

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

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Product Certification



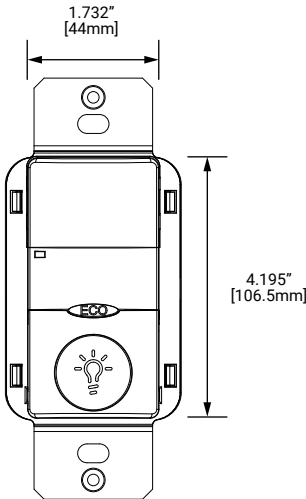
Product Features



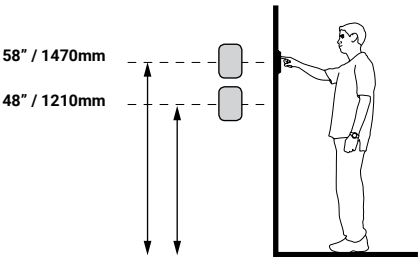
Top Product Features

- 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
ONW-P-1001-SP- * (*-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
			Notes 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

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

Warning

- This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Warranty

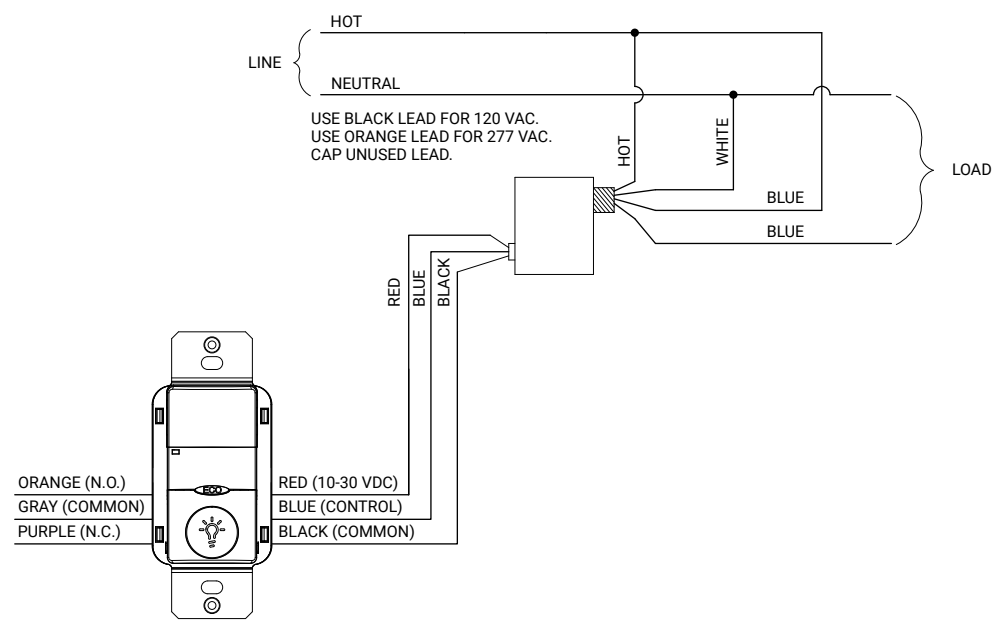
Five year warranty standard

Overview

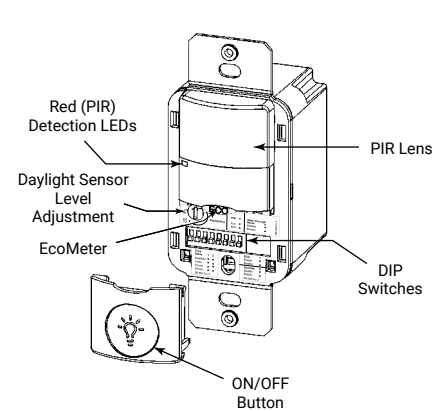
The ONW-P-1001-SP is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights on. These sensors have multi-segmented lenses. For units to sense motion, the person must cross between two segments. The distance between 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.

