

Project		Catalog #		Type	
Prepared by		Notes		Date	



# Greengate

## ONW-P-NeoSwitch

Passive Infrared Low Voltage Occupancy Sensing Wall Switch Sensor

### Typical Applications

Private Offices • Small Conference Rooms • Lunch/Break Rooms • Small Classrooms • Small Restrooms (no stalls) • Small Lounges • Small Waiting Rooms • Small Closets • Small Storage Areas

### Interactive Menu

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

### Product Certification



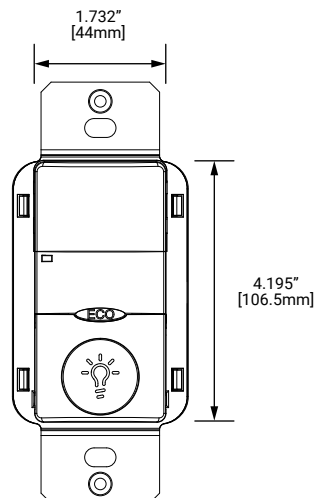
### Product Features



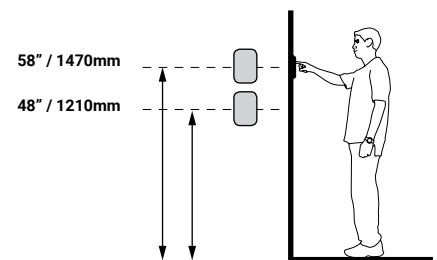
### Top Product Features

- Low voltage sensors utilize an isolated Form C relay that integrates directly with lighting control, building, and HVAC systems
- Low voltage switches do not require conduit in most markets thus lowering installation costs
- Selectable built-in light level sensor
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- Tracking/HVAC Mode

### Dimensional Details



### Scale or Mounting Height



[additional product diagrams](#)

## Order Information

SAMPLE ORDER NUMBER: **ONW-P-1001-SP-W**

One single gang wallplate included.

### Catalog Number

Catalog Number	Ratings	Coverage	Color
<b>ONW-P-1001-SP-*</b> (*-W, V, LA, G, B)	10-30 VDC Input with isolated Form C relay	180°; 1000 sq. ft.	W=White, V=Ivory, LV=Light Almond, G=Gray, B=Black
			<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)

### Mechanical

**Mounting Plate Dimensions:** 4.195" H x 1.732" W (106.55mm 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

#### Input:

- 10-30 VDC from Greengate Switchpack or Greengate system
- Maximum current needed is 25mA per sensor

#### Output:

- Open collector output can switch up to ten Greengate Switchpacks

### Hardware Specifications

#### LED Indicators:

- Red LED = PIR detection
- Green LED = acts as EcoMeter or night light locator

## Overview

The ONW-P-1001-SP 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. In Automatic On Mode, the lights turn ON 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. The EcoMeter provides a visual indicator of energy usage, increasing end user awareness and reminding individuals to take control of their lighting to maximize energy savings. HVAC mode allows the load connected to the Form C BAS relay to remain on when the lights are turned OFF manually. Applications may include keeping the room at a desired temperature while giving a presentation and the lights are OFF.

### Controls and Performance

#### Time delays:

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

#### Isolated Form C Relay Ratings:

- 1A 30 VDC/VAC

#### Coverage:

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

#### Light sensing level:

- 0 to 200 foot candles

#### Standards/Ratings

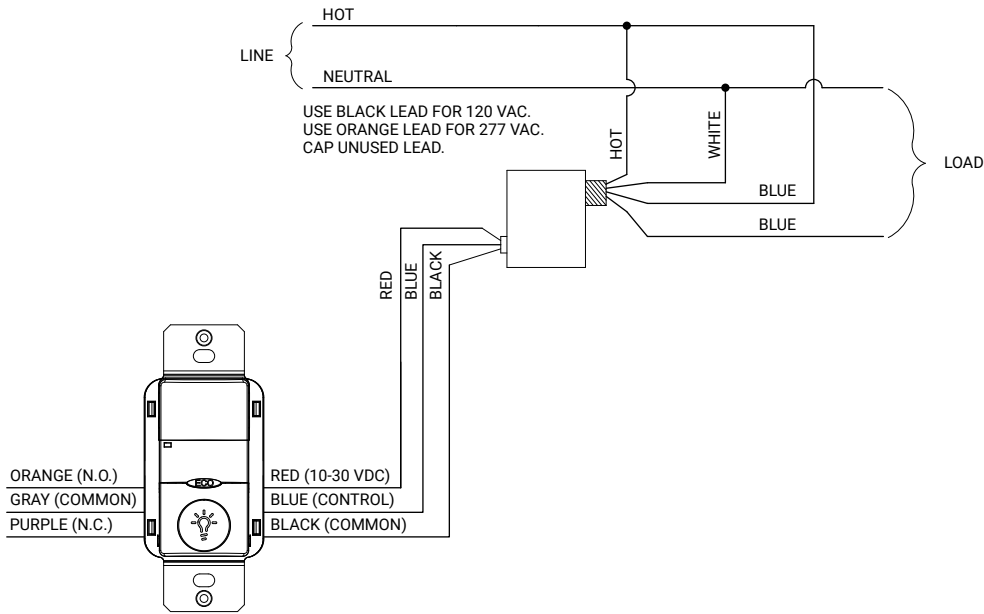
- cULus Listed
- FCC Compliant
- RoHS Compliant

