Project		Catalog #		Type	
Prepared by		Notes		Date	

Greengate

ONW-P-NeoSwitch

Passive Infrared/Single Level Wall Switch Sensor (Ground Required)

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

c(UL)us   RoHS COMPLIANT   FC

Product Features

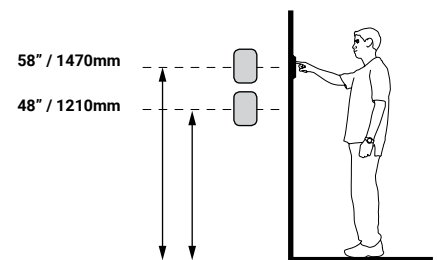PIR Activated   AUTO Self-Adjusting   California Title 20 Compliant

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

Dimensional Details

1.732"
[44mm]

4.195"
[106.5mm]

ECO
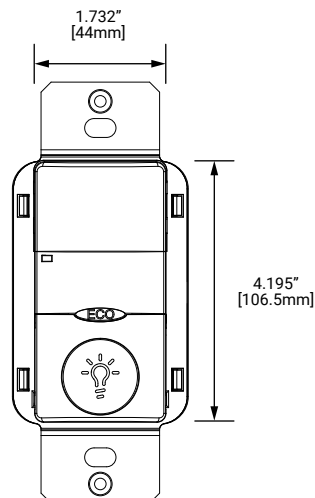
Scale or Mounting Height

58" / 1470mm

48" / 1210mm

additional product diagrams

Order Information

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

One single gang wallplate included.

Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
ONW-P-1001-MV- * (*-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, LV=Light Almond, G=Gray, B=Black, R=Red
				Notes Not all colors are available in stock and some color options may have extended lead times.

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

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

Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
ONW-P-1001-347- * (*-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, LV=Light Almond, G=Gray, B=Black, R=Red
				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)
Mounting Plate/Strap Dimensions: ONW-P-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:
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

347VAC
- Fluorescent / Ballast max load: 4.3 amps, 1500W, 50/60 Hz
- Electronic Ballast (LED): 3A

Ballast compatibilty:
- LED loads
- Magnetic and Electronic ballasts

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

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 Passive Infrared Single Level Occupancy Sensing Wall Switch is a motion sensing lighting control and conventional wall switch all-inone that is used for energy savings and convenience.
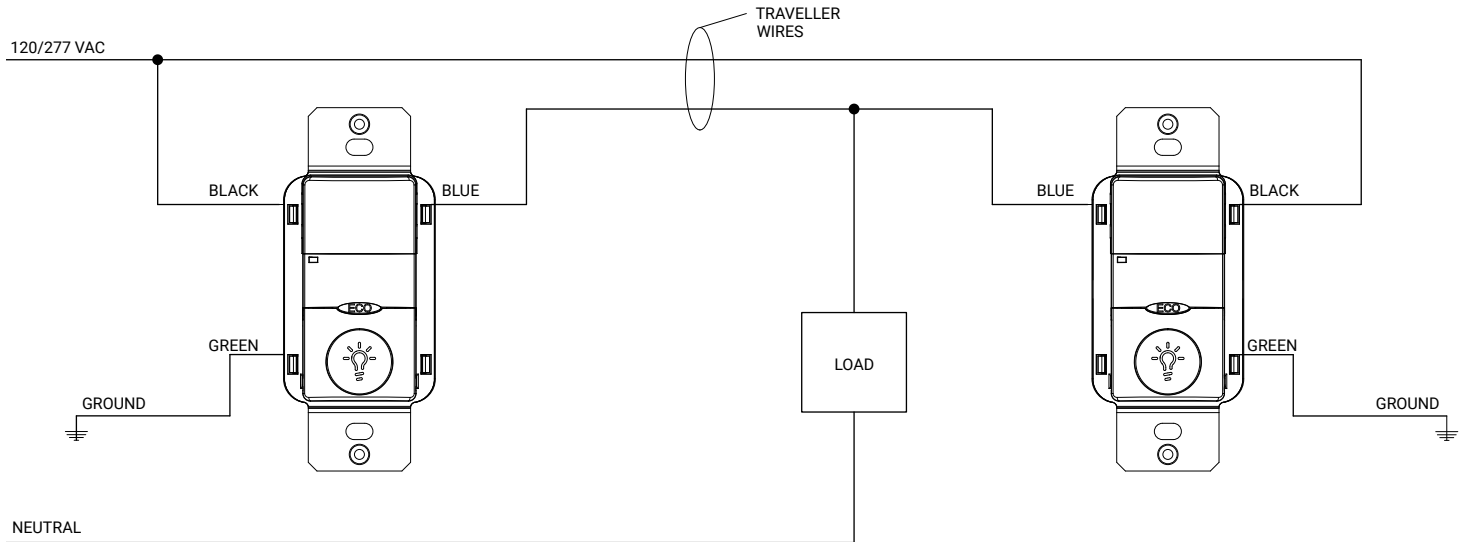
ONW-P-1001-MV is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights ON. These sensors have multisegmented lenses. For units to sense motion, the person must cross between two segments. The distance between 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.
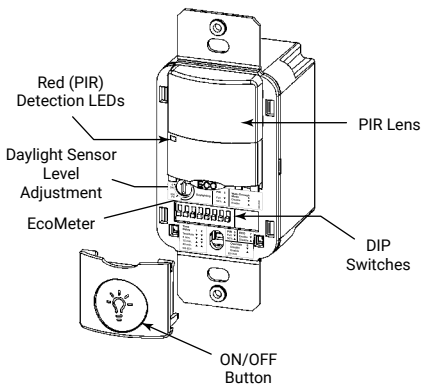
Wiring Diagrams

