LUTRON MAESTRO Dual Circuit Occupancy Sensing Switch User Guide

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Two circuits, each rated at:

Lighting
(incandescent, halogen, CFL, LED, ELV, MLV, electronic fluorescent, magnetic fluorescent)

- 120-277 V~ 50/60 Hz 6 A

Fan

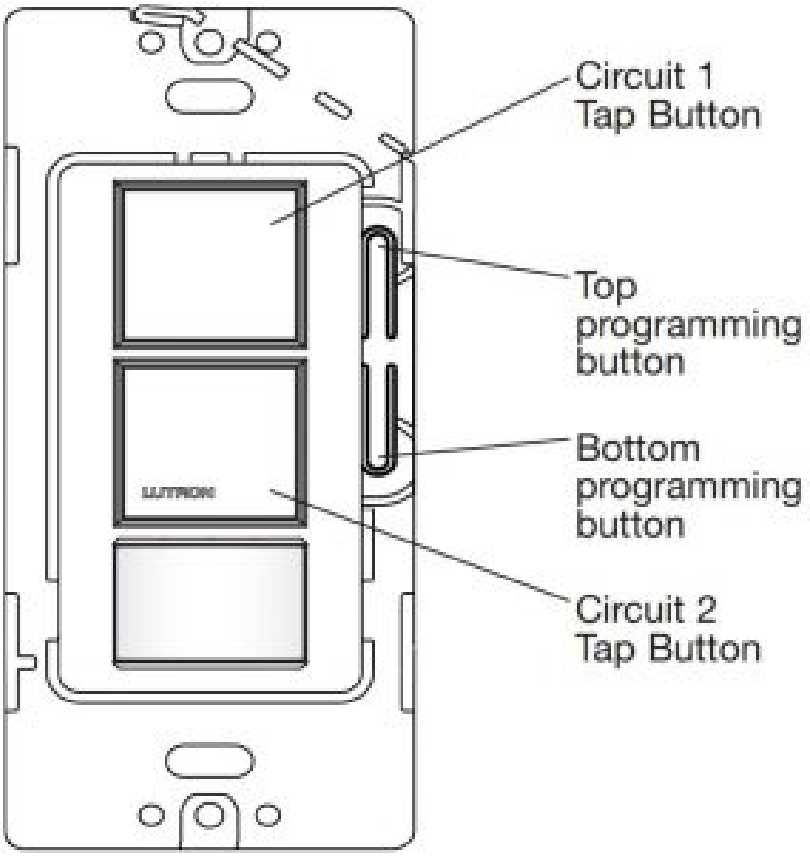
- 120 V~ 50/60 Hz 4.4 A 1/6 HP

Combined lighting and fan load

- 120 V~ 50/60 Hz 4.4 A

Contents

Product Overview



Major motion coverage:

- 30 ft × 30 ft (9 m × 9 m) [900 ft2 (81 m2)]

Minor motion coverage:

- 20 ft × 20 ft (6 m × 6 m) [400 ft2 (36 m2)]

Important Notes

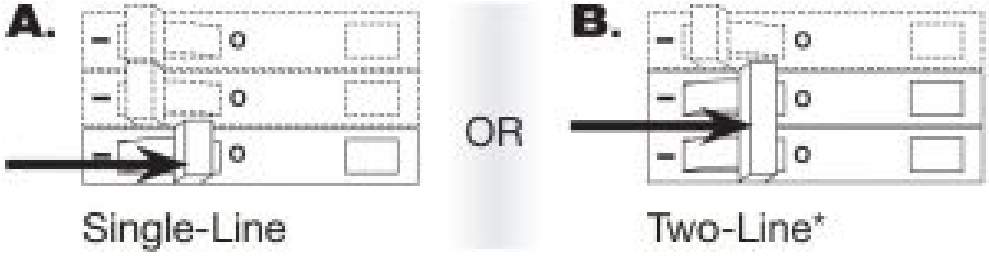
Please read before installing.

