**WARRANTS AND CAUTIONS:**  
- To be installed and/or used in accordance with appropriate electrical codes and regulations.  
- If you are unsure about any part of these instructions, consult an electrician.  
- To be installed and/or used in accordance with appropriate electrical codes and regulations.

**DESCRIPTION**  
- Leviton’s Decora® style design  
- White LED Nightlight function with Occupancy Sensor  
- NightLight operates at 120V Ambient Light Present  
- Adjustable NightLight Levels  
- Auto ON/OFF (OSNL-Inx) and Manual ON/Off (OS1510)

**INSTALLING YOUR SENSOR**  
- Identify your wiring application (see table)

**INSTALLATION INSTRUCTIONS**

**Tools needed to install your Sensor**
- Slot/Phillips Screwdriver
- Electrical Tape
- Place Pencil
- Cutoff Ruler

**Features**
- LED Nightlight
- Occupancy Sensor
- Auto On/Off

**PREPARING AND CONNECTING WIRING:**

1. **Installing your Sensor - 3-Way Application:**
   - Note: Sensor requires a neutral connection in order to operate. Use the ground wire in the electrical box for ground connection. If there is no ground wire, an extension cord should be connected to the device. Pass the bulb causes a temperature change that can be detected by the device. Mount the Occupancy Sensor level at least 6 ft. away from large bulbs. If it is necessary to mount the device closer, lower the wattage of the bulb directly overhead.

2. **Preparing and connecting wiring:**
   - Pull out any insulation from sensor leads.
   - Make sure that the ends of the wires from the wall box are straight and free from construction force.
   - Remove绝缘 wire in each of the wall box shown.

3. **Non-standard wiring applications, refer to Wire Nut and Conductor Size Chart**
- Wire nut / # of cong. combination chart
- WIRE NUT / # OF CORD.

4. **Testing your Sensor prior to completely mounting in wall box:**
- Dress wires with a bend as shown in diagram to relieve stress when mounting device
- Position all wires to provide outlet wall box for device.
- Partially secure device with long mounting screws provided.
- Restore power at circuit breaker.

**PRODUCT INFORMATION:**
- **Features Diagram**
- **Troubleshooting Section**
- **Product Details**
- **Installation Instructions**
- **Wiring Diagrams**

**LISTENING TO THE USER:***
- The LED indicator will flash after power is applied. Allow approximately 30 seconds for charging. After 30 seconds, the light will turn ON. If the lights turn ON and the LED blinks, then a hand is waved in front of the lens, then the Sensor was installed properly.

**FEATURES AND SETTINGS:**
- **BLINDERS:** The blinder can narrow the field-of-view of the device to prevent unwanted activation from traffic in adjacent space. There are two blinders, and each operate independently. To operate the blinders, use a finger or small screwdriver to move the blinder adjustment levers toward or away from the center of the device. The blinder levers are found above the control knobs and below the test LEDS on the control panel. With both levers moved fully toward the center, the field-of-view is retracted to 30º. With both levers moved fully away from the center, the field-of-view is at a maximum 180º (refer to Sensor Features Diagram).

**WIRING SENSORS:**
- **Connect wires per wiring diagram as follows:**
- Screw wire connector on clockwise making sure there are no bare conductors below the wire connectors. Secure each connector with electrical tape.
- Green or bare copper wire in wall box to Sensor 1 Green lead.
- Neutral wire wall box wire to Sensor 1 White lead.
- Load wall box wire to Black lead.

**WIRING SENSOR 1:**
- **Connect wires per wiring diagram as follows:**
- Screw wire connector clockwise making sure there are no bare conductors below the wire connectors. Secure each connector with electrical tape.
- Green or bare copper wire in wall box to Sensor 2 Green lead.
- Neutral wire wall box wire to Sensor 2 Blue lead.
- Load wall box wire to Black lead.
- Sensor 2 Black lead to First Traveler from Sensor 2 to Sensor 1 Blue lead.
- Second Traveler from Sensor 2 to Sensor 1 Blue lead.

**WIRING SENSOR 2:**
- **Connect wires per wiring diagram as follows:**
- Screw wire connector clockwise making sure there are no bare conductors below the wire connectors. Secure each connector with electrical tape.
- Green or bare copper wire in wall box to Sensor 2 Green lead.
- Load wall box wire identified (tagged) when removing old switch and Second Traveler from Sensor 1 to Sensor 2 Black lead.
- Neutral wire wall box wire to Black lead.
- Second Traveler from Sensor 1 to Sensor 2 Blue lead.
- First Traveler from Sensor 2 to Sensor 1 Blue lead.

**NOTE:**
- Do not use old switch or breaker or fuse when servicing, installing or removing fixture.
- Do not touch the surfaces. Clean outer surface with a damp cloth only.
- The OSNL/OSNL-Inx/OS1510x Occupancy Sensor is intended to replace a standard light switch.
- Use this device with copper or copper clad wire only. With aluminium wire use only devices marked COALR or CUAL.
Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of sale by Leviton is free of defects by repair or replacement, at its option, if within such five year period the product is returned prepaid, with particular purpose, is limited to five years. The “time-out” is selected from four (4) preset values. Pointing the arrow at one of the markings on the face chooses the value of time. The button LED indicator light will flash twice when the time setting has changed. The following selections are available: OSSNL-IDx: Face Marking Value of Time OSSNL-IDx: Face Marking Value of Time

NOTE: The “time-out” is factory preset to thirty (30) minutes (refer to Sensor Features Diagram). All time durations mentioned in the instructions are approximate within 10 seconds.

