Occupancy Sensor Lighting Controls

Leviton’s Wall Switch and Ceiling Mounted Occupancy Sensors use passive infrared or ultrasonic sensing technology to provide cost-effective lighting control. Leviton Occupancy Sensors are capable of monitoring conference rooms, classrooms, stairwells, stock rooms, lounges, rest rooms, and outdoor areas.

The Passive Infrared (PIR) units respond to change in the infrared background by turning lights ON when people enter a space being monitored, and OFF when the space is unoccupied. The ultrasonic units transmit ultrasound and monitor for changes in the signal’s return time to detect occupancy, turning lights ON when movement is detected, and OFF when the space is unoccupied. By analyzing traffic flow, Leviton Occupancy Sensors can be installed to generate significant lighting cost savings combined with energy efficiency.

OCCUPANCY SENSOR
LIGHTING CONTROLS
Overview                                         P1
Decora Wall Switch Infrared Occupancy Sensors   P2
Decora Dual-Relay Wall Switch Infrared Occupancy Sensor P2
Centura™ Fluorescent Energy Management System P3, P4
Self-Contained Infrared Ceiling Mount Occupancy Sensor P5
Multi-Tech Ceiling Mount Occupancy Sensor       P6
Ultrasonic Ceiling Mount Occupancy Sensor       P7
Infrared Ceiling Mount Occupancy Sensor         P9
Multi-Tech Wall Mount Occupancy Sensor          P10
Infrared Wide-View Wall Mount Occupancy Sensor  P10
Infrared High-Bay Wall Mount Occupancy Sensor   P10
Power Packs for Occupancy Sensors               P11
Infrared Outdoor Motion Sensors                 P12

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
Leviton provides a variety of space-monitoring Occupancy Sensor Lighting Controls for virtually any room, space, facility, home or office. Wall or ceiling, passive infrared or ultrasonic, end users will benefit from Leviton’s Occupancy Sensors as a direct result of their energy efficiency and obvious cost-effectiveness.

Features and Benefits

■ 180° field of view, covers approximately 2100 square feet
■ Selectable base time-delay interval from 30 seconds to 20 minutes
■ Self-adjusting delayed off time interval compensates for real time occupancy patterns, preventing unnecessary on/off switching
■ Can be used with incandescent or fluorescent lighting
■ Motion-activated; infrared sensing technology turns lights ON when room is occupied and OFF when unoccupied
■ Replaces standard switches in existing wallboxes
■ Ambient light override keeps lights off when there’s plenty of sunlight
■ Push-button manual override allows controls to be used like standard ON/OFF switches; manual-ON/Auto-OFF mode
■ “Walk-Through” feature shuts off lights after 2 1/2 minutes rather than an extended period
■ Compatible with Decora designer-styled devices
■ Backed by a Limited Five-Year Warranty

Cat. No. ODS15-IDW

Versatile Occupancy Sensor Lighting Controls for Cost-Effective Energy Savings

Multi-Technology Ceiling-Mount Occupancy Sensor
Combines infrared and ultrasonic technology for highly accurate monitoring. 360°, 2000 sq. ft coverage.
Cat. No. ODC20-M0W

Multi-Technology Wall-Mount Occupancy Sensor
Combines infrared and ultrasonic technology for highly accurate monitoring. 110°, 1200 sq. ft coverage.
Cat. No. ODW12-M0W

Infrared High-Bay Wall-Mount Occupancy Sensor
Ideal for warehouse aisles, hallways, stairways and other long, narrow spaces.
Cat. No. ODWHB-10W

Self-Contained Ceiling Mount PIR Occupancy Sensor
Contains sensor and switching relay; 360° field of view; adjustable delayed off time of 20 seconds to 15 minutes.
Cat. No. ODC0S-11W

Dual-Relay Decora Wall Switch Infrared Occupancy Sensor
Controls two separate lighting loads from a single unit. Features self-adjusting technology and choice of Classroom or Conference Room modes for maximum performance.
Cat. No. ODS0D-IDW

Outdoor Motion Sensor
Ideal for commercial/industrial settings, with temperature compensation to ensure performance in all weather conditions.
Cat. No. PS200-10W

To learn more about Leviton’s outstanding offering of devices visit our Website at: www.leviton.com

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
Commercial Grade

Decora® Wall Switch Infrared Occupancy Sensor (Incandescent or Fluorescent)

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>RATING</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decora Wall Switch PIR Occupancy Sensor with Self-Adaptive Technology</td>
<td>ODS15-ID (formerly 6768)</td>
<td>Fluorescent: 1800VA @ 120V, 4000VA @ 277V. Incandescent: 1800W @ 120V. Motor: 1/4 HP @ 120V</td>
<td>I, W, G, A</td>
</tr>
<tr>
<td>Decora Wall Switch PIR Occupancy Sensor</td>
<td>ODS10-ID (formerly 16775)</td>
<td>Incandescent: 800W @ 120V, Fluorescent: 1200VA @ 120V, 2700VA @ 277V. For 60 Hz AC only. Motor: 1/4 HP @ 120V</td>
<td>I, W, G, A</td>
</tr>
</tbody>
</table>

