

# OAC-P – MicroSet PIR Low Voltage Ceiling Sensor

Catalog#	Prepared by					
Project	Date					
Comments	Туре					

### **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.

### **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











### **Specifications**

Technology	Passive Infrared (PIR)							
Power	Input  10-30 VDC from Greengate Switchpack or Greengate system  Maximum current needed is 25mA per sensor  Output							
Requirements								
	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							
Time Delays	Self-adjustable, 15 seconds/test (10 minutes Auto) or Selectable 5, 15, 30 minutes or Zero Time Delay							
Coverage	500 & 1,500 sq. ft.							
Light Level Sensing (-R Models)	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	ing 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							
Standards	FCC Compliant cULus Listed RoHS Compliant ROHS							

### **Description/Operation**

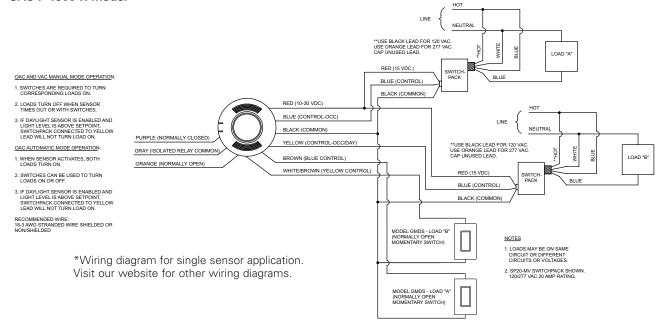
The sensor is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights ON. These sensors have multi-segmented lenses. For units to sense motion, the person must cross between two segments. The distance between segments 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.

## **Applications**

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

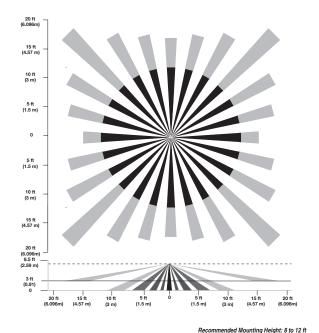
# **Wiring Diagrams**

### OAC-P-1500-R Model

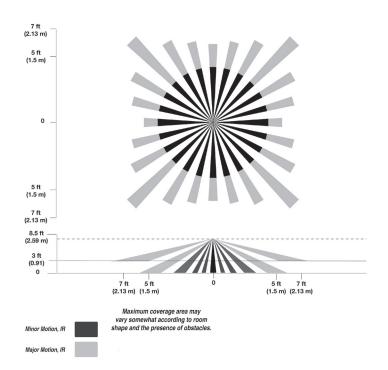


### Coverage

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



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

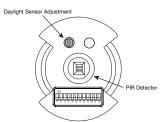


### **Controls**

### **DIP Switch Legend**

		Time [	Delay			ation		PIR Sen	sitivity	Walk-Throu	gh Mode	LED	s	Overrio	de	Swee	p	Full/Half Logic		HVAC/Tracking		Zero Time Delay	
				Relay '	1	Relay	2																
DIP Swit	ch	1	2		3		4		5		6		7		8		9	-	0	11		12	
Auto*		•	•	Auto	•	Auto	•	Full	•	Disable	•	Enable	•	Disable	•	Disable	•	Full	•	Disable	•	Disable	•
5 Minute	es	•	_	Manual	_	Manual	_	50%	_	Enable	_	Disable	_	Enable	_	Enable	_	Half .	_	Enable	_	Enable	_
15 Minu	tes	_	•	(-R model	only)	(-R model	only)										(-R model only) (-R model only)						
30 Minut	es	_	_	,		•												(	.,	•	,		

Default = [



# **Ordering**

Catalog #	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°	

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