Project	Catalog #	Туре	
Prepared by	Notes	Date	



Greengate

OAC-P-MicroSet PIR

Low Voltage Ceiling Sensor

Typical Applications

Conference Rooms • Open Office Spaces • Small Private Offices • Common Areas • Computer Rooms • Break Rooms • Restrooms (Non Partitioned) • Utility Closets

Interactive Menu

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

Product Certification







Product Features



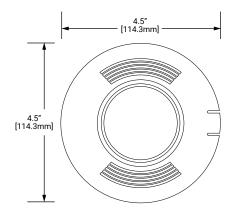


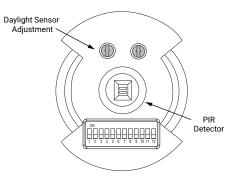
Top Product Features

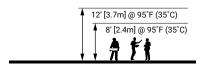
- MicroSet self-adjusting Time Delay and sensitivity
- Optional built-in light level sensor
- · Optional BAS/HVAC isolated relay
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- Selectable Walk-Through Mode
- · Dual Relay control

Dimensional and Mounting Details

Scale or Mounting Height











Order Information

Catalog Number

Catalog Number	Maximum Room Size	Field of View	Features
OAC-P-0500-R	500 sq. ft.	360°	w/ BAS Relay & Daylight Sensor
OAC-P-0500	500 sq. ft.	360°	
OAC-P-1500-R	1,500 sq. ft.	360°	w/ BAS Relay & Daylight Sensor
OAC-P-1500	1,500 sq. ft.	360°	

Product Specifications

Technology

· Passive Infrared (PIR)

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

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 10mA 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

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 and 1,500 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

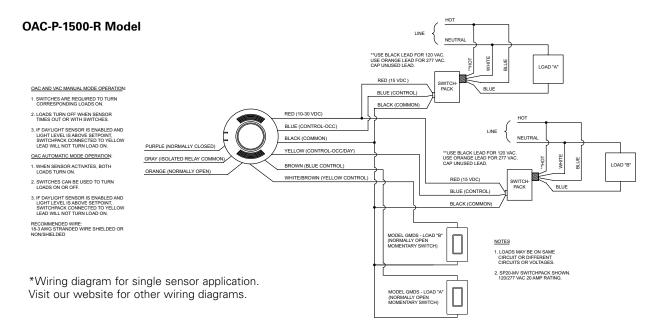
Overview

The MicroSet Passive Infrared Low Voltage Occupancy Sensing Ceiling Sensor is a motion sensing lighting control that is used for energy savings and convenience.

The sensor is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights ON. These sensors have multi-segmented lenses. For units to sense motion, the person must cross between two segments. The distance between segments increases the farther you are from the sensor, so motion has to be larger the farther you are from the unit. PIR sensors are considered line-of sight sensors, meaning that the sensor must be able to have a direct line-of-sight to the person making the motion. The sensor includes self-adaptive technology that continuously self-adjusts sensitivity and Time Delay in real-time, maximizing the potential energy savings that are available in the particular application. 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. The MicroSet Passive Infrared Low Voltage Ceiling Sensor has an ambient light level sensor. When enabled, the daylighting feature (-R units only) prevents lights from turning ON when the room is adequately illuminated by natural light.



Wiring Diagrams



Controls

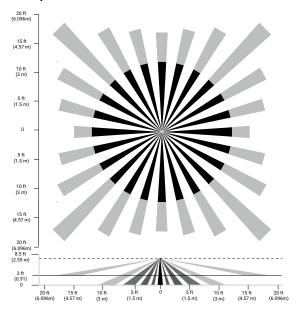
DIP Switch Legend

	Time Delay		Not	Not Used		sitivity	Walk-Through Mode		LEDs		Override		Not Used	Daylighting	Bathroom Mode		Relay Swap	
DIP Switch	1	2	3	4		5		6		7		8	9	10	1.		12	
Auto*	-	-			Full	~	Disable	_	Enable	_	Disable	_		Relay 2 ▼	Disable	~	Disable	_
5 Minutes	•	_			50%	_	Enable	_	Disable	_	Enable	_		Relay 1 & 2 ▲	Enable	_	Enable	_
15 Minutes	_	▼												(DMV model only) (DMV mo	del only)	(DMV mod	el onl
30 Minutes	_	_															•	
node mode										PIR De								

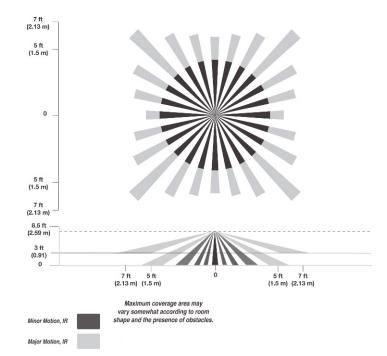


Field of View

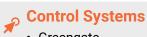
OAC-P-1500-R 1500 sq. ft.



OAC-P-0500-R 500 sq. ft.



Recommended Mounting Height: 8 to 12 ft



Greengate