Dual-Relay Decora® Wall Switch Infrared Occupancy Sensor

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>PHOTOCELL CONTROL OPTIONS PER RELAY</th>
<th>RATING</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dual-Relay Decora Wall Switch PIR Occupancy Sensor with Self-Adaptive Technology</td>
<td>ODS0D-ID (formerly 6772)</td>
<td>Default Setting: Conference Room Mode Both Primary and Secondary Relays respond to Ambient Light Override. Alternate Setting: Classroom Mode Primary Relay only responds to Ambient Light Override. Primary Relay: Fluorescent: 1200VA @ 120V, 2700VA @ 277V. Incandescent: 800W @ 120V. Secondary Relay: Fluorescent: 800VA @ 120V, 1200VA @ 277V. Incandescent: 800W @ 120V</td>
<td>I, W, G, A</td>
<td></td>
</tr>
</tbody>
</table>

Decora® Wall Switch Infrared Occupancy Sensor

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>RATING</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decora Wall Switch PIR Occupancy Sensor, Single-Pole &amp; 3-Way, 180° field of view</td>
<td>PR180-1L</td>
<td>Incandescent: 500W, Fluorescent: 400VA Rapid Start Magnetic only @ 120V AC, Motor: 1/8 HP @ 120V AC</td>
<td>I, W, A</td>
</tr>
</tbody>
</table>

Residential Grade

Decora® Wall Switch Infrared Occupancy Sensor

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>RATING</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decora Wall Switch PIR Occupancy Sensor, Single-Pole, 150° field of view</td>
<td>PR150-1L</td>
<td>Incandescent: 500W, Fluorescent: 400VA Rapid Start Magnetic only @ 120V AC, Motor: 1/8 HP @ 120V AC</td>
<td>I, W, A</td>
</tr>
</tbody>
</table>

All devices are UL Listed and CSA Certified.

SPECIFICATIONS & FEATURES

Decora Wall Switch PIR Occupancy Sensor (ODS15-ID)
- For use in small offices, conference rooms, class rooms, stock rooms, lounges, restrooms, warehouses & commercial areas
- Exclusive automatic “Walk-Through” sensing increases energy savings by shutting lights within 2½ minutes after momentary occupancy
- Self-adjusting delayed OFF-time interval compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching
- 180° field of view, 2100 sq. ft. of coverage

Dual-Relay Decora Wall Switch PIR Occupancy Sensor (ODS0D-ID)
- Idea for class rooms and conference rooms
- Exclusive automatic “Walk-Through” sensing
- Provides automatic switching for 2 separate banks of fluorescent, incandescent, or low-voltage lighting from a single unit
- Self-adjusting delayed OFF-time interval compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching
- 180° field of view, 2100 sq. ft. of coverage
- Ambient light override prevents these switches from turning lights ON when there is ample natural sunlight
- Push-button manual override is used to turn lights ON at any time, regardless of the override setting

Wall Switch PIR Occupancy Sensor (ODS10-ID)
- For use in enclosed offices, storage rooms, copier rooms & closets
- One unit can be used for 120V or 277VAC 60Hz incandescent, low-voltage and fluorescent lighting with either magnetic or electronic ballasts, and motor loads.
- 180° field of view
- Fits in standard wallbox; gangable
- Delayed-off time settings: 10, 20 and 30 minutes with 30-second test mode
- Elegant Decora styling; uses Decora wallplate

TESTING & CODE COMPLIANCE
- UL Listed (File #E-118904)
- Cat. No. ODS0D-ID is CUS/US Certified
- CSA Certified (File #LR-91148M)
- NOM Certified (#057)
- Conforms to California Title 24 Energy Code
- Backed by a Limited Five-Year Warranty

COLOR
- Colors available as listed, add suffix to catalog number as follows: Ivory (-I), White (-W), Gray (-G), Almond (-A).

MATERIAL CHARACTERISTICS
- Operating Temperature: 0°C to 50°C
- Storage Temperature: -10°C to 85°C
- Relative Humidity: 20% to 90% non-condensing
Centura™ Fluorescent Energy Management System

Centura combines the technology of “daylight harvesting” with a host of innovative energy-efficient modular lighting controls, including dimmers, timers, occupancy sensors and photo-sensors that dim or turn off fluorescent lighting when a space is not being used. Centura incorporates the ability to interface with any Leviton occupancy sensor to provide even greater energy savings. When single or multiple occupancy sensors are installed, programmed interior lighting is automatically turned OFF when the room is vacant and back ON to the programmed level when occupancy is detected. The use of movement sensors means energy savings up to a proven 50%.

Leviton Occupancy Sensors Compatible with Centura System

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>COVERAGE</th>
<th>PAGE NO.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Tech Ceiling Sensor</td>
<td>ODC05-M0W</td>
<td>180°, 500 sq. ft</td>
<td>P6</td>
</tr>
<tr>
<td>Multi-Tech Ceiling Sensor</td>
<td>ODC10-M0W</td>
<td>180°, 1000 sq. ft</td>
<td>P6</td>
</tr>
<tr>
<td>Multi-Tech Ceiling Sensor</td>
<td>ODC20-M0W</td>
<td>360°, 2000 sq. ft</td>
<td>P6</td>
</tr>
<tr>
<td>Ultrasonic Ceiling Sensor</td>
<td>ODC05-U0W</td>
<td>180°, 500 sq. ft</td>
<td>P7</td>
</tr>
<tr>
<td>Ultrasonic Ceiling Sensor</td>
<td>ODC10-U0W</td>
<td>180°, 1000 sq. ft</td>
<td>P7</td>
</tr>
<tr>
<td>Ultrasonic Ceiling Sensor</td>
<td>ODC20-U0W</td>
<td>360°, 2000 sq. ft</td>
<td>P7</td>
</tr>
<tr>
<td>PIR Ceiling Sensor</td>
<td>ODC04-I0W</td>
<td>360°, 450 sq. ft</td>
<td>P8</td>
</tr>
<tr>
<td>Multi-Tech Wall Sensor</td>
<td>ODW12-M0W</td>
<td>110°, 1200 sq. ft</td>
<td>P9</td>
</tr>
<tr>
<td>PIR High-Bay Sensor</td>
<td>ODWHB-I0W</td>
<td>120 ft, 14 ft wide @ 30 ft height</td>
<td>P10</td>
</tr>
<tr>
<td>PIR Wide-View Sensor</td>
<td>ODWWV-I0W</td>
<td>110°, 2500 sq. ft</td>
<td>P10</td>
</tr>
</tbody>
</table>

