TOOLS NEEDED TO INSTALL YOUR SENSOR

- Slotted/Phillips Screwdriver
- Electric Tape
- Slotted/Phillips Screwdriver
- Small Slotted Screwdriver
- Strip Gage
- Cat. No. OSSMT-M3

DESCRIPTION

The US Occupancy Sensor uses a non-audible, high frequency (40kHz) to sense Doppler shifts caused by motion in the space. The US sensor detects low levels of motion and can sense movement in a temperature range of 40°F to 110°F. The US sensor is more sensitive to small motion and does not rely on line of sight for detection.

FEATURES

- Leviton’s Decora® style design
- Sensor can be ganged together with other units in a multiple-switch wall plate.
- Self-Adaptive Technology adapts to occupancy pattern of use in auto mode.
- The Adapting Time-out walk through feature prevents lights from turning on when room is not adequately illuminated by natural light.
- True Zero-cross relay provides maximum life cycle and compatibility with electronic ballasts.
- Dual detection technology, both Passive Infrared and Ultrasonic. Can be configured as Ultrasonic Only or disabling Passive Infrared.

INSTALLING YOUR SENSOR

Step 1: WARNING: TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER at circuit breaker or fuse and test that power is off before wiring.

Step 2: Identify your wiring application (most common):

- Single-Pole
  - 1. Line (Hot)
  - 2. Neutral
  - 3. Ground
  - 4. Load

- Multi-location
  - 1. Line or Load (See important instruction)
  - 2. Neutral
  - 3. Ground
  - 4. First Traveler – note color
  - 5. Second Traveler – note color

NOTE: This product is not true 3-way devices.

Step 3: Preparing and connecting wires:

- Pull out pre-cut insulation from sensor leads.
- Make sure that the ends of the wires from the wall box are straight (cut if necessary).
- Remove insulation from each wire in the wall box as shown.

Step 4: Installing your Sensor – Single-Pole Application:

NOTE: Cat. No. OSSMT-M3 requires a neutral wire. If there is no neutral wire this device will not work.

NOTE: Restore power at circuit breaker or fuse.

NOTE: DO NOT TWIST the control knobs or levers when setting the Factory Settings (refer to the SETTINGS section).

FEATURES

- First Traveler Line Hot from Sensor 1 to Sensor 2 Black lead.
- Second Traveler wall box wire from Sensor 2 to Sensor 1 Blue lead.
- Green or bare copper wire in wall box to Sensor 1 Green lead.
- Load wall box wire to Blue lead (Sensor 1).

NOTE: Allow 1 minute for warm-up after connecting and energizing.

FEATURES

- Multi-Technology Designer Wall Switch Occupancy Sensor
- Cat. No. OSSMT-M3
- Ballast: 1500VA @ 347V
- Operating Temperature Range: 0°F to 120°F
- Relative Humidity: 20% to 90%, non-condensing

INSTALLATION INSTRUCTIONS

Step 1: TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH ELECTRICAL CODES AND REGULATIONS.

Step 2: To be installed and/or used in accordance with electrical codes and regulations.

Step 3: View). Keep this in mind when selecting the installation location and it is less effective sensing motion towards or away from its field-of-view.

Step 4: The device is most effective in sensing motion across its field-of-view.

Step 5: The source of heat must move from one zone of detection to another.

Step 6: That resides behind a multi-zone optical lens. This Fresnel lens

Step 7: Cat. No. OSSMT-M3 is cETL listed and conforms to California PIR or Ultrasonic Only modes of operation.

Step 8: The US Occupancy Sensor uses a non-audible, high frequency (40kHz) to sense Doppler shifts caused by motion in the space. The US sensor detects low levels of motion and can sense movement in a temperature range of 40°F to 110°F. The US sensor is more sensitive to small motion and does not rely on line of sight for detection.

WARRANTINGS AND CAUTIONS:

- DO NOT connect the load in excess of the specified ratings. Damage to the unit, fire, electric shock, personal injury or death can occur. Check your load ratings to determine suitability for your application.

- If you are unsure about any part of these instructions, consult an electrician.

- Do not install this unit to control a receptacle.

- Mounts in standard 347V type box.

- The OSSMT Occupancy Sensor is intended to replace a standard single-pole Decora wall switch.

- Do not touch the surface of the lens. Clean outer surface with a damp cloth only.

- Use this device with COPPER OR COPPER CLAD WIRE ONLY.

