

# OAWC-P - Passive Infrared Wall/Corner Sensor

Catalog#	Prepared by					
Project	Date					
Comments	Туре					



### **Overview**

The Passive Infrared Low Voltage Occupancy Sensing Wall/Corner sensor is a motion sensing lighting control that is used for energy savings and convenience.

#### **Features**

- Self-Adjusting time delay and sensitivity
- Optional built-in light level sensor
- Optional BAS/HVAC isolated relay
- NEMA WD7 Guide robotic method utilized to verify coverage
- Manual On feature for use with 1 or 2 momentary switches controlling 1 or more Switchpacks (GMD switch)
- Selectable Walk-Through Mode









# **Specifications**

Technology	Passive Infrared (PIR)						
Power	Input						
Requirements	0-30 VDC from Greengate Switchpack or Greengate System						
	Maximum current needed is 25 mA per sensor						
	Output						
	Open collector output to switch up to ten Greengate Switchpacks						
	Isolated Form C Relay in (-R models)						
	Isolated Form C Relay Ratings: 1A 30 VDC/VAC						
Time Delays	Self-Adjusting, 15 seconds/test, 5, 10, 15, 30 minutes						
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	4.4"H x 3.4"W x 2"D (112mm x 86.4mm x 50.8mm)						
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						
Standards	FCC Compliant cULus Listed RoHS Compliant ROHS						

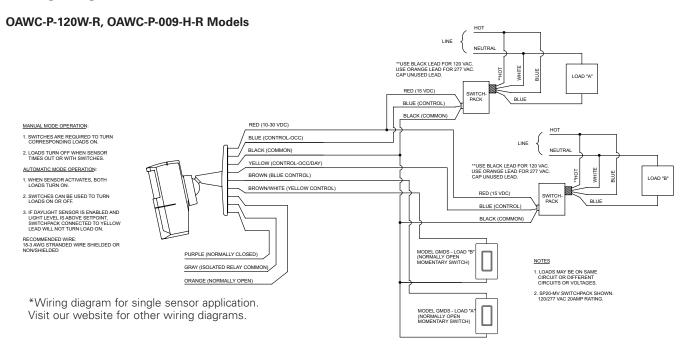
## **Description/Operation**

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, the lights are turned ON by activating a momentary switch (model # GMDS-\*) that is connected to the sensor. When used with 2 level lighting (-R model only), Bi-level Automatic On can be achieved which allows Zone 1 to come on automatically upon occupancy. Zone 2 does not come on unless the occupant presses the optional momentary switch. When enabled, the daylighting feature (-R models only) prevents lights from turning ON when the room is adequately illuminated by natural light.

## **Applications**

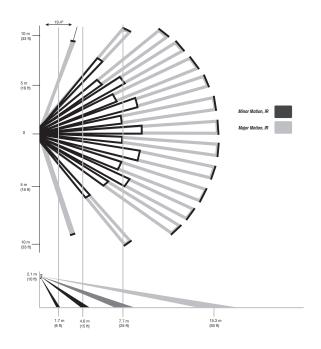
- Offices
- Conference Rooms
- Storage Areas
- Common Areas
- Other Indoor Office
- Aisles/Hallways

# **Wiring Diagrams**

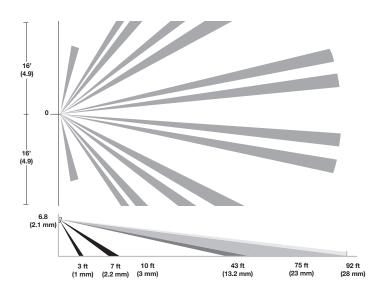


## Coverage

## 1200 Sq. ft coverage



## 90 linear ft coverage



## **Controls**

#### DIP Switch Legend

		Time Delay		Activation Activation		PIR Sensitivity		Walk-Through Mode		LEDs		Override		Lighting Sweep		Daylighting Mode			
DIP Switch				Power Pac	k One	Power Pag	ck Two												
	]	1	2		3		4		5		6		7		8		9		10
	Auto*	•	▼	Auto	•	Auto	•	Full	▼	Disab <b>l</b> e	•	Enable	▼	Disable	•	Disab <b>l</b> e	•	Half	▼
	5 Minutes	▼	<b>A</b>	Manual	•	Manual	•	50%	<b>A</b>	Enable	<b>A</b>	Disable	<b>A</b>	Enable	<b>A</b>	Enable	<b>A</b>	Full	<b>A</b>
	15 Minutes	•	▼	(-R model only)					(-R model only								el only)		
	30 Minutes	<b>A</b>	•																
	Self-Adjusts to 10 min. user mode			•						16 r 30 r	ny 1 2	etivation PIR PIR So%	5 Overrid Disable Enable						

**Ordering** 

Catalog #	Coverage	Field of View	Features
OAWC-P-120W-R	1,200 sq. ft.	Wide Angle, 120°	w/ BAS Relay and Daylight Sensor
OAWC-P-009L-H-R	90 linear ft.	180°	w/ BAS Relay and Daylight Sensor
OAWC-P-120W	1,200 sq. ft.	Wide Angle, 120°	
OAWC-P-009L-H	90 linear ft.	180°	



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