Note: The Leviton Occupancy Sensors listed can be powered by the Centura Dimming Power Pack–Use of a separate Occupancy Sensor Power Pack is not required. Agency approvals for all Centura components are UL, CSA, FCC, and California Title 24 (where applicable).

For more information on the Centura™ Fluorescent Energy Management System, visit Leviton’s website at www.leviton.com/centura
Centura™ Fluorescent Energy Management System

Leviton’s new Centura™, a modular lighting control system for dimming fluorescent ballasts (Advance Mark VII™, OSRAM Sylvania Quicktronic® Helios™ and Energy Savings SuperDim™), brings increased energy savings to commercial spaces. Using a technique known as “daylight harvesting”, Centura factors in the available daylight for the precise control of fluorescent light levels to achieve optimum comfort and energy efficiency.

**SPECIFICATIONS & FEATURES**

- **Ideal for commercial spaces and individual offices**
- **Reduces eyestrain and fatigue from glare, increasing comfort and productivity**
- **All functions conveniently accessed through Controllers or via Leviton Personal Dimmer software from a PC**
- **Dimming Power Pack provides low-voltage power supply for Controllers, Photocell and Occupancy Sensors**
- **Centura Hand-Held Remote Controller Infrared**
- **Units include a cable for connecting the SmartJack to a PC and a mini-CD containing server, administrator and user software. For the latest software upgrades, check Leviton’s website**

**TESTING & CODE COMPLIANCE**

- Agency approvals for all Centura components are UL, CSA, NOM, FCC, and California Title 24 (where applicable) except for the hand-held remote controller

**For more information on the Centura™ Fluorescent Energy Management System, visit Leviton’s website at www.leviton.com/centura**

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**Commercial Grade**

**Centura™ Fluorescent Energy Management System**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>RATING</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centura Dimming Power Pack*—ON/OFF and DIM/BRIGHT control of 0-10VDC dimming fluorescent ballasts. Responds to Wall Controller, Occupancy Sensor and Photocell input and provides &gt;24 VDC power supply for these devices. Programmed via Wall Controller or via Leviton Personal Dimmer software from a PC. Secondary relay sends control signals to HVAC system. LED’s indicate operation mode.</td>
<td>CN100-0D0</td>
<td>2400VA @ 120V AC 60Hz, 5500VA @ 277V AC 60Hz. For use with 0-10VDC Advance Mark VII™, OSRAM Sylvania Quicktronic® Helios™, Energy Savings SuperDim™ and comparable ballasts only</td>
<td>Gray Metallic</td>
</tr>
<tr>
<td>Centura Dimming Controller with Infrared Receiver*—Decora-style 5-button unit for ON/OFF, DIM/BRIGHT and MAX override. Built-in IR receiver for use with Centura NE200-00E Hand-Held Remote. Programs energy management functions.</td>
<td>CN200-00C</td>
<td>No load rating, for use with Centura Dimming Power Pack only</td>
<td>White (Ivory color change kit included)</td>
</tr>
<tr>
<td>Centura Hand-Held Remote Controller Infrared—Remote provides convenient ON/OFF, DIM/BRIGHT control presets and programming. Designed for use with Centura CN200 Entry Station with Infrared Receiver.</td>
<td>NE200-00E</td>
<td>No load rating, for use with Centura CN200 Controller only</td>
<td>Black</td>
</tr>
<tr>
<td>Centura Switching Controller*—Decora-style rocker for ON/OFF switching</td>
<td>CN220-00C</td>
<td>No load rating</td>
<td>White (Ivory color change kit included)</td>
</tr>
<tr>
<td>Centura Dimming Controller*—Decora-style rocker for ON/OFF switching with built-in arrow-shaped rocker for DIM/BRIGHT control. LED display indicates selected brightness level. Programs energy management functions—back of wallplate provides instruction label that lines up with LED’s to facilitate programming.</td>
<td>CN221-00C</td>
<td>No load rating, for use with Centura Dimming Power Pack only</td>
<td>White (Ivory color change kit included)</td>
</tr>
<tr>
<td>Centura Photocell*—Detects available light levels for “Daylight Harvesting”. Allows Centura system to maintain a programmed light level by constantly adjusting fluorescent light output to compensate for changes in available daylight.</td>
<td>ODC0P</td>
<td>No load rating, for use with Centura Dimming Power Pack only. 0–70 foot candles</td>
<td>White</td>
</tr>
<tr>
<td>Centura SmartJack*—Allows desktop PC control of Centura Lighting Control System. Includes a cable for connecting the SmartJack to a PC and a mini-CD containing server, administrator and user software. For the latest software upgrades, check Leviton’s website</td>
<td>NE100-00C</td>
<td>No load rating, for use with Centura Power Pack</td>
<td>White (Ivory color change kit included)</td>
</tr>
</tbody>
</table>

