

Project		Catalog #		Type	
Prepared by		Notes		Date	



## Greengate

### ONW-D-1001 Wall Switch Sensor with Ground Required

Dual Tech, Single Pole, 120/277/347 VAC  
Wall Switch Occupancy Sensor  
(Ground Required)

#### Typical Applications

Office • Small Conference Rooms • Lunch/Break Rooms • Classrooms • Restrooms (1-2 Stalls) • Lounges • Waiting Rooms • Closets • Storage Areas

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- Product Warranty

#### Product Certification



#### Product Features



## Overview

The Dual Technology Single Level Occupancy Sensing Wall Switch is a motion sensing lighting control and conventional wall switch all-in-one that is used to for energy savings and convenience. It does not require a neutral wire for installation making it ideal for retrofit applications.

The ONW-D-1001-MV 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 applications 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. In Automatic On Mode, the lights turn ON automatically when a person enters the room. In Manual On Mode, the lights are turned ON by pressing the universally recognized light icon pushbutton. 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.

## Top Product Features

- Air-gap switch ensures no leakage current to load
- Selectable built-in light level sensor
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- LED Rated

## Order Information

SAMPLE ORDER NUMBER: **ONW-D-1001-MV-W**

One single gang wallplate included.

### Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
<b>ONW-D-1001-MV-*</b> (*-W, V, LA, G, B, R)	Incandescent: 0-800W @ 120V Fluorescent: 0-1200W @ 120V Fluorescent: 0-2700W @ 277V Max Load/Relay	180°; 1000 sq. ft.	120/277 VAC, 50/60 Hz	W=White, V=Ivory, LA=Light Almond, G=Gray, B=Black, R=Red
				<b>Notes</b> Not all colors are available in stock and some color options may have extended lead times.

SAMPLE ORDER NUMBER: **ONW-D-1001-347-W**

One single gang wallplate included. Wallplate not included with 347 VAC Model.

### Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
<b>ONW-D-1001-347-*</b> (*-W, V, LA, G, B, R)	Incandescent: 0-1500W @ 347V Fluorescent: 0-1500W @ 347V Max Load/Relay	180°; 1000 sq. ft.	347 VAC, 50/60 Hz	W=White, V=Ivory, LA=Light Almond, G=Gray, B=Black, R=Red
				<b>Notes</b> Not all colors are available in stock and some color options may have extended lead times.

## Product Specifications

### Technology

- Passive Infrared (PIR) and Ultrasonic (US) technology

### Mechanical

**Mounting Plate/Strap Dimensions:** 4.195" H x 1.732" W (106.55mm x 44mm)

**Mounting Plate/Strap Dimensions: ONW-D-1001-347:** 4.35" H x 1.732" W (110.49mm x 44mm)

**Product Housing Dimensions:** 2.618" H x 1.752" W x 1.9" D (66.5mm x 44.5mm x 48.26mm)

### 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. ABS resin complies with UL 94V-0

**Mounting:** Fits in a standard 3.5" deep back box Can be mounted in multiple gang back box Refer to NEC box calculation for properly sized mounting box

### Electrical

#### Electrical ratings (per relay):

- 120 VAC
  - Incandescent / Tungsten max load: 6.7 amps, 800W, 50/60 Hz
  - Fluorescent / Ballast max load: 10 amps, 1200W, 50/60 Hz
  - Electronic Ballast (LED): 3A
  - Motor Load: 1/4 HP @ 125 VAC
- 277VAC
  - Fluorescent / Ballast max load: 9.8 amps, 2700W, 50/60 Hz
  - Electronic Ballast (LED): 3A
- 347VAC
  - Fluorescent / Ballast max load: 4.3 amps, 1500W, 50/60 Hz
  - Electronic Ballast (LED): 3A

### Ballast compatibility:

- LED loads
- Magnetic and Electronic ballasts

### Hardware Specifications

#### LED Indicators:

- Red LED = PIR detection
- Green LED = Ultrasonic detection

### Controls and Performance

#### Time delays:

- Self adjusting 15 seconds/test (10 min. Auto)
- Selectable 5, 15, 30 minutes

#### Coverage:

- Major motion: 36' x 30'
- Minor motion: 20' x 16'

