Project	Catalog #	Туре	
Prepared by	Notes	Date	



Greengate

OAC-DT-MicroSet Dual Tech

Low Voltage Ceiling Sensor

Typical Applications

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

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Top Product Features

- · MicroSet self-adjusting Time Delay and sensitivity
- Optional built-in light level sensor
- Optional BAS/HVAC isolated relay
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- Selectable Walk-Through Mode
- Dual Relay control

Dimensional and Mounting Details

Product Certification



Product Features



Scale or Mounting Height





additional product diagram



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Order Information

SAMPLE ORDER NUMBER: OAC-DT-2000-R, OAC-DT-2000, OAC-DT-1000-R, OAC-DT-1000, OAC-DT0501-R, OAC-DT-0501 One single gang wallplate included

Catalog Number	Maximum Room Size	Field of View	Freqency	Features
Catalog Number	Maximum Room Size	Field of View	Freqency	Features
OAC-DT-2000-R	2,000 sq. ft.	Two Way (360°)	30 kHz	w/ BAS Relay & Daylight Sensor
OAC-DT-2000	2,000 sq. ft.	Two Way (360°)	32 kHz	
OAC-DT-1000-R	1,000 sq. ft.	Two Way (360°)	32 kHz	w/ BAS Relay & Daylight Sensor
OAC-DT-1000	1,000 sq. ft.	Two Way (360°)	32 kHz	
OAC-DT-0501-R	500 sq. ft.	One Way (180°)	40 kHz	w/ BAS Relay & Daylight Sensor
OAC-DT-0501	500 sq. ft.	One Way (180°)	40 kHz	

Product Specifications

Technology

• Passive Infrared (PIR) and Ultrasonic (US)

Mechanical

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

Environment:

- Operating temperature: 32°F to 104°F (0°C to 40°C)
- Relative humidity operating: 20% to 90% non-condensing
- · For indoor use only

 $\ensuremath{\text{Housing:}}$ Durable, injection molded housing. Polycarbonate resin complies with UL 94V-0

Electrical

Power Requirements:

- Input
- 10-30 VDC from Greengate Switchpack or Greengate system
- Maximum current needed is 25mA per sensor
- Output
 - Open collector output to switch up to ten Greengate Switchpacks
 - BAS with Isolated Form C Relay in (-R) model
 - Isolated Form C Relay Ratings: 1A 30 VDC/VAC

Hardware Specifications

LED Indicators:

Red LED for PIR detection; Green LED for Ultrasonic detection

Controls and Performance

Time delays:

Self-adjustable, 15 seconds/test (10 minutes Auto), or Selectable 5, 15, 30 minutes, or Zero Time Delay

Coverage:

• 500, 1000, and 2000 sq. ft.

Light sensing level (-R Models):

0 to 300 foot candles

Standards/Ratings

- cULus Listed Energy Management Equipment (UL916)
- FCC Compliant
- RoHS Compliant

Warranty

Five year warranty standard

Overview

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

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. In Manual On Mode (-R model only), the lights are turned ON by activating a momentary switch (model # GMDS-*) that is connected to the sensor. When enabled, the daylighting feature (-R models only) prevents lights from turning ON when the room is adequately illuminated by natural light.



Wiring Diagrams



Controls

DIP Switch Legend Time Delay Not Used PIR Sensitivity Walk-Through Mode LEDs Override Not Used Daylighting Bathroom Mode **Relay Swap** DIP Switch 10 2 4 11 12 3 9 Enable Disable Disabl Enable Auto* 5 Minutes **•** Full 50% Disab • • • Relay 2▼DisableRelay 1 & 2 ▲Enable Disable Enable 15 Minutes 30 Minutes . (DMV model only) (DMV model only) (DMV model only) *Self-Adjusts to 10 min. user mode Daylight Sensor Adjustment Litrasonic Se itivity Adjustment Ô Default = I

PIR Detecto



Field of View







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