

Project		Catalog #		Type	
Prepared by		Notes		Date	



Greengate

ONW-D-NeoSwitch

Dual Tech Low Voltage Wall Switch Sensor

Typical Applications

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

Product Certification



Product Features



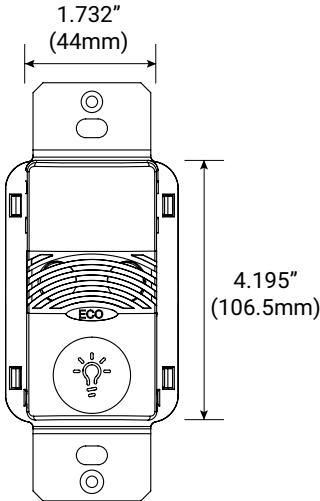
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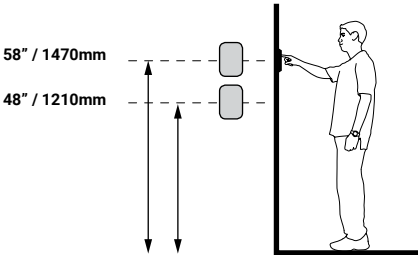
Top Product Features

- Selectable built-in light level sensor
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- Tracking/HVAC Mode

Dimensional and Mounting Details



Scale or Mounting Height



 additional product diagrams

Order Information

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

One single gang wallplate included

Catalog Number

Catalog Number	Ratings	Coverage	Color
ONW-D-1001-SP- * (*-W, V, LA, G, B, R)	10-30 VDC Input with isolated Form C relay	180"; 1000 sq. ft.	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) and Ultrasonic (US) technology

Mechanical

Mounting Plate/Strap 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

Electrical ratings (per relay):

- 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
 - Electronic Ballast (LED): 3A

Isolated Form C Relay Ratings

- 1A 30 VDC/VAC

Hardware Specifications

LED Indicators:

- Red LED = PIR detection
- Green LED = Ultrasonic detection; Green LED acts as EcoMeter or nightlight 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 - Energy Management Equipment (UL916)
- 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