#### Light sensing level:

- 0 to 200 foot candles

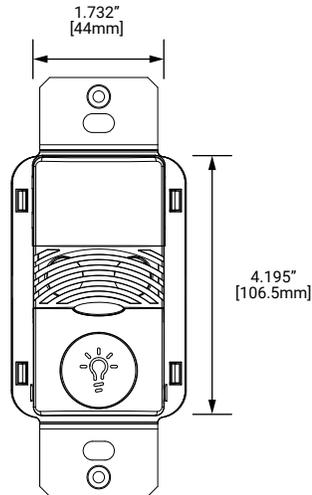
### Standards/Ratings

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

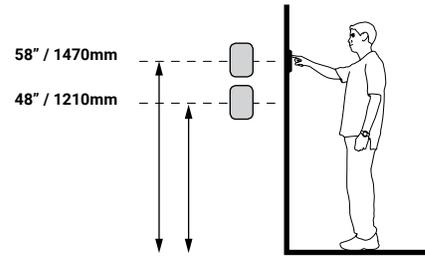
### Warranty

Five year warranty standard

## Dimensional and Mounting Details

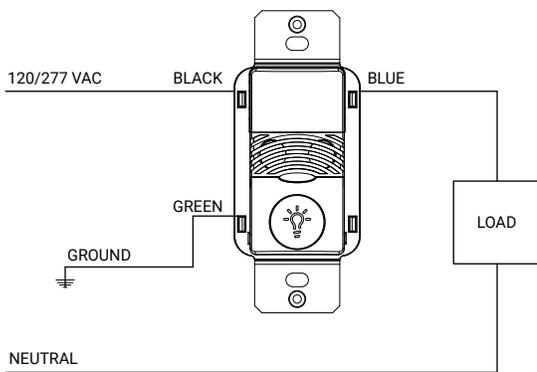


## Scale or Mounting Height

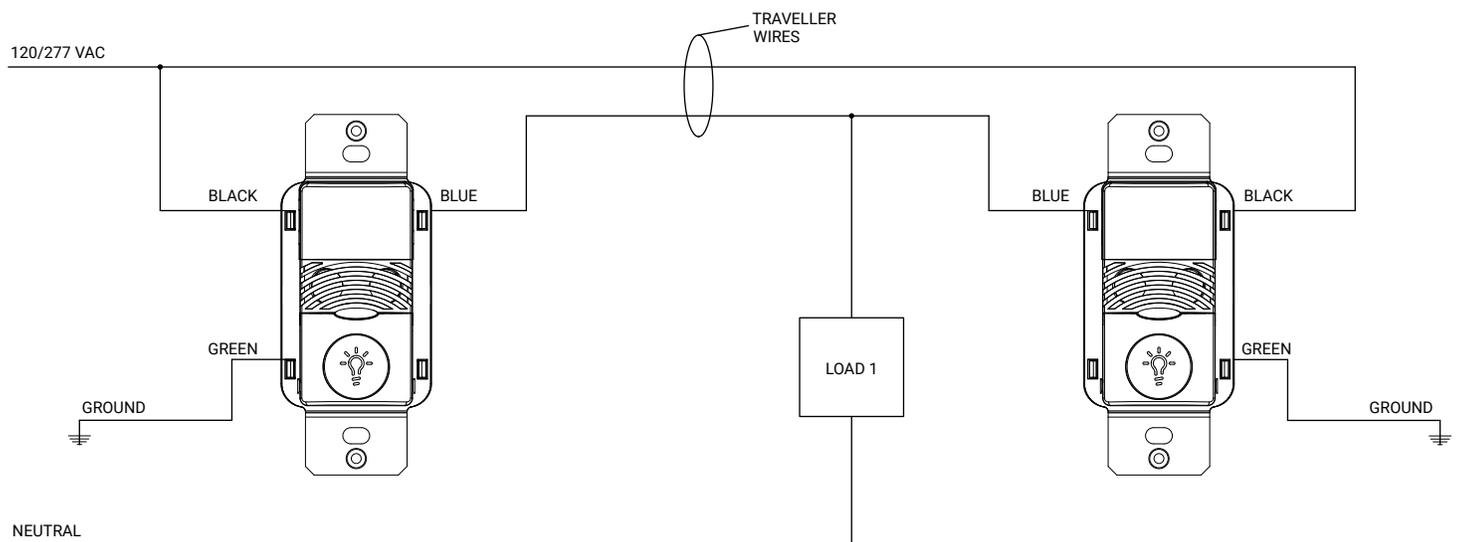


## Wiring Diagrams

### Single Level Switching - Single Circuit

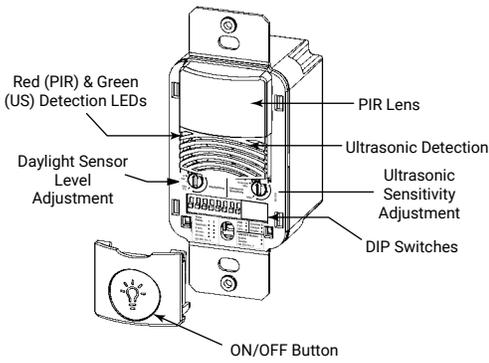


**Three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out.**



**\* For 347 VAC wiring diagrams refer to Installation Instructions**

## Controls

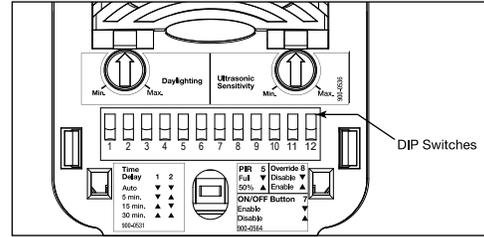


