupancy mode)** |
| 2 | Manual-On and Auto-Off (Vacancy mode) |
| 3 | Auto-On daylight sensing[3] and Auto-Off |



| Number of flashes | Advanced Settings |
|---|---|
| 1 | Motion sensitivity low |
| 2 | **Motion sensitivity high** |
| 3 | Return all settings to default |

1. " Timeout" is the delay until the lights go off after the room is vacated. if you manually turn the light off and re-enter before the timeout, the lights will not automatically turn on until the timeout period is complete.
2. Short (less than 15-second) timeout for testing sensor coverage. After entering, device will exit test mode automatically after 5 minutes, or when any button is pressed.
3. Lights turn on only if natural light in room is low. If switch turns on when there is enough natural light, or if switch does not turn on when there is not enough natural light, press the large button within 5 seconds of entering the room. Over time, this interaction will "teach" the switch your preferred setting.

## Troubleshooting

| Symptom | Solution |
|---|---|
| Lights do not turn on (or off) | See Important Note #4. |
| | Call our 24/7 support line at 1.844.LUTRON1. |
| Lights do not turn on when space is occupied | Ensure sensor is not set to vacancy mode. |
| | Sensor may be set to “Auto-on daylight sensing” (ALD), which will not turn on the lights if there is light in the room. |
| Lights turn on in vacancy mode | There is a 15 second grace period following a timeout where a sensor will turn the lights back on if it senses motion. |
| Lights turn on only if natural light in room is low | If switch turns on when there is enough natural light, or if the switch does not turn on when there is not enough natural light, press the large button within 5 seconds of entering the room. Over time, this interaction will “teach” the switch your preferred setting. |

For additional Troubleshooting, please visit **www.lutron.com/support**

**SPECIFICATION**

| Product Specifications | Details |
| --- | --- |
| Product Name | Lutron MS-OPS2 Occupancy Sensing Switch |
| Intended Use | Indoor use only |
| Controlled Devices | Permanently installed LED, CFL, MLV, incandescent, h alogen, ELV or electronic ballast lamp fixtures |
| Maximum Devices on a Single Branch Circuit | 20 |
| Caution | DO NOT use to control receptacles or motor loads |
| Installation | In accordance with all national and local electrical codes |
| Sensor Switch | Requires an unobstructed view of room occupants to d etect motion |
| Cleaning | With a soft damp cloth only. DO NOT use any chemical cleaners |
| Manual Control | Can be manually turned on or off within the first 30 sec onds after power has been restored, but will not autom atically control the load for the first 2 minutes |
| Troubleshooting | Visit **www.lutron.com/support** for additional troubles hooting |

## FAQS

**What should I do if I encounter problems with the switch?**

Visit **www.lutron.com/support** for additional troubleshooting tips.

**How do I customize the settings for the sensor switch?**

Remove the wallplate and press and hold the button(s) indicated in the pictures provided in the manual. The lens will flash once at each setting and the setting is saved after the button is released.

**What should I do if hot objects or moving air currents affect the performance of the sensor switch?**

Try repositioning the switch to ensure an unobstructed view of room occupants.

**Can I use the switch with fan loads?**

No, the switch should not be used with fan loads.

**Can I manually turn on or off the switch after power has been restored?**

Yes, the switch can be manually turned on or off within the first 30 seconds after power has been restored, but it will not automatically control the load for the first 2 minutes.

**What should I do if there is no neutral wire present in the outlet box?**

Connect the green-sleeved wire from the device to ground. If neither wire is present, consult an electrician.

**How many devices can be connected to a single branch circuit?**

Do not exceed twenty (20) devices on a single branch circuit.

**Can the switch be used to control receptacles or motor loads?**

No, using the switch to control receptacles or motor loads may cause overheating and possible damage to other equipment.

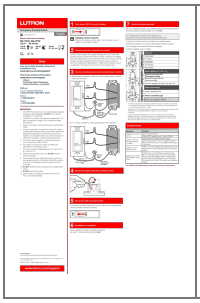
**What is the temperature range for operating the switch?**

The switch should be operated between 32 °F and 104 °F (0 °C and 40 °C).

**What type of fixtures can the Lutron MS-OPS2 Occupancy Sensing Switch control?**

The switch can control permanently installed LED, CFL, MLV, incandescent, halogen, ELV or electronic ballast lamp fixtures.

## Documents / Resources

| | |
|---|---|
|  | LUTRON MS-OPS2 Occupancy Sensing Switch [pdf] Instruction Manual<br>MS-OPS2, MS-VPS2, MS-OPS2 Occupancy Sensing Switch, Occupancy Sensing Switch |

## References

- Lutron Support Center \| Lutron
- How to Install a Dimmer Switch \| Dimmer Switch Wiring \| Lutron Web Tools