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## Leviton DOS02-LW

# Leviton DOS02-LW Motion Sensor Light Switch Instruction Manual

Model: DOS02-LW

## INTRODUCTION

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The Leviton DOS02-LW Motion Sensor Light Switch is designed to automatically turn lights on and off based on motion and occupancy. This single-pole device offers convenient hands-free lighting control and can be installed with or without a neutral wire, requiring a ground connection. It is suitable for various applications such as pantries, closets, laundry rooms, and basements, helping to conserve energy by ensuring lights are not left on unintentionally.

## FEATURES

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- **Automatic Operation:** Turns lights on/off based on motion, providing a 180° field-of-view and 900 sq. ft. of coverage.
- **Easy Installation:** Slim profile fits most wallboxes.
- **Flexible Wiring:** Can be installed with or without a neutral wire; a ground connection is required.
- **Versatile Modes:** Can be set for occupancy (auto-on/auto-off) or vacancy (manual-on/auto-off) switching.
- **Load Compatibility:** Supports 150W LED/CFL, 250W Incandescent/Halogen, 200VA Magnetic Low Voltage, 250VA Electronic Low Voltage, 2A Resistive loads.
- **Customizable Appearance:** Easily change the color using DOSKT faceplates (sold separately).
- **Daylight Harvesting:** Lights will not turn on if ample daylight is present in the space.

## WHAT'S IN THE BOX

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- One Leviton Motion Sensor Switch DOS02-LW, White

## SAFETY INFORMATION

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**WARNING: TO AVOID FIRE, SHOCK, OR DEATH, ALWAYS TURN OFF POWER AT THE CIRCUIT BREAKER OR FUSE AND TEST THAT POWER IS OFF BEFORE WIRING.**

If you are unsure about any part of the instructions or are not comfortable or familiar with electrical wiring, contact a licensed electrician. This device is designed for use with Copper or Copper-Clad wire only. Do not mount near a

heat source, in drafty areas, or in motion-heavy areas where unintended motion may trigger the sensor.

## TOOLS REQUIRED FOR INSTALLATION

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- Flathead Screwdriver
- Phillips Head Screwdriver
- Electrician's Pliers
- Wire Stripper
- Electrical Tape
- Handheld Voltage Tester
- Properly Sized Wire Connectors

## INSTALLATION

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Installation typically takes approximately 15 minutes. Always ensure power is off at the circuit breaker before beginning. The device replaces an existing single-pole switch.

### 1. Prepare for Installation

1. Turn off power at the circuit breaker or fuse for the switch you are replacing.
2. Remove the existing switch plate and unscrew the old device from the wall box.
3. Carefully pull the device out until you can clearly see the wires.
4. Use a voltage tester to confirm no power is present in the box.
5. Disconnect all wiring from the old device and remove it.
6. Straighten and separate each wire in the wall box. Ensure no exposed metal ends are touching.

### 2. Identify Wiring Configuration

The Leviton DOS02-LW can be wired with or without a neutral wire. Identify if a neutral wire (typically white) is present in your wall box. The neutral wire may be capped off with a wire connector.



Image: Wiring diagram for the Leviton motion sensor switch, illustrating the various wire connections.

### 3. Wiring the Device

The device features pre-stripped lead wires. Gently pull on the insulation to remove the pre-stripped section. Twist the exposed stranded copper wire in a clockwise direction to prepare it for termination.

Video not supported. Please refer to the text instructions.

Video: Official Leviton installation guide for Decora Occupancy and Vacancy Sensors, including models DOS02, DVS02, DOS05, and DVS05. This video provides detailed visual instructions for wiring and setup.

#### Wiring without a Neutral Wire:

- Connect the green and yellow ground lead wire from the device, along with the green sleeve ground wire, to the ground wire in the wall box using a properly sized wire connector.
- Connect the black lead wires from the device to the black line and load wires in the wall box. The line and load wires can be wired interchangeably.

- For DOS05 or DVS05 models (not DOS02-LW), cap off the red/yellow wire with a wire connector as it is only used for 3-way connections.