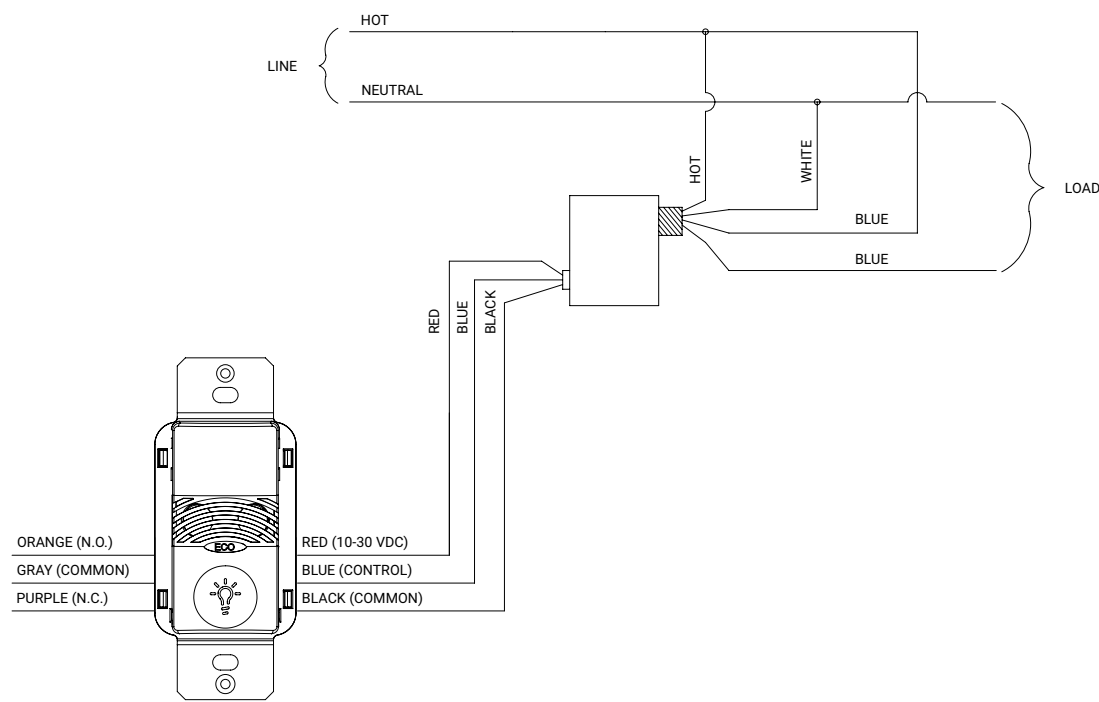
Overview

The Dual Technology Low Voltage Occupancy Sensing Wall Switch is a motion sensing lighting control that is used for energy savings and convenience. 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.

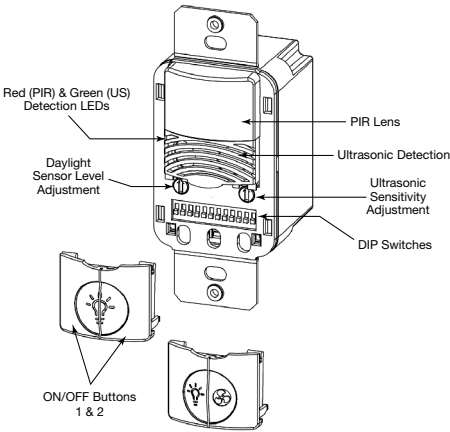
The ONW-D-1001-SP combines Ultrasonic and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers. PIR is used to turn the lights ON and then either or both technologies are used to keep the lights ON. In Automatic On Mode, the lights turn ON when a person enters the room. In Manual On Mode, the lights are turned ON by pressing the universally recognized light icon pushbutton. Each relay can be set independently to Automatic On Mode or Manual On Mode. 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