For answers to technical questions, call Leviton’s Tecline at 1-800-824-3005

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
Self-Contained Ceiling-Mount Occupancy Sensor

PIR Occupancy Sensor with built-in relay—Separate Power Pack not required

<table>
<thead>
<tr>
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<th>COVERAGE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Self-Contained Ceiling-Mount Infrared Occupancy</td>
<td>ODC0S-I1W</td>
<td>Incandescent: 1000W @ 120V, Fluorescent: 1000VA @ 120V</td>
<td>360°, 530 sq. ft</td>
<td>White</td>
</tr>
<tr>
<td>and Switching Relay</td>
<td>(formerly 16786-120)</td>
<td>1 HP @ 120V</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Self-Contained Ceiling-Mount Infrared Occupancy | ODC0S-I2W        | Incandescent: 1000W @ 220V, Fluorescent: 500VA @ 220V | 360°, 530 sq. ft | White |
| and Switching Relay                              | (formerly 16786-277) | For 50Hz AC only                            |              |       |

| Self-Contained Ceiling-Mount Infrared Occupancy | ODC0S-I7W        | Fluorescent: 2700VA @ 277V, For 60Hz AC only | 360°, 530 sq. ft | White |
| and Switching Relay                              | (formerly 16786-277) |                                             |              |       |

| Protective Cage                                   | ODC0CG          |                                            |              | White |

All devices are UL Listed and CSA Certified.

SPECIFICATIONS & FEATURES

- Ideal for use in storage areas, small bathrooms, copy rooms and a variety of small spaces without wall switches
- Full 360° view of a 530 sq. ft. area when surface mounted on standard, 8-foot ceiling
- Sensor and switching relay combined in a single self-contained unit—No control unit required
- Ambient light override option prevents lights from turning ON when there is ample natural light
- Adjustable Delayed-OFF time settings from 20 seconds (for test mode) to 15 minutes
- Small, unobtrusive self-contained unit: 4.3” (109.2 mm) diameter

TESTING & CODE COMPLIANCE

- UL Listed
- CSA Certified
Multi-Technology Ceiling-Mount Occupancy Sensor (For use with Leviton Power Pack)*  Advanced motion sensors combine infrared and ultrasonic technology for highly accurate monitoring without false triggering. All-digital self-adjusting technology provides “Install and Forget” solution for automatic lighting control

<table>
<thead>
<tr>
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<th>COVERAGE</th>
<th>OPERATING FREQUENCY</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-Tech Ceiling-Mount Occupancy Sensor</td>
<td>ODC05-M0W</td>
<td>180°, 500 sq. ft</td>
<td>40kHz</td>
<td>White</td>
</tr>
<tr>
<td>Multi-Tech Ceiling-Mount Occupancy Sensor</td>
<td>ODC05-MRW</td>
<td>180°, 500 sq. ft</td>
<td>40kHz</td>
<td>White</td>
</tr>
<tr>
<td>Multi-Tech Ceiling-Mount Occupancy Sensor</td>
<td>ODC10-M0W</td>
<td>180°, 1000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Multi-Tech Ceiling-Mount Occupancy Sensor</td>
<td>ODC10-MRW</td>
<td>180°, 1000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Multi-Tech Ceiling-Mount Occupancy Sensor</td>
<td>ODC20-M0W</td>
<td>360°, 2000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Multi-Tech Ceiling-Mount Occupancy Sensor</td>
<td>ODC20-MRW</td>
<td>360°, 2000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Hard-Ceiling Raceway Adapter Kit</td>
<td>ODCRA-000</td>
<td>—</td>
<td>—</td>
<td>White</td>
</tr>
<tr>
<td>Protective Cage for Ceiling-Mount Occupancy Sensors</td>
<td>ODCCG-000</td>
<td>—</td>
<td>—</td>
<td>White</td>
</tr>
</tbody>
</table>

*Low-voltage wiring is used to connect Leviton Occupancy Sensors to Cat. No. ODP20 Power Pack (purchased separately). See page P11 for Power Pack information.

All devices are CUL/US Certified.

**SPECIFICATIONS & FEATURES**
- Ideal for office areas with cubicles, general work space, warehouse and storage facilities, cafeterias and public areas in commercial facilities
- Ultrasonic sensing for maximum sensitivity combined with Passive Infrared (PIR) sensing to prevent false triggering from air conditioning and corridor activity
- Self-adjusting settings continuously analyze and adjust infrared sensitivity, timer operation, and air current compensation for reliable, long-term performance
- Automatic dual-mode operation adjusts to either economy or high-sensitivity mode based on actual occupancy patterns for maximum energy savings
- Built-in Circadian Calendar — Provides 4-week learning period where the sensor monitors occupancy to establish trends that serve as the basis for automatic operation. During peak occupancy periods the sensor remains in high-sensitivity mode and during low occupancy periods it switches to economy mode.
- Manual Delayed-OFF time settings of 8, 16, and 32 minutes, with 8-second test mode
- Self-Adjusting Delayed-OFF time interval settings for 8 to 100 minutes — Compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching
- Non-volatile memory preserves all automatic and manual settings during power outages
- Choice of coverage patterns to suit a variety of applications
- Small, unobtrusive size (4.5” diameter) blends in with any décor
- Fast, simple installation using 3 color-coded low-voltage wires and a single mounting post
- Hard-Ceiling Raceway Adapter Kit (optional) provides complete solution for mounting occupancy sensors to hard ceilings. Two-piece kit contains Adapter Base and “rotate and lock” Adapter Plate for attaching Sensor. Compatible with most standard surface-mounting raceways; also suitable for mounting Sensors to standard octagonal J box

