

OAC-DT – MicroSet Dual Tech Line Voltage Ceiling Sensor

Catalog#	Prepared by			
Project	Date			
Comments	Туре			











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



Specifications

Technology	Passive Infrared (PIR) and Ultrasonic (US)					
Power	120 to 347 VAC, 50/60 Hz - Neutral Required					
Requirements	120 VAC					
	Incandescent/Tungsten - 0 to 800W, 50/60 Hz					
	Fluorescent/Ballast - 0 to 1200W, 50/60 Hz					
	Motor Load: ¼ HP @ 125 VAC					
	230 VAC					
	Fluorescent/Ballast - 0 to 1200W, 50/60 Hz					
	277 VAC					
	Fluorescent/Ballast - 0 to 2700W, 50/60 Hz					
	347 VAC					
	Fluorescent/Ballast - 0 to 1500W, 50/60 Hz					
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	Temperature: 32°F - 104°F (0°C - 40°C)					
Environment	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

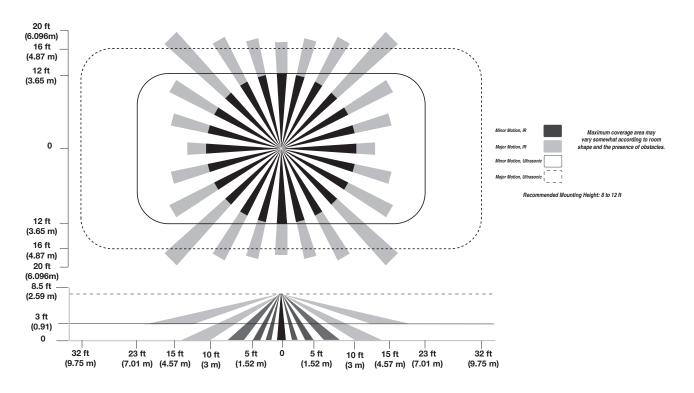
Wiring Diagrams

AUTOMATIC MODE OPERATION: 1. WHEN SENSOR ACTIVATES LOAD TURNS OF WHEN SENSOR 2. LOAD TURNS OF WHEN SENSOR BLACK WHITE DUAL LINE 120-347 VAC LINE LINE LINE LINE LINE LINE BLACK WHITE BLACK WHITE BLACK RED LEADS ARE NON-POLARITY SENSITIVE.

Coverage

OAC-DT-2000-MV/DMV

2,000 sq. ft.



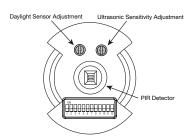
Controls

DIP Switch Legend

	Time Delay		Not Used		PIR Sensitivity Walk-Throug		Walk-Through Mode	ough 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 ▼	E	nable	▼	Disable ▼		Relay 2 ▼	Disable ▼	Disable	•
5 Minutes	•	_			50%	<u> </u>	Enable 🔺	D	Disable	•	Enable 🔺		Relay 1 & 2 ▲	Enable 🔺	Enable	A
15 Minutes	•	•											(DMV model only	(DMV model only)	(DMV mode	el only)
30 Minutes	A	_											(Dill' illoudi dill)	(Dine inouoi omy)	(2	o. oy,

*Self-Adjusts to 10 min. user mode

Default =



Ordering

Catalog #	Maximum Room Size	Field of View	Freqency	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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