Recommended wire: 18-3 AWG stranded non-shielded



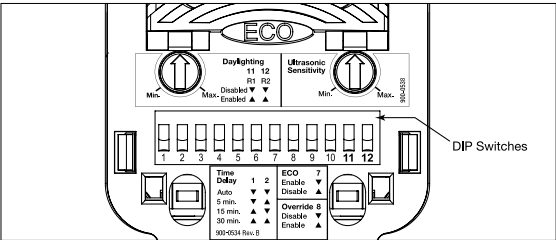
Controls



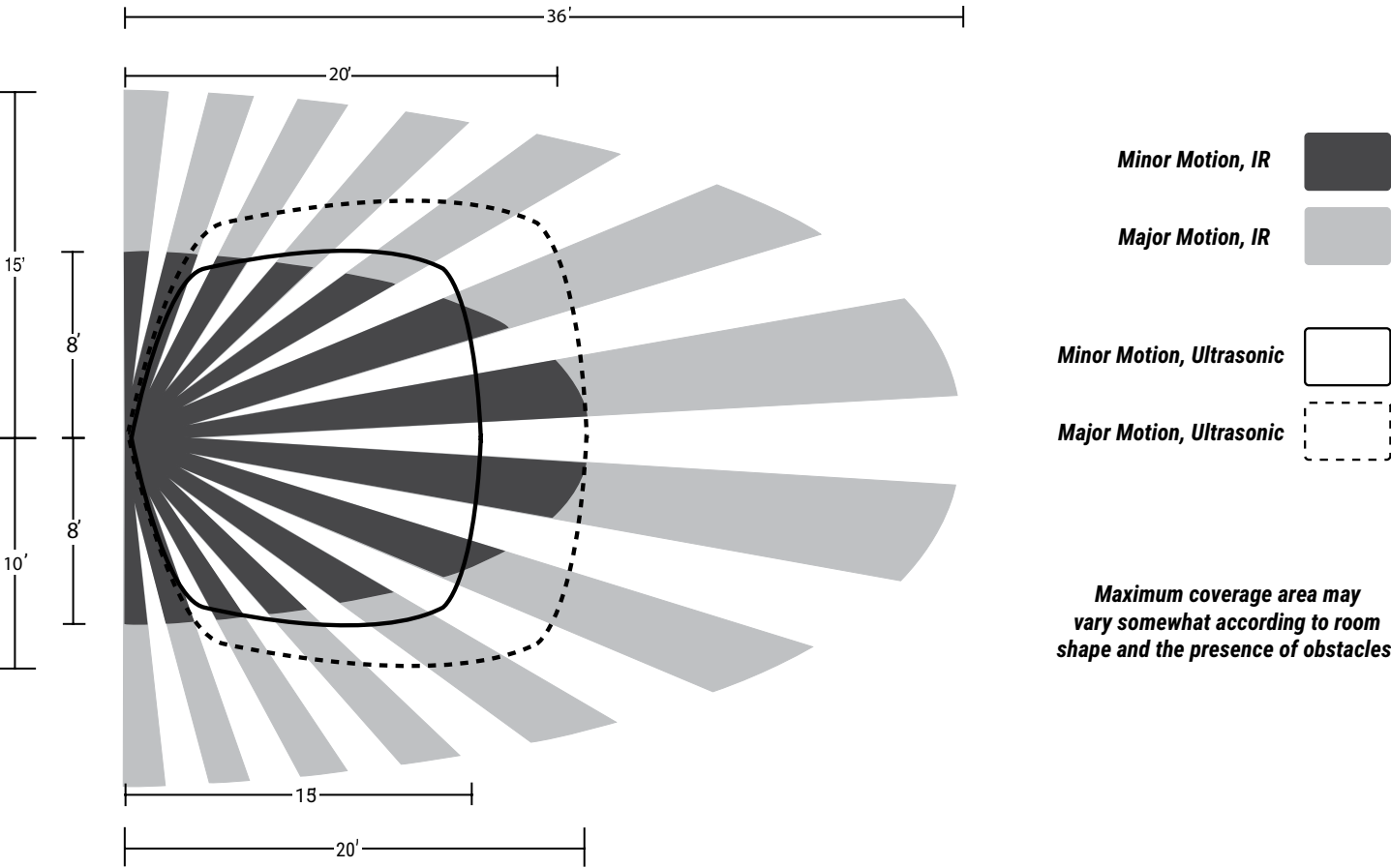
DIP Switch Legend

DIP Switch	Time Delay		Activation		PIR Sensitivity	Walk-Through Mode	EcoMeter	Override	Bathroom	Relay Swap	Daylighting	
	1	2	Relay 1	Relay 2							Relay 1	Relay 2
Auto*	▼	▼	Auto ▼	Auto ▼	Full ▼	Disable ▼	Enable ▼	Disable ▼	Disable ▼	Normal ▼	Disable ▼	Disable ▼
5 Minutes	▲	▲	Manual ▲	Manual ▲	50% ▲	Enable ▲	Disable ▲	Enable ▲	Enable ▲	Swap ▲	Enable ▲	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.**

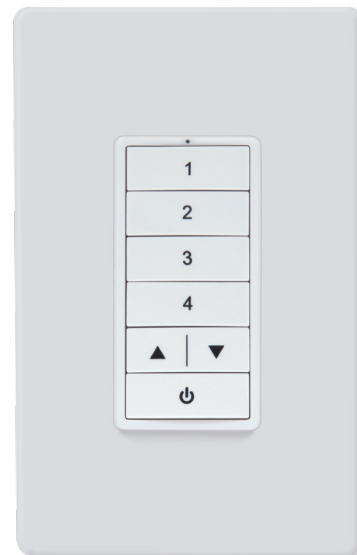


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reference only



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.