Wiring Diagrams

Low Voltage Wiring Diagram



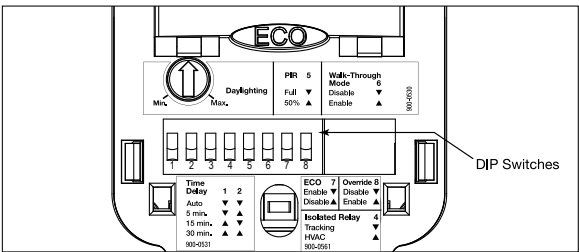
Controls



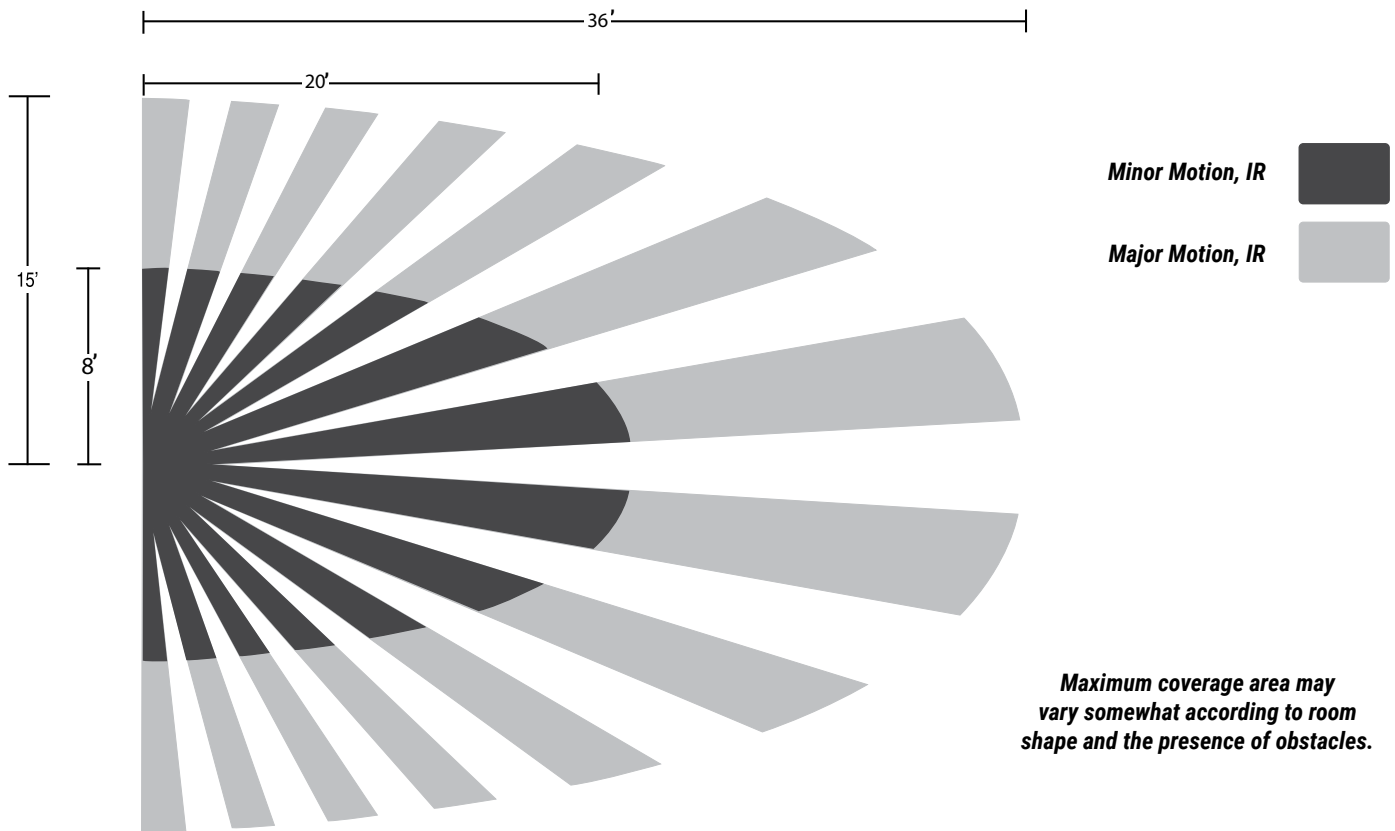
DIP Switch Legend

	Time Delay		Activation Relay 1	Isolated Relay	PIR Sensitivity	Walk-Through Mode	EcoMeter	Override
DIP Switch	1	2	3	4	5	6	7	8
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



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- **Never spray any fluids directly into the device.**
- **Use of ammonia-based or VOC cleaners on this device must be avoided.** Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- **Use a damp rag or single-use wipe** to avoid excess liquid penetrating the device.
- Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found in household cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes **cannot contain bleach, ammonia, highly alkaline or concentrated acids.**

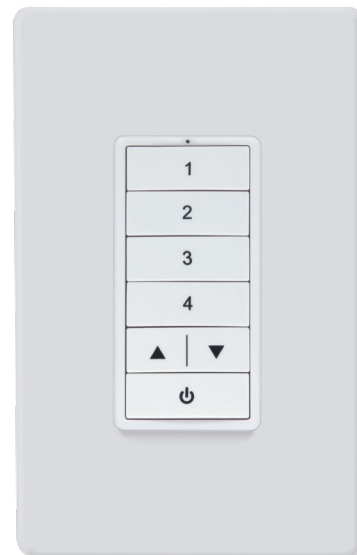


image for
reference only



WARNING

This product is not intended for use in applications involving the use of ammonia-based or VOC cleaners.

Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- **Never spray any fluids directly into the device.**
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.
- If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- Remove an excess liquid remaining on the device with a dry cloth or paper towel.