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

Interactive Menu

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- Additional Resources page 2
- Wiring Diagrams page 3
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- Product Warranty

Product Certification







Product Features





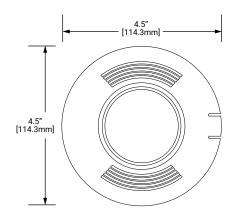


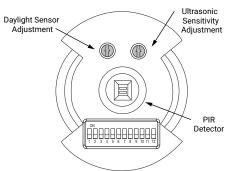
Top Product Features

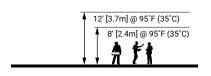
- · MicroSet self-adjusting Time Delay and sensitivity
- Optional built-in light level sensor
- · Optional BAS/HVAC isolated relay
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- Selectable Walk-Through Mode
- · Dual Relay control

Dimensional and Mounting Details

Scale or Mounting Height











Greengate OAC-DT-MicroSet

Order Information

SAMPLE ORDER NUMBER: OAC-DT-2000-R, OAC-DT-2000, OAC-DT-1000-R, OAC-DT-1000, OAC-DT-5011-R, OAC-DT-0501

One single gang wallplate included

Catalog Number	Maximum Room Size	Field of View	Frequency	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

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

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

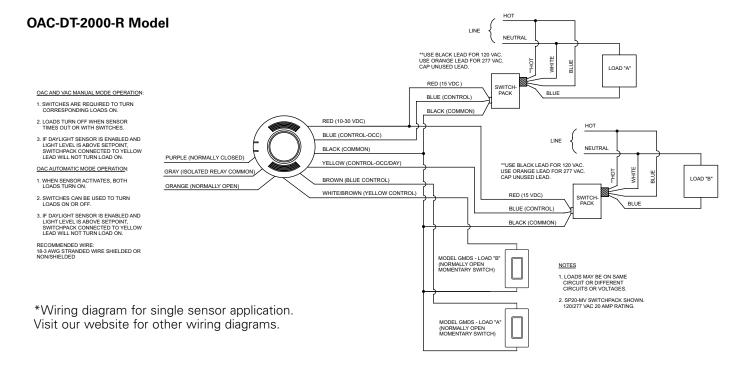
The Dual Technology sensor's combination of Ultrasonic and Passive Infrared technologies offers the most complete sensing equipment available today. MicroSet self-adjusting Dual Technology sensors drastically simplify and reduce a contractor's installation and adjustment time period.

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.



Greengate OAC-DT-MicroSet

Wiring Diagrams

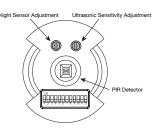


Controls

DIP Switch Legend

	Time [Time Delay Activ			ration		PIR Sen	Sensitivity Walk-Through Mode		LEDs		Override		Sweep		Full/Half Logic		HVAC/Tracking		Zero Time Delay		
			Relay	1	Relay 2																	
DIP Switch	1	2		3	4		5		6		7		8		9		10		11		12	
Auto*	▼	▼	Auto	•	Auto	•	Full	•	Disable	▼	Enable	▼	Disable	•	Disable	•	Full	•	Disable	•	Disable	•
5 Minutes	▼	A	Manual	A	Manual		50%	A	Enable	A	Disable	•	Enable	•	Enable	•	Half	•	Enable	A	Enable	A
15 Minutes	A	▼	(-R model only) (-R model only)														(-R mode	l only)	(-R mode	el only)		
30 Minutes	A	A] `	• •	•	• • • • • • • • • • • • • • • • • • • •											(, ,		,,		
*Self-Adjusts to 10 min. user mode			1																			

Default =





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Field of View

