**INSTALLING YOUR SENSOR**

**NOTE:** Use check boxes when Steps are completed.

**Step 1**

**WARNING: TO AVOID FIRE, SHOCK, OR DEATH; TURN OFF POWER of circuit breaker or fuse and test that power is OFF before wiring.

**Step 2**

**Identifying your wiring application:**

**Single Pole**
1. **Line (Hot)**
2. **Neutral**
3. **Ground**

**3-Way**
1. **Line or Load**
2. **Line or Load**
3. **Load**

**4-Way**
1. **Line or Load**
2. **Line or Load**
3. **Load**
4. **First Traveler – note color**
5. **Second Traveler – note color**

**Features Diagram**

Refer to Features Diagram.

**Step 3**

**Preparing and connecting wires:**

**Single Pole:**
- Black (Line)
- White (Neutral)
- Black (Load)
- White (Load)

**3-Way:**
- Black (Line)
- Black (Neutral)
- Black (Load)
- Black (Load)
- White (Neutral)
- White (Load)
- White (Load)

**4-Way:**
- Black (Line)
- Black (Neutral)
- Black (Load)
- Black (Load)
- White (Neutral)
- White (Load)
- White (Load)
- White (Load)

**NOTE:** If using 2 #12 w/1 or 2 #16 or #18 wire, use 2 #12 wires to connect.

**Step 4**

**Installing your Sensor – 3-Way Wiring Application:**

1. **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.
   - Use this device only with copper or copper clad wire. With aluminum wire use only devices marked CO/AL or CUPAL.
   - Partially secure device using long mounting screws provided.
   - Restore power at circuit breaker or fuse.

**Step 5**

**Installing your Sensor – Single-Pole Application:**

1. **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.
   - Use this device only with copper or copper clad wire. With aluminum wire use only devices marked CO/AL or CUPAL.
   - Partially secure device using long mounting screws provided.
   - Restore power at circuit breaker or fuse.

**Step 6**

**Testing your Sensor prior to completely mounting in wall box:**

1. **Strip Gaps (measure bare wire here)**
2. **Cut (if necessary)**
3. **Plug in Sensor**
4. **Null**
5. **Check all connections and Secure with electrical tape.

**NOTE:** Drees wires with a bend as shown in diagram to relieve stress when connecting device.

**FEATURES AND SETTINGS:**

**BLINDERS:** The blinders 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 blinder, use a finger or small screwdriver to move the blinder adjustment lever toward or away from the center of the device. The Blinder lever knobs are found above the control knobs and below the Blinks “280°” on the control panel. With both levers moved fully towards the center, the field-of-view is narrowed to 32°. With both levers moved fully away from the center, the field-of-view is returned to a maximum of 180° (refer to Sensor Features Diagram).
FEATURES AND SETTINGS:

TIME DELAY: Cat. No. OSSNL/OSS10-IDs will turn lights ON when motion is detected. When motion is no longer detected, the Sensor Unit will wait a preset amount of time and then turn the lights OFF. This wait time is called "time-out".

The "time-out" is selected from four (4) preset values. Pointing the arrow at one of the markings on the face changes the value of time. The button LED indicator light will flash twice when the setting time has changed. The following selections are available:

OSSNL-IDx: Face Marking Value of Time

- 30S: 30 second fixed time-out for performing a walk test
- 10M: 10 minute time-out
- 30M: 30 minute time-out
- 2H: 2 hour time-out

OSS10-IDx: Face Marking Value of Time

- 30S: 30 second fixed time-out for performing a walk test
- 10M: 10 minute time-out
- 30M: 30 minute time-out

NOTE: The "time-out" is factory preset to thirty (30) minutes (refer to Sensor Features Diagram).

NOTE: All time durations mentioned in the instructions are approximate within 10 seconds.

<table>
<thead>
<tr>
<th>OSSNL-IDx</th>
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<tr>
<td>30S</td>
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<td>30M</td>
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<td>2H</td>
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OSSNL-IDx: Face Marking Setting:

- Manual ON Mode: The factory default setting is "MANUAL ON". To change this setting to "AUTO OFF", turn the dial marked "MANUAL ON MODE/10 MIN DCB" clockwise about 30° or until the dial marking is invisible. To change from "AUTO OFF" back to "MANUAL ON", turn the dial counter-clockwise anywhere into the area that indicates "MANUAL".