1. 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.
2. Device will not function if Black wires (Circuit 1/Line 1) are not wired.
3. This product is rated to control 6 A per circuit. Circuits may NOT be wired in parallel to control loads greater than 6 A.
4. **CAUTION:** Risk of Electric Shock— More than one disconnect switch may be required to de-energize the equipment before installing the unit, rewiring, or replacing bulbs.
5. When power is applied, the dual circuit sensing switch can be manually turned on or off after 60 seconds and will automatically control the load after 2 minutes.
6. The dual-circuit sensing switch requires an unobstructed view of the room and line-of-sight to detect motion.
7. Hot objects or moving air currents can affect the performance of the dual-circuit sensing switch and may cause the sensor to turn on unexpectedly or maintain its current state longer than desired.
8. **CAUTION:** To reduce the risk of overheating and possible damage to other equipment, DO NOT use to control receptacles.
9. Install in accordance with all national and local electrical codes.
10. For indoor use only. Operate between 32 °F and 104 °F (0 °C and 40 °C).
11. DO NOT exceed 20 devices at 120 V~ or 7 devices at 277 V~ on a single branch circuit.
12. Clean with a soft damp cloth only. DO NOT use any chemical cleaners.

Wiring

Turn power OFF

WARNING! Shock Hazard. May result in serious injury or death. Turn power OFF at circuit breaker(s) before installing the unit, rewiring, or replacing bulbs.

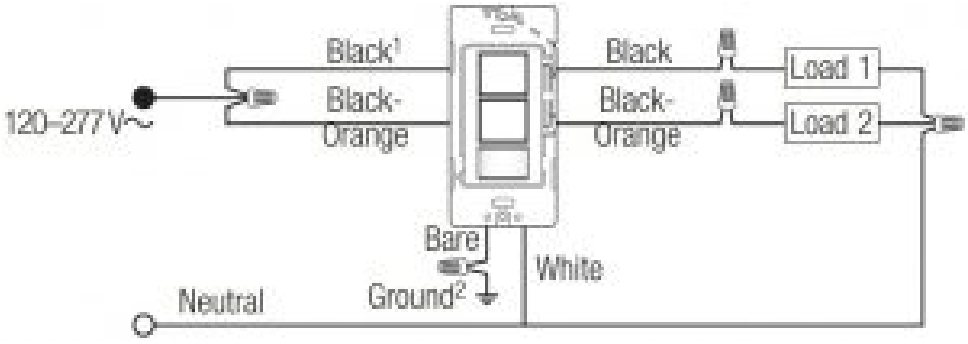


- Wiring must comply with NEC code for wiring Multiple Branch Circuits: Where two or more branch circuits supply devices or equipment on the same yoke, a means to simultaneously disconnect the ungrounded conductors supplying those devices shall be provided at the point at which the branch circuits originate.

