

OAWC-DT – Dual Technology Wall/Corner Sensor

Catalog#	Prepared by
Project	Date
Comments	Туре



Overview

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

Features

- MicroSet 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
- Selectable Walk-Through Mode





OAWC-DT – DualTechnology Wall/Corner Sensor

Specifications

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Technology	Passive Infrared (PIR) and Ultrasonic (US)			
Power	Input 0-30 VDC from Greengate Switchpack or Greengate System			
Requirements				
	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; Green LED for Ultrasonic detection			
Standards	FCC Compliant cULus Listed RoHS Compliant			

Description/Operation

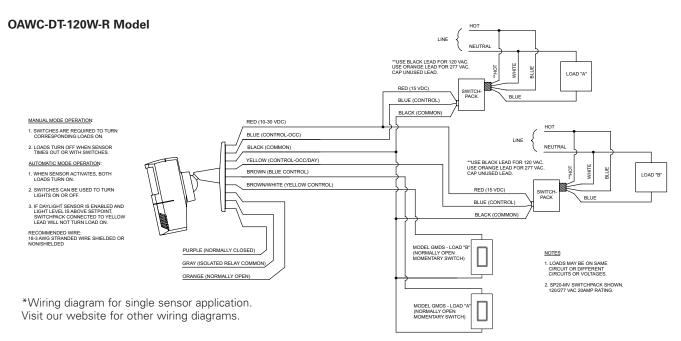
The OAWC-DT combines Ultrasonic (US) and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough application without the threat of false triggers. PIR is used to turn the lights ON and then either or both technologies are used to keep the lights ON. The sensor includes MicroSet self-adaptive technology that continuously self-adjusts sensitivity and time delay in real-time, maximizing the potential energy savings that are available in 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

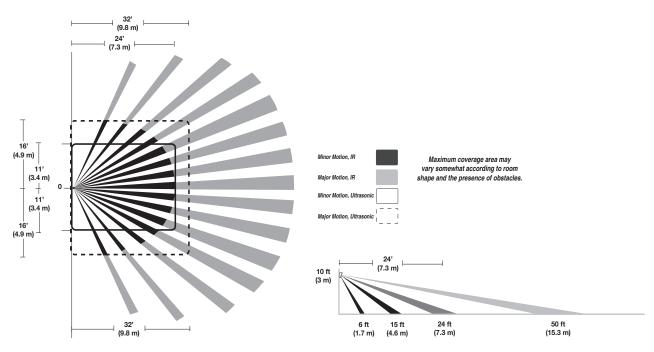
Classrooms

- Conference Rooms
- Large Offices
- Common Areas
- Computer Rooms
- Break Rooms

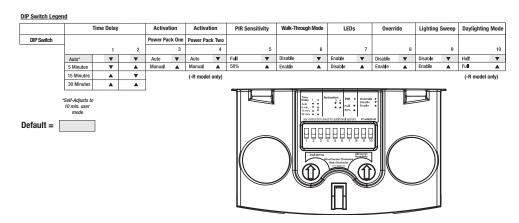
Wiring Diagrams



Coverage



Controls



Ordering

Catalog #	Coverage	Field of View	Features
OAWC -DT-120W-R	1,200 sq. ft.	Wide Angle, 120°	w/ BAS Relay and Daylight Sensor
OAWC-DT-120W	1,200 sq. ft.	Wide Angle, 120°	

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

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