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
- LED Rated



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								
	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	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

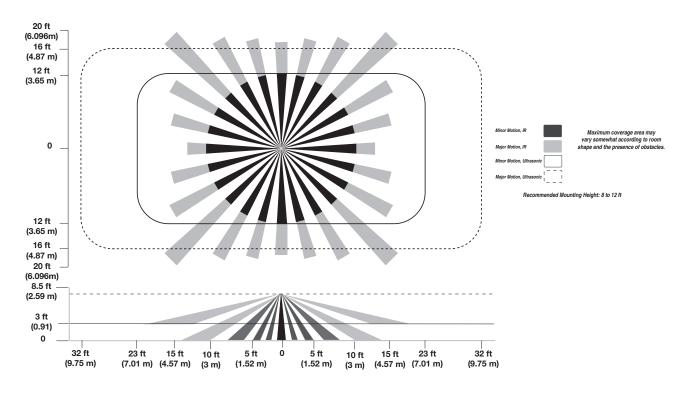
Wiring Diagrams

AUTOMATIC MODE OPERATION: 1. WHEN SENSOR ACTIVATES LOAD TURNS ON. 2. LOAD TURNS OF WHEN SENSOR THRES OUT. 1. WHEN SENSOR FOR WHEN SENSOR THRES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR ACTIVATES, BOTH LOAD STURNS OF WHEN SENSOR TIMES OUT. 1. WHEN SENSOR THROW THE SENSOR THROW THROW THE SENSOR THROW TH

Coverage

OAC-DT-2000-MV/DMV

2,000 sq. ft.



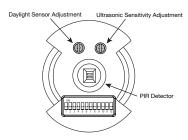
Controls

DIP Switch Legend

		Time D	elay	Not I	Used	PIR Sens	sitivity	Walk-Through Mode LEDs		Override		Not Used Daylighting		Bathroon	1 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	<u>2</u> 2 ▲	Enable	_	Enable	A
Г	15 Minutes A (DMV model only) (DMV model only) (DMV model only) (DMV model only)														el only)					
Г	30 Minutes	A	_												(5	o. o,	, (5	,,	(5	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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