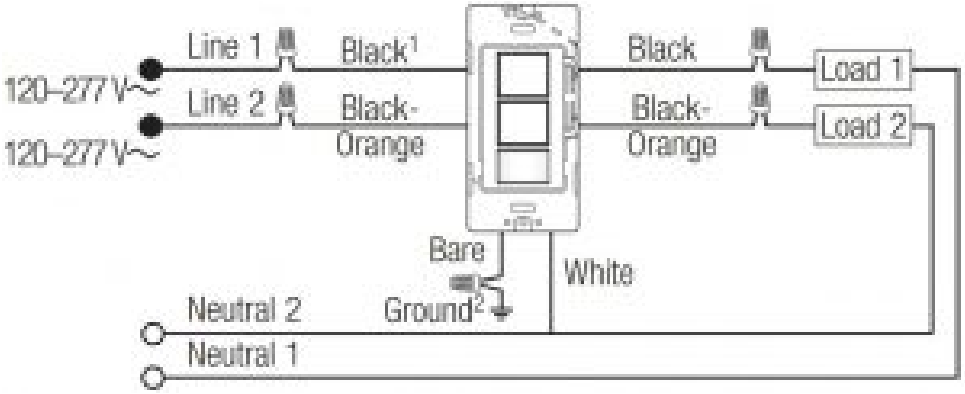
Connect dual-circuit sensing switch

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

   Single-Line Wiring

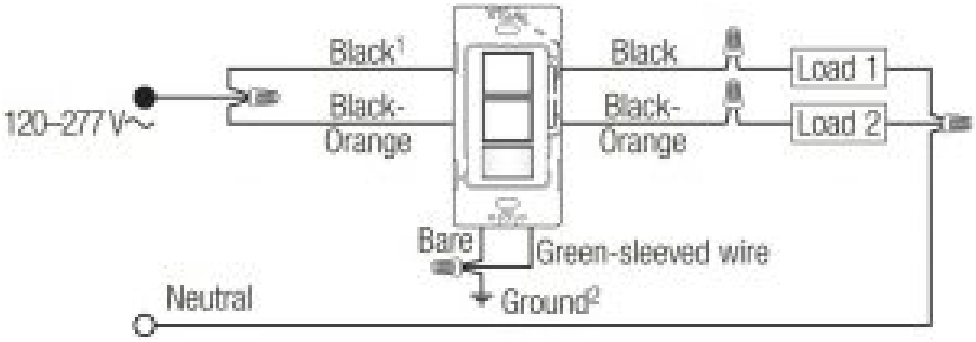


   Two-Line Wiring

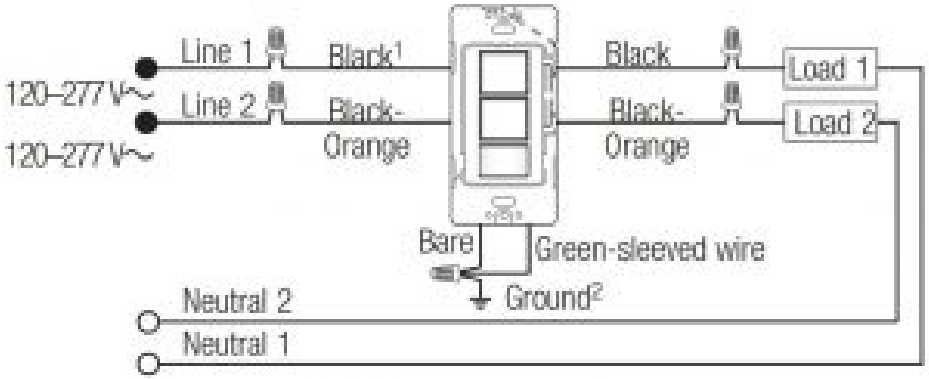


2. If no neutral is present, connect green-sleeved wire to ground.

   Single-Line Wiring



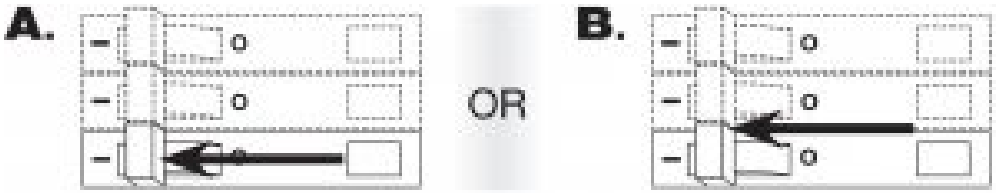
   Two-Line Wiring



- Device will not function if Black wires (Circuit 1/Line 1) are not wired. 2
- Device will not function if it is not grounded.

NOTE: Leave wallplate off if custom settings are desired. See Custom Settings instructions on reverse side

Turn Power ON



Wait for 60 seconds before manual switching

- The sensing switch will not manually control the load for 60 seconds.

