Decora® Wall Switch PIR Occupancy Sensor with LED NightLight

**BASIC OPERATION**
The Passive Infrared (PIR) sensor detects motion from a heat-emitting source within its field-of-view to automatically switch lights ON and OFF, offering the same performance features as the ODS family of occupancy sensors. The Decora® Wall Switch PIR Occupancy Sensor with LED NightLight (OSSNL) has the ability to reduce (dim) and turn off the “Guide Light” function with a simple dial setting. The OSSNL consumes less than 1/2 Watt providing energy savings and guide lighting when room lights are off.

**APPLICATIONS**
The OSSNL is perfect for use in hospitality and health care facilities with either auto-ON or manual-ON settings with adjustable time delay settings of 30 seconds to 2 hours.

The OSSNL can be used to provide automatic lighting control for energy savings and convenience in a variety of commercial applications, including:

- Hotel restrooms
- Conference rooms
- Small offices
- Storage areas
- Hospital restrooms
- Classrooms
- Lounges
- Bathrooms

**FEATURES**

- Fits in standard wallbox and replaces single-pole wall switch; ground and neutral connection required. Gangable with other units.
- Low-profile design eliminates obtrusive “scanning-device” look. Elegant Decora® wallplates complement any interior for sleek aesthetics; uses Decora wallplates and coordinates with Leviton’s popular line of Decora wiring devices.
- 180° field-of-view provides approximately 2,100 SF of coverage
- Convenient pushbutton provides manual-ON/OFF light switching at any time
- Two dual element PIR sensors used to widen detection range
- Segmented Fresnel lens provides optimum sensitivity and performance. Designed with an extensive “minor motion” area where even slight body movements will be detected.
- Vandal resistant PIR lens
- Patented blinders—horizontal field-of-view may be adjusted between 180° and 60° of arc by using integral blinders located on either side of the lens
- No masking tape required
- Manual-ON/auto-OFF mode for installations where manual-ON switching is required but auto-OFF switching is still desired
PRODUCT DATA

FEATURES CONT.
• Red LED indicator light flashes when sensor detects motion to verify detection is active
• Time delay adjustment for delayed-OFF time settings of 30 seconds (for walking test), 10 minutes, 20 minutes and 30 minutes. Allows customized adjustments to maximize energy savings.
• Light sensor adjustable ambient light override ranges from approximately 2 foot-candles (20 lux) to 500+ foot-candles (5000+ lux) to prevent lights from turning ON automatically during periods of ample natural light, increasing energy savings.
• Light sensor enables the load hold-OFF feature once level has been set
• Vacancy confirmation—when the time out expires and the relays turn OFF, a 30 second vacancy confirmation exists to turn the relays back ON
• False detection circuitry
• Presentation Mode— feature for slide or film presentations allows push buttons to turn lights OFF and keep them OFF while the room is occupied
• LED NightLight offers “Guide Light” functionality
• Adjustable NightLight illumination setting for continuous or dimmed NightLight
• NightLight Mode—the factory default setting for the NightLight Mode is Dimmed Mode. This means the NightLight will automatically dim to 5% of full brightness after 2 minutes of no occupancy when activated by the internal light sensor.
• One unit can be used for 120V through 277V lighting. Compatible with both electronic and magnetic ballasts.
• Relay switches at the zero crossing point of the AC power curve to ensure maximum contact life and compatibility with electronic ballasts.
• Exclusive Levition High Inrush Stability (H.I.S.) circuitry specifically designed to handle today’s high inrush electronic ballast loads and offer unmatched durability and service

FIELD OF VIEW
The OSSNL provides a 180° field of view with a maximum coverage area of approximately 2100 square feet. The maximum sensing distance in front of the sensor is 40 feet, and at each side is 30 feet. A “minor-motion” zone detects relatively small body movements and allows the lights to stay ON even though a person may not be moving or walking around the room. The remainder of the field of view, the “major-motion” zone, exhibits a lesser degree of sensitivity and requires larger movements.

INSTALLATION
The OSSNL is preset to deliver optimum performance in a wide variety of applications without requiring any adjustments during installation. The unit may replace a single-pole wall switch mounted in a standard wall box. The unit must have a neutral and be properly grounded in order to operate. The unit’s integral blinders may be used to restrict the field-of-view to prevent unwanted detection of hallway traffic. It should be positioned at least 6 feet away from HVAC registers. Note that whenever the unit is powered up, it will take approximately 1 minute to begin normal operation.
**DIAGRAMS**

- **Blinder adjustment levers**
- **Control Panel Cover**
- **OSSNL Sensor Features**
- **Dimensions Night Light**
- **Vandal Resistant Lens with PIR and LED Night Light**
- **LED Indicator and Light Sensor**
- **Patented Blinders**
- **Control Panel Cover**
- **Pushbutton**

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OSSNL

DESCRIPTION
Occupancy Sensor Wall Switch with NightLight

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>CAT. NO. *</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>OSSNl-IDx</td>
<td>Occupancy Sensor Wall Switch with NightLight</td>
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To indicate color, add suffix to the end of the catalog number.
White (-W), Ivory (-I), Light Almond (-T), Gray (-G), Black (-E) and Red (-R).

*NATFA compliant and Made in USA models available.

ELECTRICAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Line Voltage</td>
<td>120-230-277VAC</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>120V, Nightlight OFF - 190mW</td>
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<tr>
<td></td>
<td>120V, Nightlight ON max - 50mW</td>
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<tr>
<td></td>
<td>277V, Nightlight OFF - 250mW</td>
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<tr>
<td></td>
<td>277V, Nightlight ON max - 410mW</td>
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<tr>
<td>Operational Frequency</td>
<td>50/60 Hz</td>
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<tr>
<td>Wire Designation</td>
<td>Line - Black</td>
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<tr>
<td></td>
<td>Load - Blue</td>
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<tr>
<td></td>
<td>Ground - Green</td>
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<tr>
<td></td>
<td>Neutral - White</td>
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<tr>
<td>Load Rating</td>
<td>Fluorescent: 1200VA @ 120V,</td>
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<tr>
<td></td>
<td>2700VA @ 277V</td>
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<tr>
<td></td>
<td>Incandescent: 800W @ 120V,</td>
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<td></td>
<td>Motor: 1/8 HP @ 120V</td>
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ENVIRONMENTAL

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<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>32-122°F (0-50°C)</td>
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<tr>
<td>Storage Temperature Range</td>
<td>14-85°F (-10-85°C)</td>
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<tr>
<td>Relative Humidity</td>
<td>20-90% non-condensing</td>
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OTHER

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<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td>Listings</td>
<td>CUL/US Certified, NOM, can be used to comply with 2016 Title 24, Part 6 occupancy sensing requirements, FCC compliant</td>
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<tr>
<td>Warranty</td>
<td>Limited Five-Year Warranty</td>
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Visit our Website at: www.leviton.com/sensors
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