**Optional Performance Features** (Models with -MRW suffix)
- Ambient light override option prevents lights from turning ON when there is ample natural light
- Secondary Relay — Single-Pole Double-Throw (SPDT), rated 500 mA @ 24V AC/DC, three-wire isolated relay
- Secondary Relay can be used to send control signals to HVAC systems based on occupancy detection

**TESTING & CODE COMPLIANCE**
- CUL/US Certified

For answers to technical questions, call Leviton’s Techline at 1-800-824-3005

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
**Ultrasonic Ceiling-Mount Occupancy Sensor (For use with Leviton Power Pack)**

Advanced Ultrasonic sensing technology for highly accurate monitoring with excellent immunity to air currents and other interference. All-digital self-adjusting technology provides “Install and Forget” solution for automatic lighting control.

### SPECIFICATIONS & FEATURES

- **Ideal for** restrooms, office areas with cubicles, general work space, warehouse and storage facilities, cafes and public areas in commercial facilities
- Ultrasonic sensing for maximum range and sensitivity combined with high immunity to false triggering from air currents and other interference
- Self-adjusting settings continuously analyze and adjust sensitivity, timer operation, and air current compensation for reliable, long-term performance
- Automatic dual-mode operation adjusts to either economy or high-sensitivity mode based on actual occupancy patterns for maximum energy savings
- Built-in Circadian Calendar — Provides 4-week learning period where the sensor monitors occupancy to establish trends that serve as the basis for automatic operation. During peak occupancy periods the sensor remains in high-sensitivity mode and during low occupancy periods it switches to economy mode
- Manual Delayed-OFF time settings of 8, 16, and 32 minutes, with 8-second test mode
- Self-Adjusting Delayed-OFF time interval settings for 8 to 100 minutes — Compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching
- Non-volatile memory preserves all automatic and manual settings during power outages
- Choice of coverage patterns to suit a variety of applications
- Small, unobtrusive size (4.5” diameter) blends in with any décor
- Fast, simple installation using 3 color-coded low-voltage wires and a single mounting post
- Hard-Ceiling Raceway Adapter Kit (optional) provides complete solution for mounting occupancy sensors to hard ceilings. Two-piece kit contains Adapter Base and “rotate and lock” Adapter Plate for attaching Sensor. Compatible with most standard surface-mounting raceways; also suitable for mounting Sensors to standard octagonal J box

### Optional Performance Features

- Ambient light override option prevents lights from turning ON when there is ample natural light
- Secondary Relay — Single-Pole Double-Throw (SPDT), rated 500 mA @ 24V AC/DC, three-wire isolated relay
- Secondary Relay can be used to send control signals to HVAC systems based on occupancy detection

### TESTING & CODE COMPLIANCE

- CUL/US Certified

### TECHNICAL SPECIFICATIONS

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>Ultrasonic Ceiling-Mount Occupancy Sensor</td>
<td>ODC05-U0W</td>
<td>180°, 500 sq. ft</td>
<td>40kHz</td>
<td>White</td>
</tr>
<tr>
<td>Ultrasonic Ceiling-Mount Occupancy Sensor with Ambient Light Override and Secondary Relay</td>
<td>ODC05-URW</td>
<td>180°, 500 sq. ft</td>
<td>40kHz</td>
<td>White</td>
</tr>
<tr>
<td>Ultrasonic Ceiling-Mount Occupancy Sensor</td>
<td>ODC10-U0W</td>
<td>180°, 1000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Ultrasonic Ceiling-Mount Occupancy Sensor with Ambient Light Override and Secondary Relay</td>
<td>ODC10-URW</td>
<td>180°, 1000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Ultrasonic Ceiling-Mount Occupancy Sensor</td>
<td>ODC20-U0W</td>
<td>360°, 2000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Ultrasonic Ceiling-Mount Occupancy Sensor with Ambient Light Override and Secondary Relay</td>
<td>ODC20-URW</td>
<td>360°, 2000 sq. ft</td>
<td>32kHz</td>
<td>White</td>
</tr>
<tr>
<td>Hard-Ceiling Raceway Adapter Kit</td>
<td>ODCRA-000</td>
<td></td>
<td></td>
<td>White</td>
</tr>
<tr>
<td>Protective Cage for Ceiling-Mount Occupancy Sensors</td>
<td>ODCCG-000</td>
<td></td>
<td></td>
<td>White</td>
</tr>
</tbody>
</table>

*Low-voltage wiring is used to connect Leviton Occupancy Sensors to Cat. No. ODP20 Power Pack (purchased separately). See page P11 for Power Pack information. All devices are CUL/US Certified.*

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To learn more about Leviton’s outstanding offering of devices visit our Website at: www.leviton.com ...Building a Connected World

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Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
**Infrared Ceiling-Mount Occupancy Sensor**  
*(For use with Leviton Power Pack)*  
Advanced Passive Infrared technology for highly accurate monitoring in a variety of commercial applications. All-digital self-adjusting technology provides “Install and Forget” solution for automatic lighting control.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>COVERAGE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared Ceiling-Mount Occupancy Sensor</td>
<td>ODC04-IOW</td>
<td>360°, 450 sq. ft</td>
<td>White</td>
</tr>
<tr>
<td>Infrared Ceiling-Mount Occupancy Sensor with Ambient Light Override and Secondary Relay</td>
<td>ODC04-IRW</td>
<td>360°, 450 sq. ft</td>
<td>White</td>
</tr>
<tr>
<td>Hard-Ceiling Raceway Adapter Kit</td>
<td>ODCRA-000</td>
<td>—</td>
<td>White</td>
</tr>
<tr>
<td>Protective Cage for Ceiling-Mount Occupancy Sensors</td>
<td>ODCCG-000</td>
<td>—</td>
<td>White</td>
</tr>
</tbody>
</table>

*Low-voltage wiring is used to connect Leviton Occupancy Sensors to Cat. No. ODP20 Power Pack (purchased separately). See page P11 for Power Pack information. All devices are CUL/US Certified.