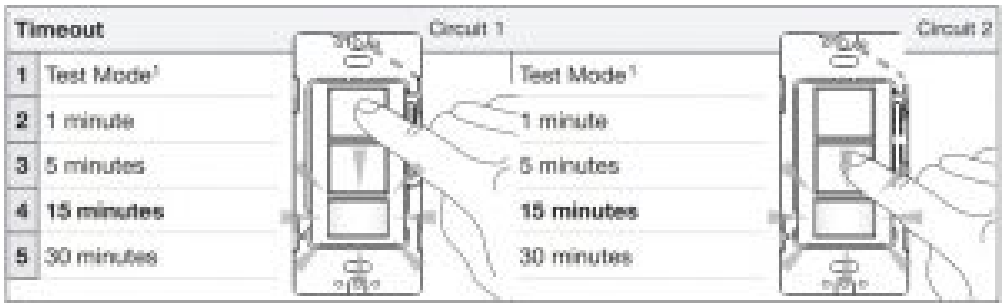
Wait for an additional 60 seconds for automatic switching

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

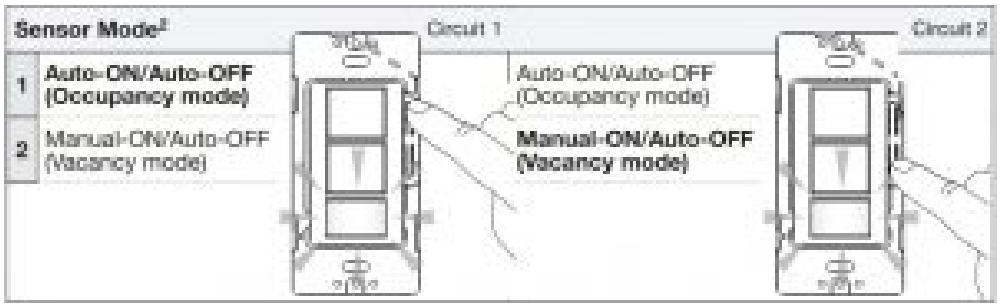
Adjustable Settings

Before proceeding, select your preferred settings from the table below; default settings are shown in bold. Read all instructions before continuing.

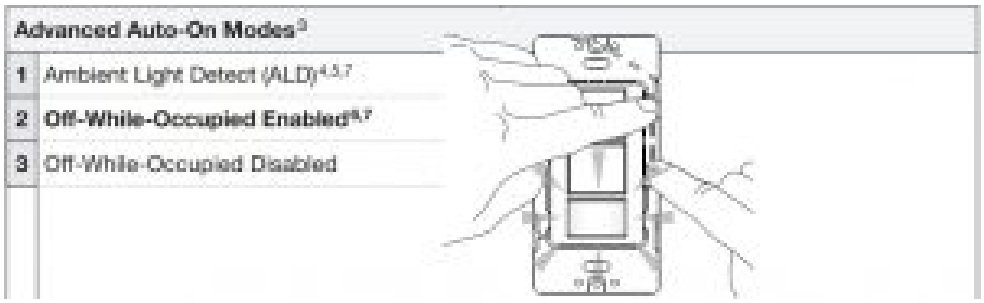
1. Press and hold the buttons indicated in the pictures
2. The lens will flash once at each setting (always starts at setting 1).
   Example: To set the Timeout to 1 minute, press and hold the tap button. Release the button after the lens flashes for the second time
3. The setting is saved after the button(s) is(are) released



