| Project | Catalog # | Туре | |
|-------------|-----------|------|--|
| Prepared by | Notes | Date | |



Greengate

OAWC-DT-120W Dual Technology

Wall / Corner Sensor

Typical Applications

Classrooms • Conference Rooms • Large Offices • Common Areas • Computer Rooms • Break Rooms

Interactive Menu

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

Product Certification







Product Features







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.

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.

Top Product 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



Greengate OAWC-DT-120W

Order Information

Catalog Number

| Catalog Number | Coverage | Field of View | Features | | | | | |
|----------------|---------------|-------------------|--------------------------------|--|--|--|--|--|
| OAWC-DT-120W-R | 1,200 sq. ft. | Wide Angle (120°) | w/ BAS Relay & Daylight Sensor | | | | | |
| OAWC-DT-120W | 1,200 sq. ft. | Wide Angle (120°) | | | | | | |

Product Specifications

Technology

· Passive Infrared (PIR) and Ultrasonic (US)

Mechanica

Size: 4.4"H x 3.4"W x 2"D (112mm x 86.4mm x50.8mm)

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
 - 0-30 VDC from Greengate Switchpack or Greengate System
 - · Maximum current needed is 25mA 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

Hardware Specifications

LED Indicators:

· Red LED for PIR detection; Green LED for Ultrasonic detection

Controls and Performance

Time delays:

· Self-Adjusting, 15 seconds/test, 5, 10, 15, 30 minutes

Light sensing level (-R Models):

· 0 to 300 foot candles

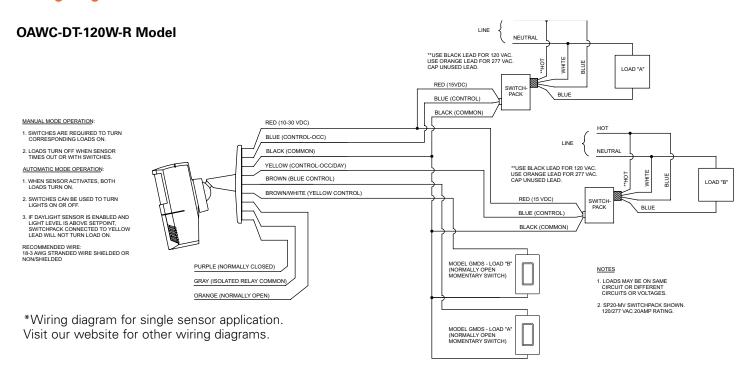
Standards/Ratings

- · cULus Listed Energy Management Equipment (UL916)
- FCC Compliant
- · RoHS Compliant

Warranty

Five year warranty standard

Wiring Diagrams



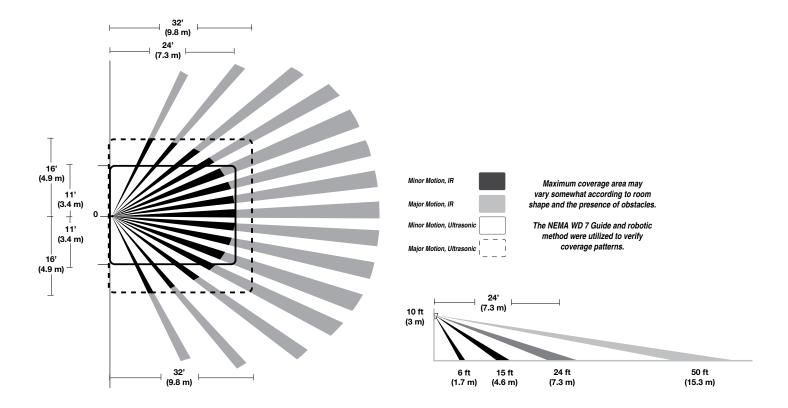
Greengate OAWC-DT-120W

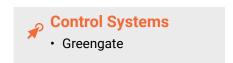
Controls

DIP Switch Legend

| | 1 | Time Delay | | | Activation | | Activation | | PIR Sensitivity | | Walk-Through Mode | | LEDs | | Override | | Lighting Sweep | | Daylighting Mode | |
|-------------|--|------------|--|----------|------------|----------|------------|----------|-----------------|----------|-------------------------------|----------|---------|-------------------|----------|----------|------------------|----------|------------------|-------|
| DIP Switch | | | | | Power Pag | ck One | Power Pac | k Two | | | | | | | | | | | | |
| | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 |
| | Auto* | • | | ▼ | Auto | ▼ | Auto | ▼ | Full | ▼ | Disable | ▼ | Enable | • | Disable | • | Disab l e | ▼ | Half | • |
| | 5 Minutes | ▼ | | A | Manual | A | Manual | A | 50% | A | Enable | A | Disable | A | Enable | A | Enable | A | Full | • |
| | 15 Minutes | A | | ▼ | | | (-R model | only) | | | | | | | | | | | (-R mode | only) |
| | 30 Minutes | • | | • | | | | | | | | | | | | | | | | |
| Default = [| *Self-Adjusts to 10 min. user mode |] | | | | | | | | | Auto 5 mir 15 m 30 m | n. A Y | | Disable Enable | | | | | | |

Field of View







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