**SPECIFICATIONS & FEATURES**

- Ideal for use in small offices, general work areas, closets, restrooms, and other small areas in commercial facilities.
- Self-adjusting settings continuously analyze and adjust infrared sensitivity, timer operation, and air current compensation for reliable, long-term performance.
- Automatic dual-mode operation adjusts to either economy or high-sensitivity mode based on actual occupancy patterns for maximum energy savings.
- Built-in Circadian Calendar — Provides 4-week learning period where the sensor monitors occupancy to establish trends that serve as the basis for automatic operation. During peak occupancy periods the sensor remains in high-sensitivity mode and during low occupancy periods it switches to economy mode.
- Manual Delayed-OFF time settings of 8, 16, and 32 minutes, with 8-second test mode
- Self-Adjusting Delayed-OFF time interval settings for 8 to 100 minutes — Compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching.
- Non-volatile memory preserves all automatic and manual settings during power outages.
- Small, unobtrusive size (4.5” diameter) blends in with any décor.
- Fast, simple installation using 3 color-coded low-voltage wires and a single mounting post.
- Hard-Ceiling Raceway Adapter Kit (optional) provides complete solution for mounting occupancy sensors to hard ceilings. Two-piece kit contains Adapter Base and “rotate and lock” Adapter Plate for attaching Sensor. Compatible with most standard surface-mounting raceways; also suitable for mounting Sensors to standard octagonal J box.
- Optional Performance Features (Models with -IRW suffix)
  - Ambient light override option prevents lights from turning ON when there is ample natural light.
  - Secondary Relay — Single-Pole Double-Throw (SPDT), rated 500 mA @ 24V AC/DC, three-wire isolated relay.
  - Secondary Relay can be used to send control signals to HVAC systems based on occupancy detection.

**TESTING & CODE COMPLIANCE**

- CUL/US Certified.

For answers to technical questions, call Leviton’s Techline at 1-800-824-3005 ....Building a Connected World

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
Multi-Technology Wall-Mount Occupancy Sensor (For use with Leviton Power Pack)*

Advanced motion sensors combine infrared and ultrasonic technology for highly accurate monitoring without false triggering. All-digital self-adjusting technology provides “Install and Forget” solution for automatic lighting control.

**SPECIFICATIONS & FEATURES**

- Ideal for conference rooms, stairwells, high-ceiling rooms, open areas, storage rooms and classrooms. Also ideal for corner mounting in a variety of applications.
- Ultrasonic sensing for maximum sensitivity combined with Passive Infrared (PIR) sensing to prevent false triggering from air conditioning and corridor activity.
- Adjustable swivel neck rotates $80^\circ$ vertically and $60^\circ$ horizontally—Can be used for ceiling or wall mounting.
- Self-adjusting settings continuously analyze and adjust infrared sensitivity, timer operation, and air current compensation for reliable, long-term performance.
- Automatic dual-mode operation adjusts to either economy or high-sensitivity mode based on actual occupancy patterns for maximum energy savings.
- Built-in Circadian Calendar—Provides 4-week learning period where the sensor monitors occupancy to establish trends that serve as the basis for automatic operation. During peak occupancy periods the sensor remains in high-sensitivity mode and during low occupancy periods it switches to economy mode.
- Manual Delayed-OFF time settings of 4, 8, 16, and 32 minutes, with 8-second test mode.
- Self-Adjusting Delayed-OFF time interval settings for 4 to 100 minutes—Compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching.
- Non-volatile memory preserves all automatic and manual settings during power outages.
- Fast, simple installation using 3 color-coded low-voltage wires and a single mounting post.
- Ambient light override option prevents lights from turning ON when there is ample natural light.
- Secondary Relay—Single-Pole Double-Throw (SPDT), rated 500 mA @ 24V AC/DC, three-wire isolated relay.
- Secondary Relay can be used to send control signals to HVAC systems based on occupancy detection.

**TESTING & CODE COMPLIANCE**

- CUL/US Certified.

### DESCRIPTION

**CAT. NO.** | **COVERAGE** | **OPERATING FREQUENCY** | **COLOR**
--- | --- | --- | ---
ODW12-M0W | 110°, 1200 sq. ft | 32kHz | White
ODW12-MRW | 110°, 1200 sq. ft | 32kHz | White

*Low-voltage wiring is used to connect Leviton Occupancy Sensors to Cat. No. ODP20 Power Pack (purchased separately). See page P11 for Power Pack information. All devices are CUL/US Certified.
Infrared Wide-View and High-Bay Wall Mount Occupancy Sensors
(For use with Leviton Power Pack)*
Advanced Passive Infrared technology for highly accurate monitoring in a variety of commercial applications. All-digital self-adjusting technology provides “Install and Forget” solution for automatic lighting control.