NOTE: OSS10-IDx is a MANUAL ON setting only.

NIGHTLIGHT: The OSSNL-OSS10-IDs responds to the ambient light level present in a room. The OSSNL-OSS10-IDs uses an internal protocol to detect when the ambient light level is approximately less than 1 foot candle activating the LED Nightlight. Further, the internal protocol will turn OFF the LED Nightlight when it detects an ambient light level over 5 foot candles. The LED NightLight has adjustable light output to meet the needs of the space and can be set to a fixed continuous or dim mode which will automatically dim to 5% of full brightness within 5 minutes of full brightness and time-out and turn the lights OFF.

NIGHTLIGHT DIM: To adjust the LED Nightlight output, turn the dial marked "ON MODE/10 MIN DCB" or "10 MIN DCB". This dial control allows the user to adjust the LED Nightlight to any level between full brightness and 5% of full brightness.

NIGHTLIGHT 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 2 minutes of no occupancy when activated by the internal protocol. To change the Nightlight Mode perform the following procedure:

1. Press and hold the push button for 2 seconds to determine the current mode.

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.

OPERATION:

PUSH-BUTTON: Cat. No. OSSNL/OSS10-IDs has a push-button switch that toggles the LED Nightlight (refer to figure). If the lights are OFF, the lights will turn ON when the button is pressed, and remain ON in the presence of motion. In the absence of motion, the Sensor Unit will time-out and turn the lights OFF. If the lights are ON, the lights will turn OFF when the button is pressed. The lights will stay OFF regardless of motion detected, until the time-out expires. After the time-out expires, the lights will turn ON (Auto-On Mode only) with the next detected motion. This is useful for slide or film presentations.

NOTES:

- The Motion Indicator LED will blink every 2 seconds while motion is detected.
- In Manual-On mode, the button must be pressed to turn the lights ON.

NOTE:

- The "time-out" stays ON, even when the room is unoccupied.

A. Check the Time Setting. See how this time compares to how long the lights stay ON.

B. Try slowing the Range Control. Rotate the knob counter-clockwise about 30°.

C. If the problem persists, try reducing again.

NOTE: Do not reduce so much that Cat. No. OSSNL-OSS10-IDs cannot see normal occupancy.

D. Be sure to use the Blinders to block any unwanted hallway traffic.

E. Check for reflected heat/motion as Sensor Unit may be seeing motion through a window.

F. Check for adjacent HVAC and/or heater ducts.

PRODUCT INFORMATION:

- For technical assistance contact us at 1-800-624-3055
- Visit our website at www.leviton.com

TROUBLESHOOTING:

1. 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.

2. If the lights never turn ON, but the LED blinks, check if the Manual-ON setting (OSSNL only). See Manual-On Mode setting for adjustments.

3. If the lights constantly stay ON, even when the room is unoccupied.

A. Check the Time Setting. See how this time compares to how long the lights stay ON.

B. Try slowing the Range Control. Rotate the knob counter-clockwise about 30°.

C. If the problem persists, try reducing again.

NOTE: Do not reduce so much that Cat. No. OSSNL-OSS10-IDs cannot see normal occupancy.

D. Be sure to use the Blinders to block any unwanted hallway traffic.

E. Check for reflected heat/motion as Sensor Unit may be seeing motion through a window.

F. Check for adjacent HVAC and/or heater ducts.

Note: 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 reception, 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:

- Rearrange 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/television technician for help.

LEVITON LIMITED 5 YEAR WARRANTY AND EXCLUSIONS

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 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, if within such five year period the product is returned prepaid, with proof of purchase, to Leviton. All warranties, both express and implied, including any warranties of merchantability or fitness for a particular purpose, are excluded. To the extent allowed by law, Leviton shall not be liable for incidental, indirect, special, or consequential damages, including without limitation, damage to or loss of use of, any equipment, lost sales or profits or delay or failure to perform this warranty obligation. The remedies provided herein are the exclusive remedies under this warranty, whether based on contract, tort or otherwise.

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