

OAWC-P, Passive Infrared Wall/Corner Sensor



- 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 patterns
- 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 Requirements: 10-30 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 in (-R models):

0 to 300 foot-candles

Operating Environment:

- Temperature: 32°F to 104°F (0°C - 40°C)
- 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" x 3.4" x 2" (112mm x 86.4mm x 50.8mm)

Mounting: Mounts directly to ceiling tile, to a 4" square box and round mud ring or to a 4" octagon box

LED Indicators: Red LED for PIR detection

FCC Compliant

cULus Listed

RoHS Compliant



Catalog #	Type
Project	
Comments	
Prepared by	Date



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.

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.

Application

offices	storage areas	other indoor office
conference rooms	common areas	aisles/hallways

Ordering

Catalog #	Coverage	Field of View	Features
OAWC-P-120W-R	1200 sq. ft.	wide angle, 120°	w/BAS relay & Daylight Sensor
OAWC-P-009L-H-R	90 linear. ft.	180°	w/BAS relay & Daylight Sensor
OAWC-P-120W	1200 sq. ft.	wide angle, 120°	
OAWC-P-009L-H	90 linear. ft.	180°	

OAWC-P-120W-R, OAWC-P-009-H-R Models

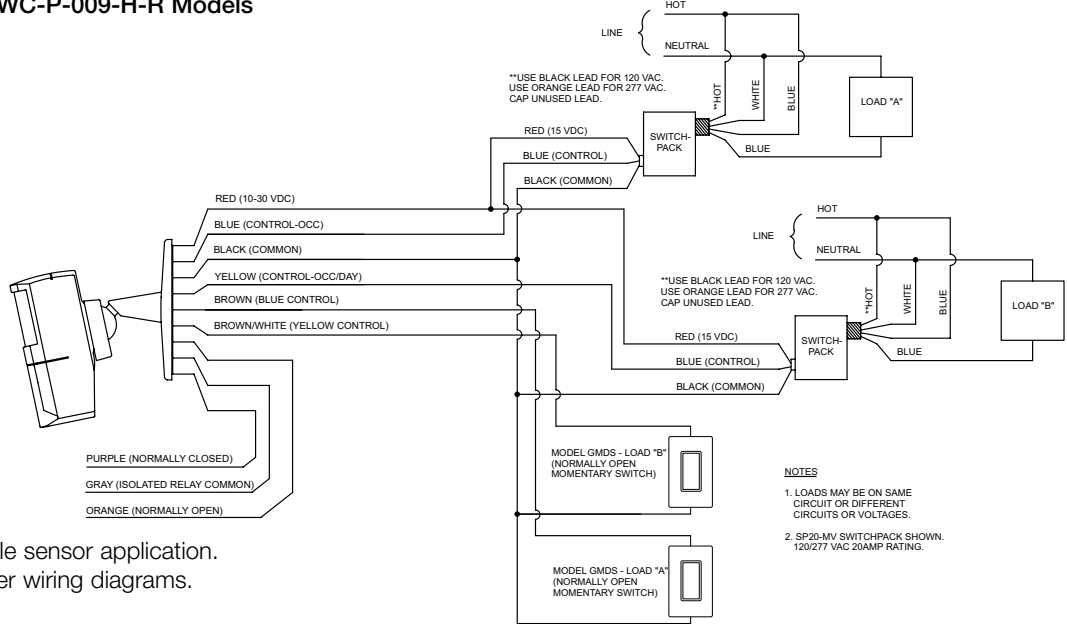
MANUAL MODE OPERATION:

1. SWITCHES ARE REQUIRED TO TURN CORRESPONDING LOADS ON.
2. LOADS TURN OFF WHEN SENSOR TIMES OUT OR WITH SWITCHES.

AUTOMATIC MODE OPERATION:

1. WHEN SENSOR ACTIVATES, BOTH LOADS TURN ON.
2. SWITCHES CAN BE USED TO TURN LOADS ON OR OFF.
3. IF DAYLIGHT SENSOR IS ENABLED AND LIGHT LEVEL IS ABOVE SETPOINT, SWITCHPACK CONNECTED TO YELLOW LEAD WILL NOT TURN LOAD ON.

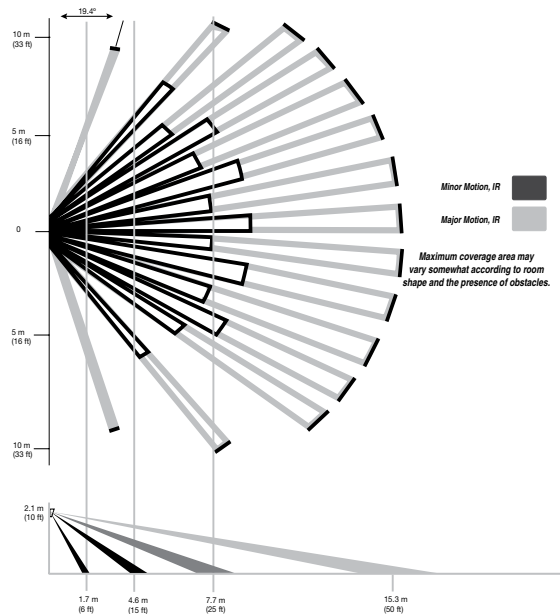
RECOMMENDED WIRE:
18-3 AWG STRANDED WIRE SHIELDED OR NONSHIELDED



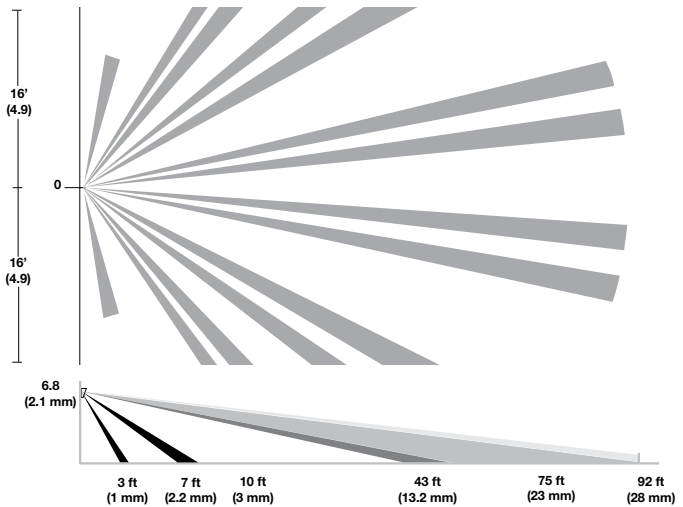
*Wiring diagram for single sensor application.
Visit our website for other wiring diagrams.

Coverage

1200 Sq. ft coverage



90 linear ft coverage



Controls

DIP Switch Legend

DIP Switch	Time Delay		Activation		PIR Sensitivity	Walk-Through Mode	LEDs	Override	Lighting Sweep	Daylighting Mode
	1	2	Power Pack One	Power Pack Two						
Auto*	▼	▼	Auto ▼	Auto ▼	Full ▼	Disable ▼	Enable ▼	Disable ▼	Disable ▼	Half ▼
5 Minutes	▲	▲	Manual ▲	Manual ▲	50% ▲	Enable ▲	Disable ▲	Enable ▲	Enable ▲	Full ▲
15 Minutes	▼	▼								
30 Minutes	▲	▲								

(-R model only)

*Self-Adjusts to 10 min. user mode

Default =