**Wide-View**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>COVERAGE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared Wide-View Wall-Mount Occupancy Sensor</td>
<td>ODWWV-I0W</td>
<td>110°, 2500 sq. ft</td>
<td>White</td>
</tr>
<tr>
<td>Infrared Wide-View Wall-Mount Occupancy Sensor with Ambient Light Override and Secondary Relay</td>
<td>ODWWV-IRW</td>
<td>110°, 2500 sq. ft</td>
<td>White</td>
</tr>
</tbody>
</table>

**High-Bay**

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>COVERAGE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infrared High-Bay Wall-Mount Occupancy Sensor</td>
<td>ODWHB-I0W</td>
<td>120 ft, 14 ft wide @ 30 ft height</td>
<td>White</td>
</tr>
<tr>
<td>Infrared High-Bay Wall-Mount Occupancy Sensor with Ambient Light Override and Secondary Relay</td>
<td>ODWHB-IRW</td>
<td>120 ft, 14 ft wide @ 30 ft height</td>
<td>White</td>
</tr>
</tbody>
</table>

*Low-voltage wiring is used to connect Leviton Occupancy Sensors to Cat. No. ODP20 Power Pack (purchased separately). See page P11 for Power Pack information. All devices are CUL/US Certified.

**SPECIFICATIONS & FEATURES**

- ODWWV-I: Ideal for conference rooms, stairwells, high-ceiling rooms, large open areas, parking garages, storage rooms and rooms with pendant fixtures. Also ideal for corner mounting in a variety of applications.
- ODWHB-I: Ideal for monitoring long, narrow spaces such as warehouse aisles, hallways, stairways, any narrow room, closets and storage areas. Also ideal for corner mounting in a variety of applications.
- Self-adjusting settings continuously analyze and adjust infrared sensitivity, timer operation, and air current compensation for reliable, long-term performance.
- Adjustable swivel neck rotates 80° vertically and 60° horizontally—Can be used for ceiling or wall mounting.
- Automatic dual-mode operation adjusts to either economy or high-sensitivity mode based on actual occupancy patterns for maximum energy savings.
- Built-in Circadian Calendar—Provides 4-week learning period where the sensor monitors occupancy to establish trends that serve as the basis for automatic operation. During peak occupancy periods the sensor remains in high-sensitivity mode and during low occupancy periods it switches to economy mode.
- Manual Delayed-OFF time settings of 4, 8, 16, and 32 minutes, with 8-second test mode.
- Self-Adjusting Delayed-OFF time interval settings for 4 to 100 minutes—Compensates for real-time occupancy patterns, preventing unnecessary ON/OFF switching.
- Non-volatile memory preserves all automatic and manual settings during power outages.
- Fast, simple installation using 3 color-coded low-voltage wires and a single mounting post.

**Optional Performance Features**

- Ambient light override option prevents lights from turning ON when there is ample natural light.
- Secondary Relay—Single-Pole Double-Throw (SPDT), rated 500 mA @ 24V AC/DC, three-wire isolated relay.
- Secondary Relay can be used to send control signals to HVAC systems based on occupancy detection.

**TESTING & CODE COMPLIANCE**

- CUL/US Certified.
Power Packs for Occupancy Sensors (For use with Leviton Occupancy Sensors listed on pages P6–P10)* Leviton Power Pack units contain both a 24V DC power supply for Occupancy Sensors and a relay for switching incandescent or fluorescent ballast lighting loads. Add-A-Relay units can be used to expand control capability. Compact, lightweight Power Pack and Add-A-Relay units are easily mounted inside or outside a junction box or inside a fluorescent ballast cavity.

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>POWER INPUT</th>
<th>RELAY RATING</th>
<th>CONTROL INPUT</th>
<th>POWER SUPPLY OUTPUT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Pack, 120V</td>
<td>ODP20-010</td>
<td>120V AC 60Hz</td>
<td>13A Incandescent, 20A Fluorescent</td>
<td>5mA, 24V DC</td>
<td>100mA, 24V DC</td>
</tr>
<tr>
<td>Power Pack, 230V</td>
<td>ODP20-020</td>
<td>230V AC 50 &amp; 60Hz</td>
<td>20A Fluorescent</td>
<td>5mA, 24V DC</td>
<td>100mA, 24V DC</td>
</tr>
<tr>
<td>Power Pack, 277V</td>
<td>ODP20-070</td>
<td>277V AC 60Hz</td>
<td>20A Fluorescent</td>
<td>5mA, 24V DC</td>
<td>100mA, 24V DC</td>
</tr>
<tr>
<td>Power Pack, 347V</td>
<td>ODP20-070</td>
<td>347V AC 60Hz</td>
<td>15A Fluorescent</td>
<td>5mA, 24V DC</td>
<td>100mA, 24V DC</td>
</tr>
<tr>
<td>Add-A-Relay Unit</td>
<td>ODA00-000</td>
<td>—</td>
<td>All Ratings Listed Above</td>
<td>5mA, 24V DC</td>
<td>—</td>
</tr>
</tbody>
</table>

All devices are CUL/US Certified.

Power Pack Adapter

Low-Voltage Nipple Adapter with 1/2” Lock Nut for Power Pack and Add-A-Relay units

Power Pack Capacity Guide One Leviton Power Pack will supply power for a combination of up to 3 devices (Sensors and Add-A-Relay units) in the following configurations listed below.