### Wiring with a Neutral Wire:

- Remove the green sleeve from the white wire on the device. Connect this white wire to the white neutral wire(s) in the wall box using a properly sized wire connector.
- Connect the green and yellow ground lead wire from the device to the ground wire in the wall box using a properly sized wire connector.
- Connect the black lead wires from the device to the black line and load wires in the wall box. The line and load wires can be wired interchangeably.
- For DOS05 or DVS05 models (not DOS02-LW), cap off the red/yellow wire with a wire connector as it is only used for 3-way connections.

Video not supported. This video demonstrates the Green Flex Sleeve feature for flexible wiring options.

Video: Leviton's Green Flex Sleeve feature, explaining its use for wiring with or without a neutral wire.

## 4. Mounting the Device

1. Gently bend the wires and push them into the wall box.
2. Screw the sensor into the wall box.
3. Install the wall plate (sold separately).

## OPERATION

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After installation and restoring power, the sensor will undergo a warm-up period (typically 10-20 seconds). For DOS02-LW, lights will automatically turn on with the first motion detected after the warm-up period. You can also manually press the push pad to turn lights on or off.

# Single Pole

Controls light(s) from one location



Image: The Leviton DOS02-LW Motion Sensor Light Switch demonstrating single pole control of a light.

## Application Examples

Useful in areas you may enter and exit  
with hands full or have difficulty  
reaching a light switch



MUDROOMS



CLOSETS



GARAGES

Image: Visual examples of ideal locations for the motion sensor switch, including mudrooms, closets, and garages.

The sensor provides hands-free lighting, which is particularly useful in areas where you may enter with your hands full or where lights are often left on unintentionally.



Image: A graphic highlighting the 'Hands-Free Lighting' benefit of the motion sensor switch.

## **PROGRAMMING AND SETTINGS**

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The default settings for the sensor are a 10-minute time-out timer, medium range field-of-view, and medium ambient light setting. These settings can be adjusted to suit your specific needs.



Image: The motion sensor switch being pressed to change settings, indicating no tools are required for adjustment.

Refer to the detailed product instruction sheet for specific steps on how to change the time-out timer, sensitivity/coverage, and ambient light settings.

## TROUBLESHOOTING

If the lights do not operate as expected after installation, refer to the troubleshooting section in the full instruction sheet. Common issues and adjustments include:

- **Lights do not operate with push pad and RED indicator does not blink when motion is present:** Verify wiring connections to the sensor.
- **Lights do not switch ON when motion is detected (DOS02):** Motion may be beyond sensing range (move closer to switch). Adjust the light level lower (Option 3, 2, 1 or disable). If the RED light is blinking, it indicates motion. If it is blinking and the load is not turning ON, it could be due to ambient light OR check to make sure that the OCC/VAC switch is in OCC position.
- **Lights always stay ON:** Check time delay settings and compare to how long the lights stay ON. Make sure no motion occurs in the coverage area for the time selected by covering the lens. Check that the switch is not

installed near a heat source (like stove, lights, heat vents) or detecting motion from an adjacent area (like hallway traffic) and if it is, relocate it.

- **Lights do not turn ON (DVS02):** Make sure that control is installed correctly. Make sure the power is ON. Check to make sure the light bulb is functional.

## SPECIFICATIONS

Specification	Value
Operation Mode	Auto or manual
Current Rating	2 Amps
Operating Voltage	120 Volts
Contact Type	Normally Open
Connector Type	Crimp
Terminal	Wire Leads
Item Dimensions (L x W x H)	1.38 x 1.73 x 4.13 inches
Circuit Type	Single Pole
Actuator Type	Rocker Switch
Contact Material	Brass
International Protection Rating	IP00
Number of Positions	2
Lower Temperature Rating	70 Degrees Fahrenheit
Upper Temperature Rating	100 Degrees Fahrenheit
Controller Type	Motion Sensor Switch
Control Method	Sensor
Connectivity Protocol	Infrared
Color	White
Wattage	250 watts
Item Weight	0.01 ounces

## MAINTENANCE

To clean the device, wipe 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.

## WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation included with your product or visit the official Leviton website. Keep your purchase receipt for warranty claims.