Single Level Switching

120/277 VAC — BLACK — BLUE — LOAD
GREEN
GROUND
NEUTRAL
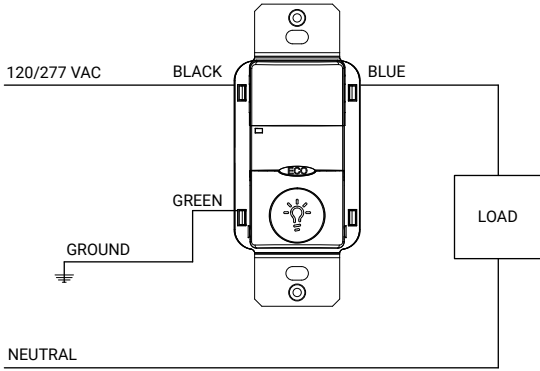
Three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out.
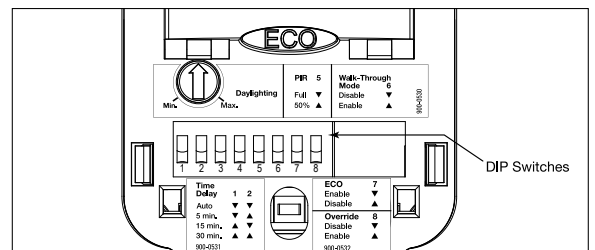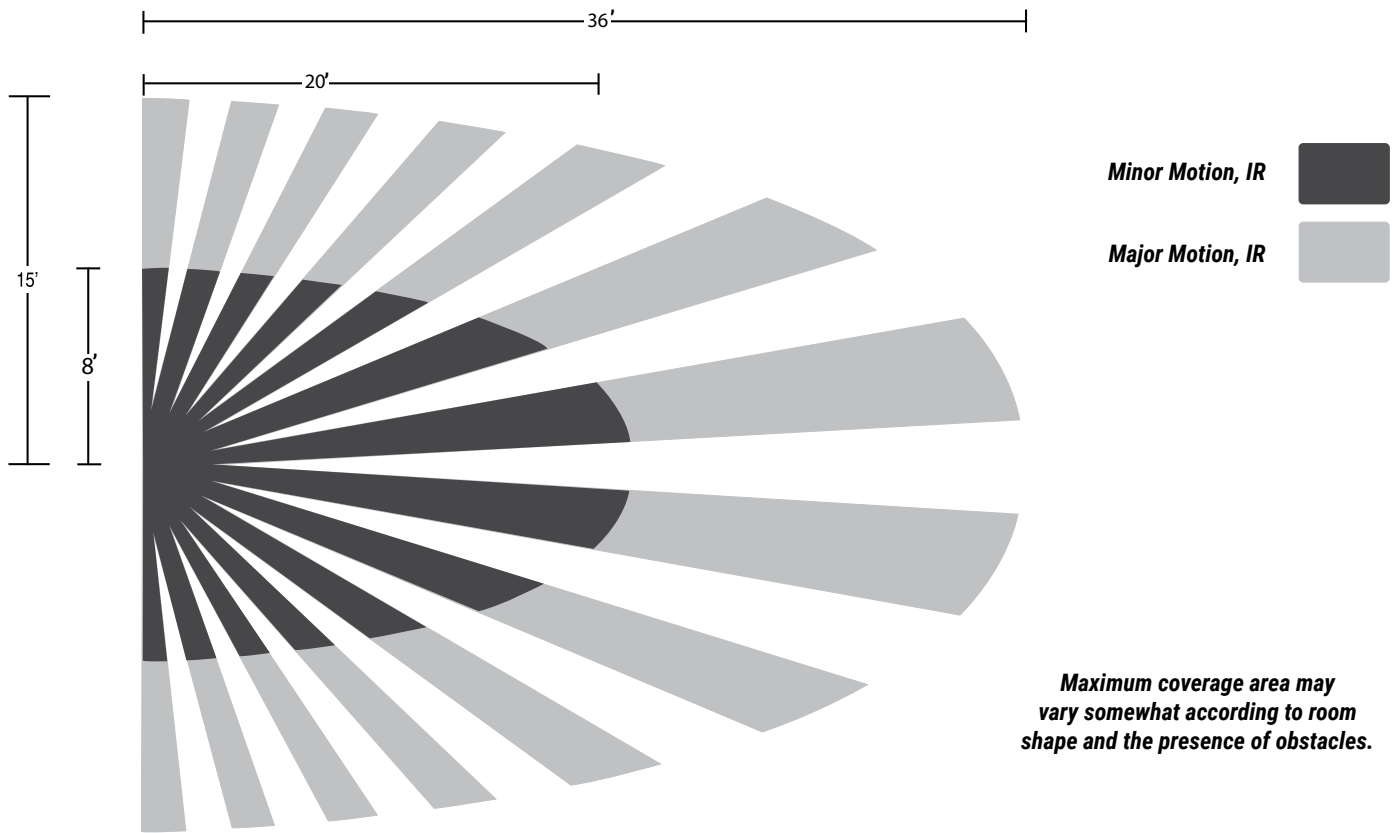

TRAVELLER WIRES

120/277 VAC

BLACK — BLUE — LOAD — BLUE — BLACK
GREEN — GREEN
GROUND — GROUND
NEUTRAL

Controls

Red (PIR) Detection LEDs
Daylight Sensor Level Adjustment
EcoMeter
PIR Lens
DIP Switches
ON/OFF Button

DIP Switch Legend

	Time Delay		Activation Relay 1	Not Used	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 =

DIP Switches

COOPER Lighting Solutions

Field of View

36'

20'

15'

8'

Minor Motion, IR

Major Motion, IR

*Maximum coverage area may
vary somewhat according to room
shape and the presence of obstacles.*

Control Systems
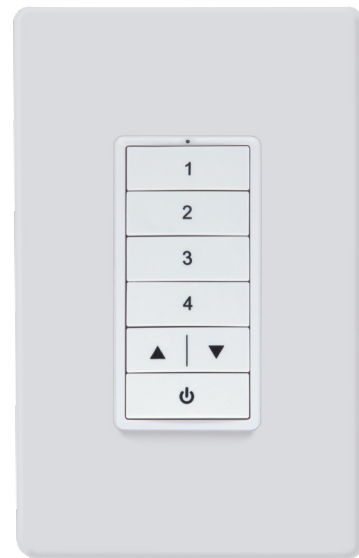- Greengate

image for reference only

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 inhousehold 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.**

⚠️ **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.

SA50317022

April 2024