**Features**

- **360 degrees lens for facilitating indoor occupancy sensors.**
- **Integrated Designs.**
- **Dual Relay.**
- **Adjustable Time Delay.**
- **Manual and Auto Calibration.**

**Description**

Leviton's High Bay Occupancy Sensors, Cat. No. OSFHD-IAW are specifically designed for high mounted areas such as with warehouse, and other high ceiling applications. The OSFHD installs directly to an industrial luminaire or electrical junction box. It is a self-contained sensor and relays that detect motion using the passive infrared (PIR) sensor sources (such as a person entering a room) within a defined field-of-view (monitored area) and automatically switches lights ON. The controlled light will remain ON until motion is detected and the scheduled time-delay has expired. The OSFHD is supplied with two interchangeable lens rings that allow the user to select between a 360 degree High Bay or Low Bay pattern and an aisle pattern with the included mask. Cat. No. OSFHD-IAW is UL/cUL listed and conforms to California Title 24 requirements. The Sensor's High Bay lens is designed for 20 ft. to 40 ft. mounting heights for a symmetrical pattern which will provide coverage of 50' to 60' diameter (refer to Figure 4 and 5). The Low Bay lens is designed for 8 ft. to 10 ft. mounting heights with a symmetrical pattern which will provide coverage of 30' to 30' diameter (refer to Figure 6). The Sensor is sensitive to the heat emitted by the human body. In order to initially trigger the Sensor, the source of heat must move from one zone of detection to another. Note that occupancy sensors respond rapid to temperature changes, so you should keep not to mount the device near a climate control source (i.e. radiators, air exchangers, and air conditioners). Hot or cold drafts will look like body motion to the device and will trigger if the unit is mounted too close. Mount the Occupancy Sensor 6 ft. from the heating or cooling ventilation source.

**Installation Instructions**

**Warning:** CONTROLLING A LOAD IN EXCESS OF THE SPECIFIED RATING MAY DAMAGE THE DEVICE OR EQUIPMENT. **Risk of Fire, Shock, Personal Injuries or Death! Ensure that the equipment being controlled has the rated power capabilities.**

**Warnings:**

- **TO INSTALL:**
  - Make sure to provide proper illumination in the installation area. Ample light is required to properly install the lens. Be sure to provide a clear field of view with the luminaire. Once the luminaire is mounted, be sure to ensure that there is a clear field of view to the sensors. The sensor will not function if it is obstructed.
  - **Do not attempt to disassemble or repair.**
  - **Clean outer surface with a damp cloth only.**
  - **Do not attempt to calibrate the sensor.**
  - **Always use this device with compatible LED Lamps and ballasts.**
  - **Always use this device with compatible Electronic Lamps and ballasts.**
  - **Always use this device with compatible Magnetic Lamps and ballasts.**

- **Factory Settings:**
  - **Load/Timer 1** 30 seconds
  - **Load/Timer 2** 30 seconds
  - **HR** 30
  - **OFF** 100%

**Configuration Value**

- **Selector:**
  - **Setpoint:**
    - **Input:**
      - **Blue Load 1**
      - **Blue Load 2**
      - **Red Load 1**
      - **Red Load 2**

**Table 6:**

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Configuration Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSFHD-IAW</td>
<td>30</td>
</tr>
<tr>
<td>OSFHD-CAW</td>
<td>30</td>
</tr>
</tbody>
</table>

**Load Ratings:**

- **800VA @ 120V, 50/60Hz, Ballast**
- **1000VA @ 230V, 50/60Hz, Ballast**
- **1200VA @ 277V, 50/60Hz, Ballast**
- **1500VA @ 347V, 50/60Hz, Ballast**

**Other Cautions and Notes:**

- **1. Disconnect Power when servicing luminaire or changing bulbs.**
- **2. Use this device with COPPER OR COPPER CLAD WIRE ONLY.**
- **3. Do not attempt to disassemble or repair. Clean outer surface with a damp cloth only.**

**Installation Instructions**

- **Warning:** TO AVOID FIRE, SHOCK, OR DEATH: TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF BEFORE ADJACENT.**

**Alternating Relay Sensor**

- **Cat. No. OSFHD-IAW (Alternating Relay Sensor)**
- **Cat. No. OSFHD-TW (Dual Relay Sensor)**
- **Cat. No. OSFLO-00W (Adapter, sold separately)**
- **Cat. No. OSFLO-00V (Adapter, sold separately)**

**The product models with input voltage of 120 - 347VAC have a motor rating of 5 HP at 120VAC.**

**Compatible with electronic and magnetic ballasts, electronic and magnetic low-voltage transformers.**

**Cat. No. OSFHD-IAW (Alternating Relay Sensor)**

- **1.0 HP at 277VAC, 50/60Hz, Ballast**
- **1.5 HP at 347VAC, 50/60Hz, Ballast**

**Cat. No. OSFHD-TW (Dual Relay Sensor)**

- **0.3 HP at 120VAC, 50/60Hz, Ballast**
- **1.5 HP at 277VAC, 50/60Hz, Ballast**

**Cat. No. OSFLO-00W (Adapter, sold separately)**

- **800VA @ 120VAC, 50/60Hz, Ballast**
- **1000VA @ 230V, 50/60Hz, Ballast**
- **1200VA @ 277V, 50/60Hz, Ballast**
- **1500VA @ 347VAC, 50/60Hz, Ballast**

**Cat. No. OSFLO-00V (Adapter, sold separately)**

- **800VA @ 120VAC, 50/60Hz, Ballast**
- **1000VA @ 230V, 50/60Hz, Ballast**
- **1200VA @ 277V, 50/60Hz, Ballast**
- **1500VA @ 347VAC, 50/60Hz, Ballast**

**Note:** Low Voltage or 480V units available with OSFHD-IAW.

**Manual Calibration:**

- **1.** To disable photocell complete turn dial to SET/OFF
- **2.** Move dial to % then back to AUTO
- **3.** Turn dial to AUTO for 5 seconds
- **4.** Remove the lock-nut from the threaded nipple and insert the wires and the threaded nipple into a half inch hole of the luminaire body or the electrical box.