<table>
<thead>
<tr>
<th>Number of Occupancy Sensors</th>
<th>Number of Add-A-Relay Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Add-A-Relay

- Expands Power Pack load capacity by functioning as a supplementary relay
- Provides ability to switch loads in different voltage systems (For example, switching 120V incandescent loads in a 277V fluorescent system and vice versa)
- Compatible with electronic ballasts
- Same compact size and mounting features as Power Pack

Nipple Adapter

- Simplifies the connection of any OD-series Occupancy Sensor to the low-voltage side of a Power Pack mounted inside a fluorescent ballast cavity
- 1/2” conduit lock nut included

TESTING & CODE COMPLIANCE

- Power Pack Units are CUL/US Certified
- Backed by a Limited Five-Year Warranty

COLOR

Power Pack and Add-A-Relay devices are black.
Outdoor Motion Sensors
Passive Infrared (PIR) outdoor motion sensor provide outstanding value in security lighting, convenience, safety and energy savings for a wide range of commercial and residential applications.

Commercial Grade

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>CAT. NO.</th>
<th>RATING</th>
<th>COVERAGE</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Series Outdoor PIR Motion Sensor</td>
<td>PS200-10</td>
<td>Incandescent: 1000W @ 120V. Fluorescent/Inductive: 500VA @ 120V. For 60Hz AC only</td>
<td>200°</td>
<td>W, B</td>
</tr>
<tr>
<td>Professional Series Outdoor PIR Motion Sensor with Dual Floodlights</td>
<td>PS200-1F</td>
<td>Incandescent: 1000W @ 120V. Fluorescent/Inductive: 500VA @ 120V. For 60Hz AC only</td>
<td>200°</td>
<td>W, B</td>
</tr>
<tr>
<td>Professional Series Outdoor PIR Motion Sensor</td>
<td>PS110-10</td>
<td>Incandescent: 1000W @ 120V. Fluorescent/Inductive: 500VA @ 120V. For 60Hz AC only</td>
<td>110°</td>
<td>W, B</td>
</tr>
<tr>
<td>Professional Series Outdoor PIR Motion Sensor with Dual Floodlights</td>
<td>PS110-1F</td>
<td>Incandescent: 1000W @ 120V. Fluorescent/Inductive: 500VA @ 120V. For 60Hz AC only</td>
<td>110°</td>
<td>W, B</td>
</tr>
</tbody>
</table>

Professional Series

• Ideal for a wide range of commercial/industrial settings including parking areas, storage facilities, warehouses, loading docks, marina, garages, walkways, campus grounds, meat lockers, walk-in refrigerators/freezers and outbuildings
• Adjustable Delayed-OFF time settings from 20 seconds (for test mode) to 15 minutes
• Adjustable sensitivity and immunity to RFI signals reduces false triggers
• Ambient light override prevents lights from turning ON when there is ample natural light
• Provides Automatic, Test and Continuous Modes—Test mode simulates automatic operation with short delayed-OFF time for ease of making adjustments. Continuous mode enables manual override for constant “lights ON” operation (when used with standard ON/OFF switch)
• Surge suppression minimizes likelihood of damage due to electrical surges
• Temperature compensation feature ensures uniform performance in extreme hot or cold weather and during temperature fluctuations
• Sensor neck adjustment allows accurate area monitoring: 110° vertical, 180° horizontal, 110° rotational

Residential Series

• Ideal for a wide range of residential settings including backyards, garages, entranceways, porches, swimming pool areas, doorways and private docks
• Sensor neck adjustment allows accurate area monitoring: 110° vertical, 180° horizontal, 110° rotational
• Adjustable Delayed-OFF time settings from 20 seconds (for test mode) to 15 minutes
• Adjustable sensitivity reduces false triggers
• Provides Automatic, Test and Continuous Modes—Test mode simulates automatic operation with short delayed-OFF time for ease of making adjustments. Continuous mode enables manual override for constant “lights ON” operation (when used with standard ON/OFF switch)

Testing & Code Compliance
• UL Listed
• CSA Certified

Color
Colors available as listed. For color selections, add suffix to catalog numbers as follows: White (-W) and Brown (-B).

For answers to technical questions, call Leviton’s Techline at 1-800-824-3005

Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
How To Use This Catalog

This edition of the Leviton Wiring Device Catalog has been re-designed to help you find the device you’re seeking in the quickest and easiest way possible. To achieve this, each Section (A, B, C, etc.) has been divided into three distinct portions in the following sequence—Industrial Grade first, Commercial Grade second, Residential Grade third—and grouped according to their amperage and voltage, lowest to highest. (Some product classes may have slight differences.) If you need to place an order for any quantity of 15 Amp, 125 Volt, Industrial Grade duplex receptacles with back and side wiring, you would begin your search for the right Leviton product with the Table of Contents. Here you’ll see that all receptacles are listed in Section D. Turning to Section D, you’ll find that product descriptions now lead off each listing, so that you’ll be able to understand what the device is about, functionally, in relation to your needs. Product description, in turn, is followed by Amps and catalog numbers for ordering purposes. To assist you further, such helpful highlights as Specifications & Features, Testing & Code Compliance, Color listing, Material Characteristics, color photos and dimensional drawings virtually fill each page. Four-color photographs have been added throughout the catalog to provide you with an enhanced view of the Leviton product line.

Any page in this L-504 Catalog can be used as a specifier sheet or as part of a presentation; and any page can be clearly faxed to customers and prospects. Product classes may also be pinpointed in the Quick Reference Guide following the Table of Contents. After turning to the proper page, you would locate the catalog number for the item that corresponds to your needs, along with basic information about similar items. Wiring diagrams, NEMA Configuration Charts, Electrical Industry Definitions, ANSI Architectural Symbols, and other related information can be found in the Technical Section (U). Specific product catalog