**Manuals+** — User Manuals Simplified.

# LEVITON ODC20-MDW Multi-Technology Ceiling-Mount Occupancy Sensor User Manual

**Contents**

**LEVITON**®

**LEVITON ODC20-MDW Multi-Technology Ceiling-Mount Occupancy Sensor**

Occupancy Sensor with Integrated Photocell, Line Voltage, Multi-Tech, Ceiling Mount, 2000SF, 120-277V, Extended Range Lens installed, Provolt™ Occupancy Sensor with Photocell, Provolt™ lighting control, Line Voltage, 8′-12′ Ceiling, Multi-Technology, 2000 sq ft, Daylighting, Auto-Calibration, 120-277V AC/CA 50/60HZ. UL/CE, RoHS & CEC Title 20/24 compliant. Color: White. The Leviton Provolt™ Series combine line voltage occupancy sensors and photocells into a self-contained unit. The integrated design alleviates the need for separate power pack and occupancy sensor wiring making it a low-cost, efficient energy solution for new construction and retrofits.

## Technical Information

### Product Features

- Application : Code Compliance, Auto ON/Auto OFF, Manual ON/Auto OFF
- Color : White
- Feature : Line Voltage
- Grade : Commercial
- Mounting : Ceiling Mount
- Product Line : Provolt
- Sensor Technology : Multi-Technology: Passive Infrared (PIR)/Ultrasonic (US)
- Sensor Type : Occupancy, Photocell Title 24 Compliant : Yes
- Performance Specifications
- Coverage (Sq.Ft.) : 2000
- Pattern : 360°

**Electrical Specifications**

- Current Consumption : 60-30ma
- Frequency : 50/60Hz
- Load Rating : 120V, 50/60Hz: 8A, Electronic Ballast, 800W/VA, Tungsten, Ballast, 1/4 HP Motor – 230V, 50Hz: 6A/6AX, Electronic Ballast, Magnetic Ballast,
- 1200W/VA, 1/3 HP Motor -277V, 50/60Hz: 5A, Electronic Ballast, 1200VA, 1/3 HP Motor
- Neutral Wire Connection : Required
- Voltage : 120/230/277 VAC

**Standards and Certifications**

- Listings : Can be used to comply with IECC, ASHRAE 90.1 and Title 24, Part 6 occupancy/vacancy sensing, automatic shut off and daylight harvesting requirements, UL
- 773A (Occupancy Standard), UL 924 (Emergency Equipment), cUL listed, CE compliant, NOM certified, RoHS compliant, NY LLC48 compliant

**Mechanical Specifications**

- Mounting Type : Ceiling Mount
- Size : Width 4.80″ (121.92mm), Depth 2.39″ (60.71mm)
- Environmental Specifications
- Relative Humidity : 0% to 90% non-condensing
- Storage Temperature Range : -15° to 160°F (-26° to 71°C)

**Type**

- Product Type : Occupancy Sensor and Photocell

**Warranty**

- Warranty : 5-Year Limited

**Features and Benefits**

- Sensors combine both PIR and U/S technology for unrivaled performance and reliability. Sensors use PIR technology to initially turn lights ON, and use U/S technology to keep the lights ON. Exclusive false-detection software assures lights are ON only when needed.
- Auto-Adapting: Time delay and sensitivity are continually adjusted to occupancy pattern of use
- Configurable for Manual ON/Auto OFF or Auto ON/Auto OFF
- Delayed OFF Timer: The sensor will turn lights OFF if no motion is detected after a specified time
- Exclusive Walk-through Feature: Provides increased energy savings by not leaving the lights ON for an extended period after only momentary occupancy
- False Detection Timer: (M/T) The PIR scans for movement and shuts lights off after 31 minutes preventing

- false triggers from HVAC systems
- Time delay and saved settings are protected during power outages and will return to the last known state
- Output short circuit protection
- Industry-exclusive self-configuring local manual switch input: Momentary or maintained switches are supported
- Presentation Mode feature for slide or film presentations allows push buttons to turn lights OFF and keep them OFF while the room is occupied
- Adjustable Time Delay: 30s, 5min, 10min, 20min, 30min
- Test Mode for simplified commissioning
- Manual Switch and Emergency Override are Class 1 and Class 2 circuits. Class 2 circuits provided for flexibility
- Industry-exclusive "fail-safe" circuitry: In the event of product failure, Return-to-Closed feature causes the relay to default ON which eliminates life safety concerns
- Industry-exclusive H.I.S. (High Inrush Stability) technology designed to handle today's high inrush electronic ballast loads and offer unmatched durability and service
- Robust and reliable mechanically held 10A latching relay provides dependability and robust performance for all load types and provides energy savings over electronically held relays
- Lenses are easily replaceable and color-coded red (mid-range) and black (extended range) for contractors and end-users to easily identify lenses from the ground
- Red Visual LED indicator – Blinks when infrared is detecting motion and during photocell manual calibration; solid during device malfunction
- Green Visual LED indicator – Blinks when U/S is detected; solid during auto calibration
- Yellow Visual LED indicator – Blinks during test mode; solid with emergency/BMS input

## SPECIFICATION SUBMITTAL

| JOB NAME: | CATALOG NUMBERS: | |
| --- | --- | --- |
| JOB NUMBER: | | |

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# Documents / Resources

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|---|---|
|  | **LEVITON ODC20-MDW Multi-Technology Ceiling-Mount Occupancy Sensor** [pdf] User Manual<br>ODC20-MDW, Multi-Technology Ceiling-Mount Occupancy Sensor, ODC20-MDW Multi-Technology Ceiling-Mount Occupancy Sensor, Ceiling-Mount Occupancy Sensor, Mount Occupancy Sensor, Occupancy Sensor, Sensor |

# References

- 🌐 **Leviton | Switches, Dimmers, Outlets & Lighting Controls**
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