**Specifications**

- **Compatible with electronic and magnetic ballasts, electronic and magnetic low-voltage transformers.**
- **Leviton’s High Bay Occupancy Sensors, Cat. No. OSFHD, are specifically designed for high mounted areas such as warehouse, and other high ceiling applications. The OSFHD installs directly to an industrial luminaire or electrical junction box.**
- **It is a self-contained sensor and relays that detect motion using the passive infrared (PIR) sensor sources (such as a person entering a room) within a defined field-of-view (monitored area) and automatically switches lights ON.**
- **The controlled light will remain ON until motion is detected and the scheduled time-delay has expired.**
- **The OSFHD is supplied with two interchangeable lens rings that allow the user to select between a 360 degree High Bay or Low Bay pattern and an aisle pattern with the included mask.**
- **Cat. No. OSFHD is UL/cUL listed and conforms to California Title 24 requirements.**
- **The Sensor’s High Bay lens is designed for 20 ft. to 40 ft. mounting heights for a symmetrical pattern which will provide coverage of 50’ to 60’ diameter.**
- **The Low Bay lens is designed for 8 ft. to 10 ft. mounting heights with a symmetrical pattern which will provide coverage of 30’ to 30’ diameter.**
- **The Sensor is sensitive to the heat emitted by the human body. In order to initially trigger the Sensor, the source of heat must move from one zone of detection to another.**
- **Note that occupancy sensors respond rapid to temperature changes, so you should keep not to mount the device near a climate control source (i.e. radiators, air exchangers, and air conditions).**
- **Hot or cold drafts will look like body motion to the device and will trigger if the unit is mounted too close.**
- **Mount the Occupancy Sensor 6 ft. from the heating or cooling ventilation source.**

**Notes:**

- **Warning:** CONTROLLING A LOAD IN EXCESS OF THE SPECIFIED RATING MAY DAMAGE THE DEVICE OR EQUIPMENT. **Risk of Fire, Shock, Personal Injuries or Death! Ensure that the equipment being controlled has the rated power capabilities.**
- **Warnings:**
  - **TO INSTALL:**
    - **Make sure to provide proper illumination in the installation area. Ample light is required to properly install the lens. Be sure to provide a clear field of view with the luminaire. Once the luminaire is mounted, be sure to ensure that there is a clear field of view to the sensors. The sensor will not function if it is obstructed.**
    - **Do not attempt to disassemble or repair.**
    - **Clean outer surface with a damp cloth only.**
    - **Do not attempt to calibrate the sensor.**
    - **Always use this device with compatible LED Lamps and ballasts.**
    - **Always use this device with compatible Electronic Lamps and ballasts.**
    - **Always use this device with compatible Magnetic Lamps and ballasts.**

- **Factory Settings:**
  - **Load/Timer 1** 30 seconds
  - **Load/Timer 2** 30 seconds
  - **HR** 30
  - **OFF** 100%

- **Configuration Value**
  - **Selector:**
    - **Input:**
      - **Blue Load 1**
      - **Blue Load 2**
      - **Red Load 1**
      - **Red Load 2**
OPERATION

Operational:

定时器延时控制

• 每次延时控制将分配到的外部负载在延时控制均会启动。

Alternating Relay Application:

• Alternating relay product models will be turned OFF when time delay control expires.

• Alternating relay product models will be turned OFF when time delay control expires.

Photocell and Daylighting Operations:

• Photocell and daylighting operations are set to the desired mode (manual or auto).

• The secondary load shall start counting from zero when the trigger point is crossed.

• If the secondary load control is set to infinity, the sensor shall always remain in the occupied state.

• If the secondary load control is set to infinity, the sensor shall always remain in the occupied state.

Certifications:

• All 120-347VAC Models meet all requirements and pass certification testing per UL 916 and CSA 22.2 No. 205 M1983.

Troubleshooting:

• Lights will turn OFF:
  - Circuit breaker or fuse is OFF: Turn the breaker ON. Ensure the lights being controlled are in working order (i.e., working bulbs, ballasts, etc.).
  - Sensor is wired incorrectly or may be defective: Confirm that the sensor’s wiring is done correctly and inspect visually for problems.
  - Lens is dirty or obstructed: Inspect the lens visually and clean if necessary, or remove the obstruction.
  - Lights will not turn ON:
    - Circuit breaker or fuse is OFF: Turn the breaker ON. Ensure the lights being controlled are in working order (i.e., working bulbs, ballasts, etc.).
    - Sensor is wired incorrectly or may be defective: Confirm that the sensor’s wiring is done correctly and inspect visually for problems.
    - Lens is dirty or obstructed: Inspect the lens visually and clean if necessary, or remove the obstruction.
    - The line voltage has dropped: Perform the necessary tests to ensure the line voltage has not dropped below 100V.
    - Lights turn OFF and ON too quickly:
      - Sensor may be mounted too closely to an air conditioning or heating vent: Move the sensor or close the vent.
      - The line voltage has dropped: Perform the necessary tests to ensure the line voltage has not dropped below 100V.

Certifications:

• Line Voltage Units:
  - All 120-347VAC Models meet all requirements and pass certification testing per UL 915 and CSA 22.2 No. 205 M1983.