The Ultrasonic technology of the Vacancy Sensor uses a non-invasive, high frequency (60 kHz) sound to sense Doppler effects caused by movement in the sensed space. The US is more sensitive to small motion and does not rely on line of sight for detection. If both technologies have been factory set to the same time interval, the relay and its corresponding load will be turned OFF. Note that PIR technology responds to rapid changes in temperature, so care should be taken not to mount the device near a climate control device (i.e., radiators, air exchanges, and air conditioners). Hot or cold drafts will look like body motion to the device and will trigger if the device is set too close. It is recommended to mount the Vacancy Sensor at least 5 feet away from a climate control source.

In addition, it is also recommended NOT to mount the Vacancy Sensor directly under a large light source. Large wattages (greater than 100W incandescent) give off a lot of heat and switching the bulb causes a temperature change that can be detected by the device. Mount the Vacancy Sensor at least 6” away from large bulbs. If it is necessary to mount the device closer, lower the wattage of the bulb directly overhead.

**WIRING:**
- **UL listed and cETL listed.** Cat. No. OSSMT-TM is UL and cUL listed. Cat. No. OSSMT-GT is UL/ETL listed and cETL listed. The PIR technology of the Vacancy Sensor uses a small semiconductor heat sensor that is housed behind a minute metal lens. The PIR lens establishes dozens of zones of detection. The Sensor is sensitive to the heat emitted by the human body. In order to trigger the Sensor, the source of heat must move from one zone of detection to another. When the Sensor detects a heat source with the reflected or radiated motion occurring across its field-of-view and it is less effective sensing motion towards or away from its sensor.

**WARNING:**
- Avoid Fire, Shock, or Death! Turn OFF power at circuit breaker or fuse and load test before wiring.
- Full pre-cut insulation from sensor leads.
- Make sure that the ends of the wires from the wall box are straight and insulated before connecting to this device.
- Remove insulation from each wire in the wall box as shown.

**NOTES:**
- Cat. No. OSSMT-TM requires a neutral wire. If there is no neutral wire this device will not work.
- The Cut-Out Sensor requires a ground wire to operate properly. If there is no ground wire, ensure electrical box is grounded and attach ground wire box to a screw. If the ground wire is floating this device will not work.

**APPLICATION:**
- Installing your Sensor – Multi-location Wiring

**FEATURES:**
- **CEC Title 20 and 24 Compliant.**
- **Manual ON/Off OFF.**
- **Leviton’s Deco* design.**
- **Sensor can be ganged with other units in a multiple-switch application.**
- **Self-Adaptive Technology adjusts to occupancy patterns of use in auto adapt mode.**
- **The Adapting Time-out walk-through feature prevents lights from remaining ON for an extended period after only a momentary occupancy.**
- **Switches a single load circuit.**
- **Adjustable horizontal blinders for both left and right PIR masking.**
- **Zero-Turn Cross relay provides maximum flexibility and compatibility with electronic ballasts.**
- **Dual-detection technology, both PIR and Ultrasonic.**
- **OSSMT-GT can be configured as Ultrasonic Only by disabling PIR Infrared.**
- **Devices can operate in Multi-Tech or PIR Infrared Only modes.**
- **Time Delay: 30 seconds to 30 minutes.**
- **LED (Red/Green) visible status indicators for determining sensing technology operation.**
- **Vacancy Confirmation: a 30 second grace period is enabled in case of False OFF.**

**DESCRIPTION:**
Leviton’s Design Multi-Technology Wall Switch Vacancy Sensor. Cat. No. OSSMT-TM/OSMGT-GT is designed to detect motion using the Passive Infrared (PIR) and Ultrasonic sensor from sources (such as a person entering a room) within the field-of-view (monitored space). The Vacancy Sensor senses motion within its maximum coverage area of 2400 sq ft (220 m²). The Ultrasonic (US) sensor works with the PIR to light the ON when occupied. The controlled lights will remain lit through the end of the walkout time (if necessary), at which point the lights will be turned OFF. In adapting time-out inside the sensor adapts its time delay settings to the occupancy patterns of a room.

The OSSMT-GT is designed to control a single lighting control circuit and provide the energy savings of an occupancy sensor. The OSSMT-GT does not contain a neutral conductor. It is intended for use in retrofit applications where a neutral is not available in the wall box.