- For Multi-location applications, note that one of the screw cleats must be installed in a wall box that is mounted too close.

- It is recommended to mount the Occupancy Sensor at least 6 feet away from a climate control source.

- Sensor at least 6 feet away from a climate control source.

- Use check boxes when Steps are completed.

- Identify as the common (Line or Load) in both switch wall boxes.

- The blinders are two independent shutters that can narrow the field-of-view to a desired width.

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- If both sensors have not detected any motion within the last 2 seconds, the relay and its corresponding load will be turned OFF.

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Fixed Time Delay: The Fixed Time-Out value is selected by rotating the Time Control dial. There are four (4) values from which to choose. Each mark around the dial corresponds to a different value as indicated below (refer to Control Panel Diagram).

**NOTE:** All time durations are approximate within ±11 seconds.

Adapting Time Delay: The Sensor has built-in intelligence that changes the Adapting Time-Out duration in response to the occupancy conditions of the room it is installed in. If the Sensor detects "large," frequent motion it will INCREASE the Adapting Time-Out. If the Sensor detects "small," infrequent motion it will DECREASE the Adapting Time-Out. The Adapting Time-Out duration will range from 10 to 3000 in time plus the Walk-Through Time Delay.

Walk-Through Time Delay: The walk-through feature which is only active in the Adapting Time-Out mode, is useful when a room is not presently occupied. With this feature, the Sensor will turn the lights OFF shortly after the person leaves the room. The walk-through feature works in the following manner: When a person enters the room, the lights will turn ON. If the person leaves the room before the walk-through time-out of 3.5 minutes, the Sensor will turn the lights OFF after 2.5 minutes. If the person stays in the room for longer than 3.5 minutes, the Sensor will instead use the stored Adapting Time-Out Delay setting. If the Sensor detects motion within 30 seconds after the lights turn OFF, it will turn the lights ON and increase the time-out value by 1.5 times the existing value.

The Adapting Time-Out may be reset to the base value of 10 minutes by rotating the Time Control to a new time selection value and then back to the Adapting Time-Out value (refer to Control Panel Diagram).

**NOTE:** Do not increase the Adapting Time-Out when looking for a possible cause for continuous or repeat stays in a room because the Sensor Unit will react to the new time-out setting.

**US Sensitivity and PIR Disable**

1. amber flashes = high ultrasonic sensitivity, PIR enabled
2. amber flash = medium ultrasonic sensitivity, PIR enabled
3. green flashes = low ultrasonic sensitivity, PIR disabled
4. green flash = high ultrasonic sensitivity, PIR disabled

NOTE: The program times out in 30 seconds from the last button press. The factory settings for the US Sensitivity is Medium with PIR and Ultrasonic technologies enabled.

7. Replace the Control Panel Cover and Decora® wallplates.

- **US sensor ports**
- **LED window**
- **Control panel cover**
- **Blinders**
- **Lens**

**OPERATION**

**PUSH BUTTON(S)**

1. Cat. No. OSSMT has a single push-button switch that toggles the relay and its corresponding ON and OFF (refer to diagram). If the relay OFF, the relay will turn ON when the push button is pressed, and remain ON in the presence of motion. In the absence of motion, the Sensor Unit will remain OFF and the relay remains OFF.

2. When the Time-Out expires and the relay turns OFF a 30 second vacancy confirmation exists to turn the relay back ON. After this time the device will be placed into a lower detection threshold mode.

3. In Manual-On mode, the button must be pressed to turn the lights ON. In the absence of motion, the unit will Time-Out and the relay remains OFF.

**Limitations:**

- The Motion Indicator LED will blink every second while motion is detected.
- A red blink represents PIR detection, a green blink represents Ultrasonic detection.

**US Sensitivity and PIR Disable**

- Visit our website at www.leviton.com
- 1-800-824-3005

**LIMITED 5 YEAR WARRANTY AND EXCLUSIONS**

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship. Leviton further warrants to the original consumer purchaser that this product will be free of defects by repair or replacement, at its option, if within such five year period the product is returned prepaid, with proof of purchase date, and a description of the problem to Leviton Manufacturing Co., Inc., Attn: Quality Assurance Department, 211 North Service Road, Melville, N.Y. 11747. This warranty excludes and there is no disclaimable liability to labor for removal of this product in reinstallation. This warranty is void if the product is installed improperly or in an improper environment, swamped, mashed, opened or tampered with. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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