

OAC-DT – MicroSet Dual Tech Line Voltage Ceiling Sensor

| | |
|----------|-------------|
| Catalog# | Prepared by |
| Project | Date |
| Comments | Type |

Overview

The Dual Technology sensor's combination of Ultrasonic and Passive Infrared technologies offers the most complete sensing equipment available today. MicroSet self-adjusting Dual Technology sensors drastically simplify and reduce a contractor's installation and adjustment time period.

Features

- MicroSet self-adjusting time delay and sensitivity
- Built-in light level sensor
- Units available for control of single or two separate loads
- Products tested to NEMA WD 7 - 2011 Occupancy Motion Sensors Standard
- LED Rated



PIR
Activated



Ultrasonic
Activated



MicroSet
Self-Adjusting



Specifications

| | |
|------------------------------|--|
| Technology | Passive Infrared (PIR) and Ultrasonic (US) |
| Power Requirements | 120 to 347 VAC, 50/60 Hz - Neutral Required |
| | 120 VAC |
| | Incandescent/Tungsten - 0 to 800W, 50/60 Hz |
| | Fluorescent/Ballast - 0 to 1200W, 50/60 Hz |
| | Electronic Ballast (LED) 3A |
| | Motor Load: ¼ HP @ 125 VAC |
| | 230 VAC |
| | Fluorescent/Ballast - 0 to 1200W, 50/60 Hz |
| | Electronic Ballast (LED) 3A |
| | 277 VAC |
| | Fluorescent/Ballast - 0 to 2700W, 50/60 Hz |
| | Electronic Ballast (LED) 3A |
| | 347 VAC |
| | Fluorescent/Ballast - 0 to 1500W, 50/60 Hz |
| | Electronic Ballast (LED) 3A |
| Time Delays | Self-adjustable, 15 seconds/test (10 minutes Auto), or Selectable 5, 15, 30 minutes |
| Coverage | 2000 sq. ft. |
| Light Level Sensing | 0 to 300 foot-candles |
| Operating Environment | Temperature: 32°F - 104°F (0°C - 40°C) Relative humidity: 20% to 90%, non-condensing For indoor use only |
| Housing | Durable, injection molded housing. Polycarbonate resin complies with UL 94V-0 |
| Size | 1.42" H x 4.5" W (36.068mm x 114.3mm) |
| Mounting | Mounts directly to ceiling tile, to a 4" square box and round mud ring or to 4" octagon box |
| LED Indicators | Red LED for PIR detection; Green LED for Ultrasonic detection |
| Standards | FCC Compliant cULus Listed RoHS Compliant |



Description/Operation

The MicroSet self-adjusting technology continuously monitors multiple sub-frequencies in the event that if a continuous Doppler shift occurs, such as those created by airflow from an air duct, the sensor will identify the noise as continuous and then block it out of view at a select sub-frequency. It will continue to monitor other sub-frequencies for human motion. This avoids false-activation, while still maintaining the high level of sensitivity that is necessary for sensing minor motion in a changing environment. Separate concurrent time delays for both Passive Infrared and Ultrasonic technologies avoid false activations or deactivations. In Automatic On Mode, the lights turn ON when a person enters the room. When enabled, the daylighting feature prevents lights from turning ON when the room is adequately illuminated by natural light.

Applications

- Classrooms
- Conference Rooms
- Office Spaces
- Common Areas
- Computer Rooms
- Break Rooms
- Hallways
- Other Indoor Office Spaces

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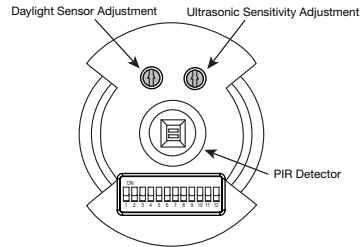
Controls

DIP Switch Legend

| | Time Delay | | Not Used | | PIR Sensitivity | Walk-Through Mode | LEDs | Override | Not Used | Daylighting | Bathroom Mode | Relay Swap |
|------------------------------------|------------|---|----------|---|-----------------|-------------------|-----------|-----------|----------|---------------|---------------|------------|
| DIP Switch | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Auto* | ▼ | ▼ | | | Full ▼ | Disable ▼ | Enable ▼ | Disable ▼ | | Relay 2 ▼ | Disable ▼ | Disable ▼ |
| 5 Minutes | ▼ | ▲ | | | 50% ▲ | Enable ▲ | Disable ▲ | Enable ▲ | | Relay 1 & 2 ▲ | Enable ▲ | Enable ▲ |
| 15 Minutes | ▲ | ▼ | | | | | | | | | | |
| 30 Minutes | ▲ | ▲ | | | | | | | | | | |
| *Self-Adjusts to 10 min. user mode | | | | | | | | | | | | |

(DMV model only) (DMV model only) (DMV model only)

Default =



Ordering

| Catalog # | Maximum Room Size | Field of View | Frequency | Features |
|-----------------|-------------------|----------------|-----------|-------------------------------|
| OAC-DT-2000-MV | 2,000 sq. ft. | Two Way (360°) | 32 kHz | w/ Daylight Sensor |
| OAC-DT-2000-DMV | 2,000 sq. ft. | Two Way (360°) | 32 kHz | Dual Relay w/ Daylight Sensor |

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Specifications and
 dimensions subject to
 change without notice.