The OSSMT-GT is a single relay device, which works in Manual ON/Off mode only. Cat.No.OSSMT-TM is UL and cUL listed. Cat. No. OSSMT-GT is ETL listed and cETL listed. The PIR technology of the Vacancy Sensor uses a small semiconductor heat sensor that is housed behind a minute metal lens. The PIR lens establishes dozens of zones of detection. The Sensor is sensitive to the heat emitted by the human body. In order to trigger the Sensor, the source of heat must move from one zone of detection to another. When the Sensor detects a heat source with the reflected or radiated motion occurring across its field-of-view and it is less effective sensing motion towards or away from its sensor.

**APPLICATION:**
- Installing your Sensor – Multi-location Wiring
Fixed Time Delay: The fixed time-out value is selected by rotating the Time Control dial. There are four fixed 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 ±10 seconds.

Adapting Time Delay: The Sensor has been built in an adapting 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," infrquent motion it will INCREASE the Adapting Time-out duration. If the Sensor detects "Large," frequent motion (as in several persons in a room during a meeting), it will DECREASE the time-out duration only if it was NEVER increased (this is because the built in intelligence will always proceed in the direction of "increasing" adapting Time-out once it has increased it for any of the occupancy conditions sensed). The Adapting Time-out duration will range from 10 to 30 minutes in plus the Walk-Through Time Delay.

Walk-Through Time Delay: The walk-through feature is only active in the Adapting Time-out mode, as needed when a room is momentarily 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: The lights must be manually turned ON. If the person leaves the room the walk-through time-out of 2.5 minutes, the Sensor will turn the lights OFF after 2.5 minutes. If the person stays in the room for longer than 2.5 minutes, the Sensor will instead use the stored Adapting Time-out 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 1.25 minutes.

Use Setting: This Sensor is designed to operate in the Manual ON Mode (refer to Control Panel Diagram).

Configuration: The OISMT Sensor has a second grace period when the lights turn OFF. If motion is detected during this second grace period the lights will automatically turn back ON. This grace period will equal the amount of time the lights were off. The light source will appear untill the time has elapsed. If the time out is not reached, the device will automatically turn back ON. After this time the device will go back to Manual ON ONLY device.

Troubleshooting:
1. If there is no response from the unit and the LED never blinks, then unplug device and verify wiring (Step 4).
2. If the lights are nuisance tripping OFF from hallway or other unwanted locations:
   A. Try lowering the PIR Range Control. Rotate the knob clockwise.
   B. Be sure to use the Blinders to block any unwanted hallway traffic.
3. If the lights constantly stay ON, even when the room is unoccupied:
   A. Try lowering the Ultrasonic Sensitivity.
   B. Be sure to use the Blinders to block any unwanted hallway traffic.
4. If the sensor is turning lights OFF (False OPP):
   A. Check time delay and extend to 20 or 30 minutes.
   B. Check range sensitivity of PIR and US increase.

PRODUCT INFORMATION

- For technical assistance contact us at 1-800-624-3005
- Visit our website at www.leviton.com

FCC COMPLIANCE STATEMENT
This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio communications, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving Antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit differnt from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION
Any changes or modifications not expressly approved by Leviton Manufacturing Co., Inc., could void the user’s authority to operate the equipment.

LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

Leviton warrants this product against defects in material or workmanship, under normal use and conditions, for a period of five years from the date of sale to the original consumer. In the event this product is found to be defective, it will, at Leviton’s option, either be repaired or replaced, provided it is returned with transportation prepaid to Leviton Manufacturing Co., Inc., 201 North Service Road, Melville, NY 11747. The purchaser is responsible for all costs incurred in transportation of the product back to Leviton.

This warranty does not apply if the product has been damaged due to abuse, misuse, accident, or alteration, or if the product has been tampered with. In addition, this warranty does not cover defects or damage caused by power line surges, lightning damage, or if the product has been used in conjunction with equipment not manufactured by Leviton.

Leviton disclaims any implied warranty of merchantability or fitness for any particular purpose. In no event shall Leviton be liable for any incidental or consequential damages. If this product is defective in materials or workmanship, the exclusive remedy shall be repair or replacement of the product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Leviton reserves the right to discontinue or change specifications, models, or designs without notice and without incurring any obligation. All product specifications and features are subject to change without notice.

READ THE ENTIRE INSTRUCTIONS BEFORE INSTALLATION OR USE.