**DIP Switch Legend**

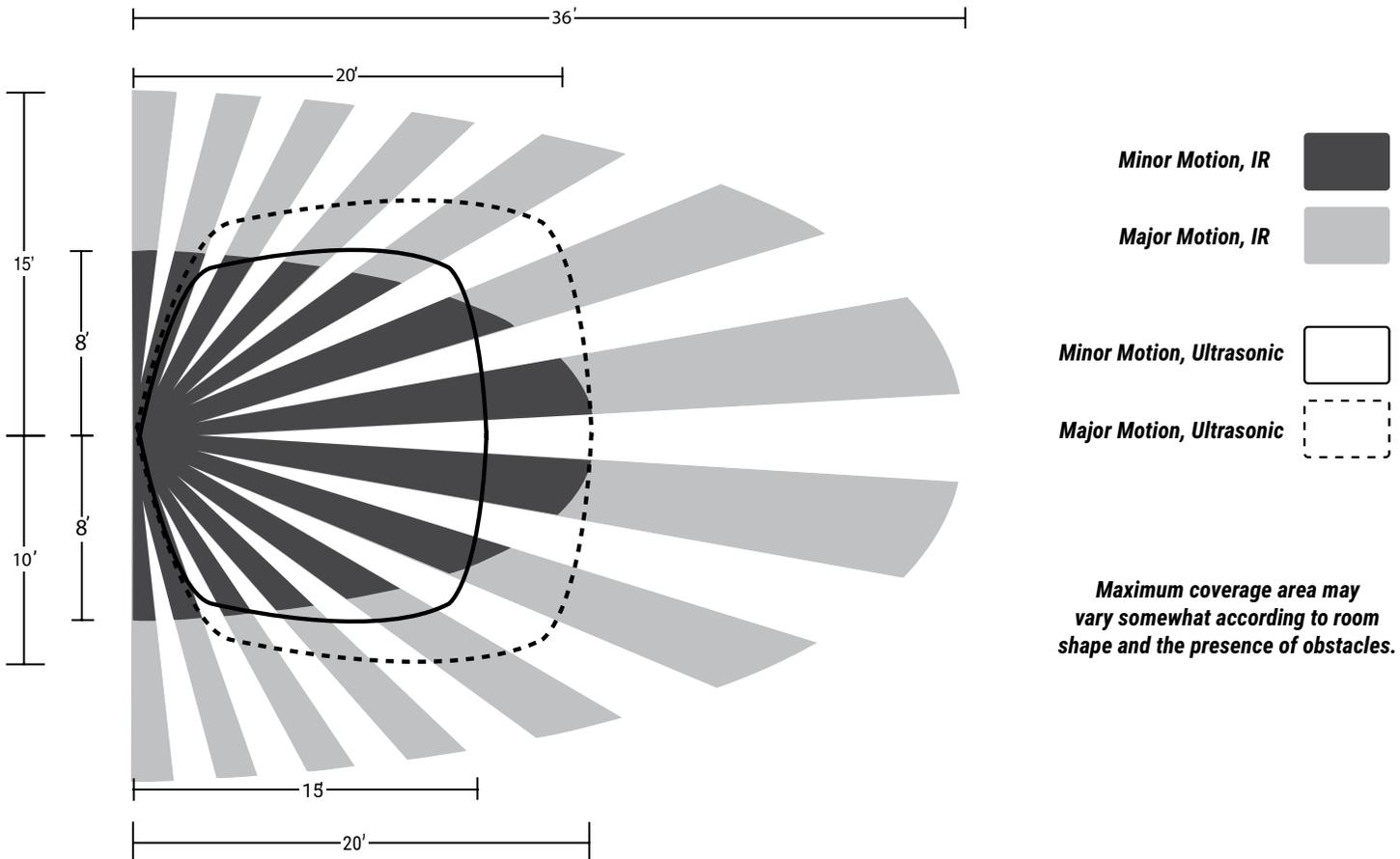
DIP Switch	Time Delay		Activation		PIR Sensitivity		Walk-Through Mode		ON/OFF Button		Override		Not Used		Maintain Lights On		Not Used		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
15 Sec Test/Auto*	▼	▼	Auto	▼	Full	▼	Disable	▼	Enable	▼	Disable	▼					Either	▼	
5 Minutes	▼	▲	Manual	▲	50%	▲	Enable	▲	Disable	▲	Enable	▲					Both	▲	
15 Minutes	▲	▼																	
30 Minutes	▲	▲																	

\*Self-Adjusts to 10 min. user mode

Default =



## Field of View



**Control Systems**

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