#### Warranty

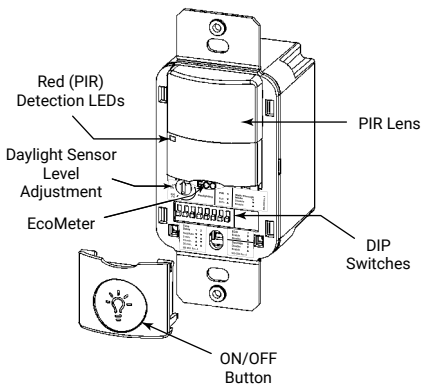
Five year warranty standard

## Wiring Diagrams

### Low Voltage Wiring Diagram



## Controls

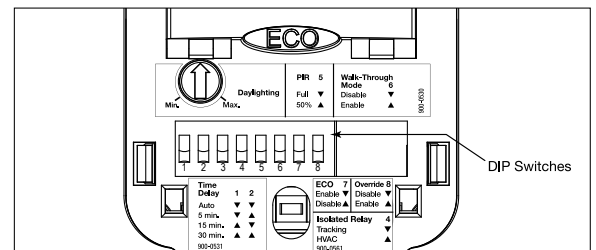


### DIP Switch Legend

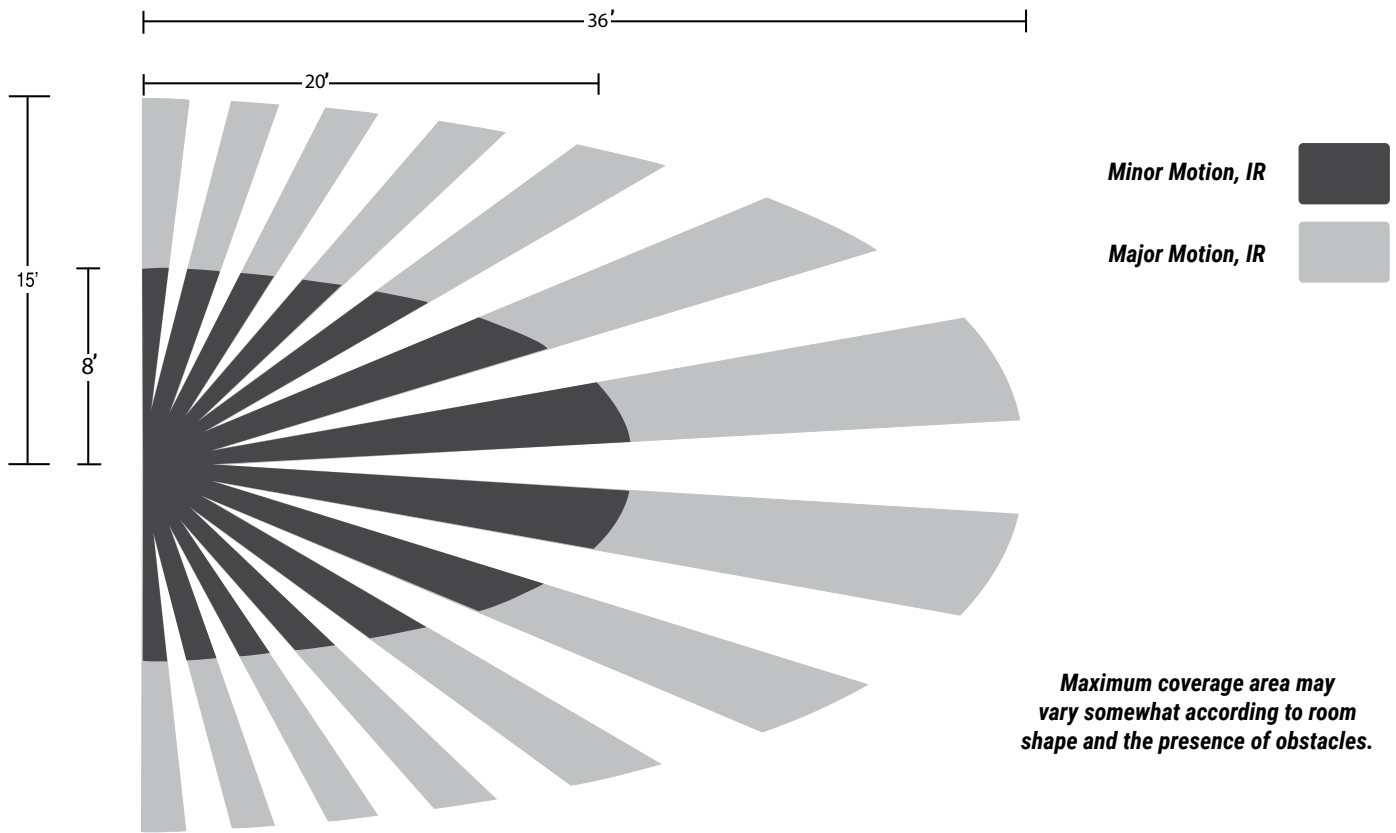
DIP Switch	Time Delay		Activation Relay	Isolated Relay	PIR Sensitivity	Walk-Through Mode	EcoMeter	Override
	1	2	3					
Auto*	▼	▼	Auto	▼	Full	Disable	Enable	Disable
5 Minutes	▼	▲	Manual	▲	50%	Enable	Disable	Enable
15 Minutes	▲	▼						
30 Minutes	▲	▲						

\*Self-Adjusts to 10 min. user mode

Default =



## Field of View



 **Control Systems**  
• Greengate