**INTRODUCTION**

Leviton Cat. No. ODS15-IDx, Designer Wall Switch Occupancy Sensor is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view (monitored space) and automatically turn on the lights. The Occupancy Sensor is a closed circuit device which provides service and light control. The Occupancy Sensor will turn the lights ON when motion is detected, and keep the lights ON as long as motion is detected. The Occupancy Sensor uses a small semiconductor heat detector that resides behind a small multi-zone optics (as shown on the front). This lens area consists of two 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 at a speed of approximately 0.5 feet per second.

The Sensor has three types of Time-Outs: Walk-through, Base Time, and Adapting.

**FEATURES**

- **Leviton’s Decora® style design**
- **Controls 15A of lighting load**
- **Face Marking**
- **Low Profile, tamper-resistant lens**
- **Adapting time and ambient light**

**FACTORY SETTINGS**

- **Operates within a range of 36% to 100% of detection**
- **Factory Settings**
  - **Controls 15A of lighting load**
  - **Leviton’s Decora® style design**

**INSTALLATION**

**NOTE:**

- **C. Return the Light dial to its previous setting.**
- **B. The Time-Out duration if only it was NEVER increased (this is because the overlapping intelligence will always proceed in the direction of "increasing" Time-Out time once it has increased for any of the conditions covered). If the room is occupied for longer than 2.5 minutes, the Sensor will turn the lights OFF. If the person stays in the room for longer than 2.5 minutes, the Sensor will turn OFF the lights for the selected Time-Out duration. The Time-Out duration can be adjusted from 100% down to 36%.

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**Ambient Light Dial:** The ambient light setting is adjusted with the Ambient Light Dial (refer to Figure 2A). Turning the light dial fully counter-clockwise (CCW), sets the Sensor to manual ON mode (lights always turn ON). If the ambient light turns the lights OFF (as a result of detecting "small" motions), the light dial will stay OFF even when the ambient light is below the level selected by the light control. The detection range can be adjusted from 100% down to 35%.

**LET’S TEST IT:**

- 1. Connect wires per appropriate Wiring Diagram as follows: BLACK lead to LINE. BLUE lead to LOAD. GREEN lead to GROUND. TWIST all leads tightly together and with circuit, push firmly into the appropriate connector. Screw connector onto knock-out sleeve making sure that no bare wire shows below the connector. Secure each wire connector with electrical tape.
- 2. Ensure the Warning Label is in position (refer to Figure 3A). The Warning Label is factory prepositioned (refer to Figure 2A). This is a self-adjusting feature that will automatically adjust the time-out duration and sensitivity of the Sensor to the environment your Sensor is operating in. If the Sensor is installed within 6 feet of an air duct, rotate the Range Control 1/4 turn counter-clockwise (CCW) and set the Face Marking Value to 1. If the Sensor is installed beyond 6 feet of an air duct, rotate the Range Control 1/4 turn clockwise (CW) and set the Face Marking Value to 2.
- 3. The Ambient Light Dial is factory prepositioned (refer to Figure 2A). The detection range can be adjusted from 100% down to 35%.

**WARNINGS AND WARNINGS**

- **A. Do not fire, shock, or death: TURN OFF POWER at circuit breaker or fuse and wait 10 seconds before terminating service.**
- **B. Do not fire, shock, or death: Do not use this device in wet or damp locations.**
- **C. Do not fire, shock, or death: Do not touch the lens area with a cloth, paper towel, or any other material.**

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**PUSH-BUTTON:** Cat. No. OD515-IDx has a push-button switch that will toggle the lights (refer to Figure 2). 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 with the next detected motion. This is useful for slide or film presentations.

Service Switch: The slide switch located at bottom of Sensor has three positions: OFF, AUTO, and ON (refer to Figure 2). Note when in the OFF or ON position, the lights will not react to the push-button.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Position</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>OFF</td>
<td>Left</td>
<td>The lights are forced OFF, regardless of occupancy state. Use for changing lamps.</td>
</tr>
<tr>
<td>AUTO</td>
<td>Middle</td>
<td>Normal occupancy sensor operation.</td>
</tr>
<tr>
<td>ON</td>
<td>Right</td>
<td>The lights are forced ON, regardless of occupancy state.</td>
</tr>
</tbody>
</table>

**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. In the absence of motion, the unit will time-out and turn the lights OFF. If Manual-On mode is desired, keep the Slide knob in the fully counter-clockwise (CCW) position.
- If the lights constantly stay ON, even when the room is unoccupied:
  A. Check if the Sensor Unit is unplugged.
  B. Check if the Ambient Light Control Knob is pointed fully counter-clockwise (CCW). Rotate it clockwise (CW) until the lights turn ON.
  C. If the problem persists, try reducing the Range Control. Rotate the knob CCW about 30°.

**TROUBLESHOOTING**
- 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 wall box. If there is a ground connection, verify wiring.
- If the lights never automatically turn ON, but they do turn ON from the push-button:
  A. Check if the Service Switch is in the AUTO (middle) position.
  B. Check if the Ambient Light Control Knob is pointed fully counter-clockwise (CCW). Rotate it clockwise (CW) until the lights turn ON.

- For additional information call Leviton’s Technical Support Line.

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**OPERATION**

**Figures:**
- **Figure 1 - Field-of-View (Horizontal)**
  - 60 ft. (18.3 m)
  - 30 ft. (9.1 m)
  - 20 ft. (6.1 m)
  - 10 ft. (3.0 m)
  - 4 ft. (1.2 m)

- **Figure 1A - Side (Vertical) Field-of-View**
  - 11 ft.
  - 10 ft. (3.0 m)
  - 8 ft. (2.4 m)
  - 6 ft. (1.8 m)
  - 4 ft. (1.2 m)

- **Figure 2 - Sensor Features**

- **Figure 2A - Control Features**

**Wiring Diagram 1 - Single Control Application**

**Wiring Diagram 2 - Two Location Control Application**

**FCC COMPLIANCE STATEMENT**

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

**FOR CANADA ONLY**

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) www.leviton.com

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