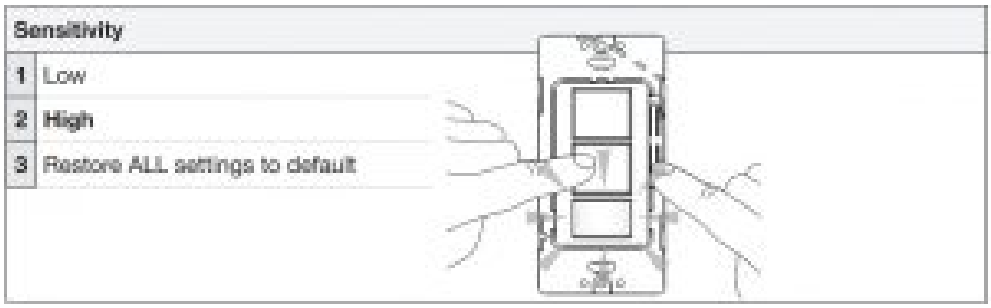
Total number of flashes



Total number of flashes



Total number of flashes



Total number of flashes

NOTES

1. Short (less than 15-second) timeout for testing sensor coverage. Device will exit test mode automatically after 5 minutes, or when any button is pressed.
2. Default Sensor Modesettings are locked in the MS-PPS6-DDV (Partial-ON model only) to satisfy the CEC 2013 Title 24 definition for a “Partial-ON” sensor.
3. These settings apply to all circuitsset to “Auto-ON” (Occupancy) mode.
4. 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 appropriate tap button within 5 seconds of entering the room. Over time, the switch will learn your preferred setting.
5. If ALD mode is selected, fan loads should be set to Manual-ON/Auto-OFF.
6. After manual shutoff, sensor will keep lights off for as long as space is occupied and timeout has not expired.
7. For more information on Off-While-Occupied and ALD, please visit **048489** [PDF]

Questions?

For additional instructions, information, and product application information, please review Application Note #489 (P/N 048489) at **048489** [PDF]

Troubleshooting

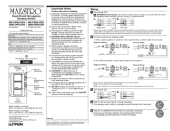
Symptom	Solution
Sensor modes can't be changed	User has the "Partial-ON" version of this product. Sensor modes are not adj ustable in this model number (MS-PPS6-DOV).
Powell can't be switched ON or OFF with newly installed sensing switch.	• A ground correction is required for sensor to function. Comec: bare wire t o ground. If no neutral is available, connect the green-sleeved and bare wires to ground. • After power is restored to the sensor, it MI take 2 minutes before the unit is fully functional
Lights turn OFF while space is occupied	• Sensor's timeout is too shot for this application; increase the timeout. • Sensor doesn't have full view of the room; move objects blocking its line of sight. • Sensor's sensitivity is set too low, change it to high sensitivity.
Lights do not turn ON when spac e is occupied	• Sensor mode is set to Manual-ON • Zincb:linenciLgtTht Detection (ALD) mode is enabled and the mom is too bright. Continue to turn lights on within 5 seconds of entering MGT to tea ch the wit your preferred daylight thresholc. • Sensor does not have full view of the room. Move objects blocking senso r's line of sight. • Sensor is in Off-While-Occupied mode and the timeout has no: expired.
Lights tin back ON after they are manualy turned OFF.	Off-While-Occupied is disabled: sensor wil turn lights back on 25 seconds af ter being tuned off; Enable Off-VVhile-Occupied.
Tap buttons control the wrong cir cuits.	• Switch wiring of product to match desired zones. • Find "zone mapping" programming at **www.lutron.com/DCSensotinstal l**.
Lights stay ON after space is vac ated.	Check room to ensure that no hot or moving objects or air currents are in th e senscr's line of sight. These can cause false–ripping of the sensor.

Customer Assistance

www.lutron.com/support

U.S.A., Canada, Caribbean: 1.844.LUTRON1
Mexico: +1.888.235.2910
Others:+1.610.282.3800

Documents / Resources

	LUTRON MAESTRO Dual Circuit Occupancy Sensing Switch [pdf] User Guide MAESTRO, Dual Circuit Occupancy Sensing Switch, MS-OPS6-DDV, UMS-OPS-DDV, MS-PPS6-DDV, UMS-PPS6-DDV

References

- Lutron: Beautiful light. Intelligent Shades. Powerful Controls
- Lutron: Beautiful light. Intelligent Shades. Powerful Controls
- lutron.com/DCSensorInstall
- Lutron Support Center | Lutron