TIME-DELAY: Cat. No. OSSNL/OSSNL-INx/OSS10-IDx will turn lights ON when motion is detected. When motion is no longer detected, the Spot Unit will wait a certain amount of time and then turn the lights OFF. This time-out is called “time-delay”.

The “time-out” is selected from four (4) preset values. Pointing the arrow at one of the markings on the face chooses the value of time. The button LED indicator light will flash twice when the time setting has changed. The following selections are available: OSSNL-IDx: Face Marking Value of Time OSSNL-IDx: Face Marking Value of Time

NOTE: The “time-out” is factory preset to ten (10) minutes (refer to Sensor Features Diagram). All time durations mentioned in the instructions are approximate within 10 seconds.

RANGE: To decrease detection range and sensitivity, rotate the knob counter-clockwise (refer to Sensor Features Diagram). The detection range can be adjusted from 100% to 30%.

MANUAL-ON MODE (OSSNL-IDx ONLY): The factory default setting for the Manual-ON mode is 30S (30 second time-out). To change this setting to Auto-ON/OFF, turn the dial marked “ON MODE/NL DIM” clockwise anywhere into the area that indicates “MAN”. To return to Manual-ON, turn the dial counter-clockwise anywhere into the area that indicates “TIME”.

NOTE: OSSNL-IDx is a Manual-ON setting only.

LIGHTS: The OSSNL/OSSNL-INx/OSS10-IDx responds to the ambient light level present in a room. The OSSNL/OSSNL-INx/OSS10-IDx uses an internal photocell to detect when the ambient light level is approximately less than 1 foot candle activating the LED NightLight. Further, the internal photocell will turn OFF the LED NightLight when it detects an ambient light level over 3 foot candles. The LED NightLight has adjustable light output to meet the needs of the space and can be set for continuous mode or dim mode which will automatically dim to 5% of full brightness after 30 minutes of no occupancy.

LIGHTING DIM: To adjust the LED NightLight output, turn the dial marked “ON MODEL/DIM” (OSSNL-INx) or “NITELITE DIM” (OSS10-IDx) counter-clockwise to decrease and clockwise to increase light output.

LIGHTING MODE: The factory default setting for the NightLight Mode is dimmed mode. This means the LED NightLight automatically dims to 5% of full brightness after 30 minutes of no occupancy. To change the NightLight Mode perform the following procedure:

1. Press and hold the push button for 2 seconds to determine the current
   a. NightLight flashes once every 1 second for Continuous Mode until the button is released.
   b. NightLight flashes twice every 1 second for Dim Mode until the button is released.
2. To change, hold the push button for 10 seconds and the Mode will toggle. This will be indicated by a change in the flash pattern as described above.

Cat. No. OSS10

Field-of-View (Horizontal)

• Be sure to use the Blinders to block any unwanted hallway traffic.
• Check for reflected heat/light as Sensor Unit may be seeing motion through a window.
• If there is no response from the unit (the light never turns ON and the LED never blinks) 1 1/2 minutes after power is applied, then uninstall device and verify there is a ground connection at the wallbox. If there is a ground connection, verify wiring.
• If the lights never turn ON, but the LED lights check, check if the Manual-ON setting (OSSNL only). See Manual-ON Mode setting for adjustments.
• If the lights constantly stay ON, even when the room is unoccupied:
  a. Check the NightLight setting. See how this time compares to how long the lights stay ON.
  b. Try lowering the Range Control. Rotate the knob counter-clockwise about 30°.
  c. If the problem persists, try restoring default settings.
  NOTE: Do not restore so much that Cat. Nos. OSSNL/OSSNL-INx/OSS10-IDx cannot see normal occupancy.

NOTE: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two 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 this equipment.

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 instructions, 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 or television equipment, 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:

• Reseat or relocate the receiving Antenna.
• Increase the separation between the equipment and the receiver.
• Connect the equipment into an outlet on a circuit different 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 to the original consumer purchaser and not for the benefit of anyone else that this product at the time of sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton’s only obligation is to correct such defects by repair or replacement, at its option, 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, 201 North Service Road, Melville, New York 11747.

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There are no other or implied warranties of any kind, including merchantability and fitness for a particular purpose, but if any implied warranty is required by the applicable jurisdiction, the duration of any implied warranty shall be limited to such a period shorter than the limitation period described above. In no event shall the manufacturer be liable for incidental or consequential damages, including, without limitation, damage to, or loss of use of, any equipment, lost sales or profits or injury to persons or property or any other indirect damage, whether in contract or in tort, resulting from the use or inability to use the product or from any modification or attempt to modify or repair the product by the user or by anyone else.

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NOTES

• For technical assistance contact us at 1-800-542-3055
• Visit our website at www.leviton.com

FCC COMPLIANCE STATEMENT

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