Technical Data

Effective November 4, 2014

Greengate

ONW-D – NeoSwitch Dual Tech/Single Level Wall Switch Sensor (Neutral Required)

Catalog#	Prepared by
Project	Date
Comments	Type

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 for energy savings and convenience.

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


PIR Activated


Ultrasonic Activated

Self-Adjusting

Powering Business Worldwide

Specifications

Technology	Passive Infrared (PIR) and Ultrasonic (US)
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
	Motor Load: ¼ HP @ 125 VAC
	230/277 VAC: Fluorescent/Ballast – Max. load: 9.8 amps, 2700W, 50/60Hz
Ballast Compatibility	Compatible with magnetic and electronic ballasts
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 Level Sensing	0 to 200 foot-candles
Operating Environment	Temperature: 32°F - 104°F (0°C - 40°C)
	Relative humidity: 20% to 90% non-condensing
	For indoor use only
Housing	Durable, injection molded housing. ABS resin complies with UL 94V-0
Size	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)
LED Indicators	Red LED for PIR detection; Green LED for Ultrasonic detection; Green LED acts as EcoMeter or nightlight locator
Standards	FCC Compliant cULus Listed RoHS Compliant

Operation

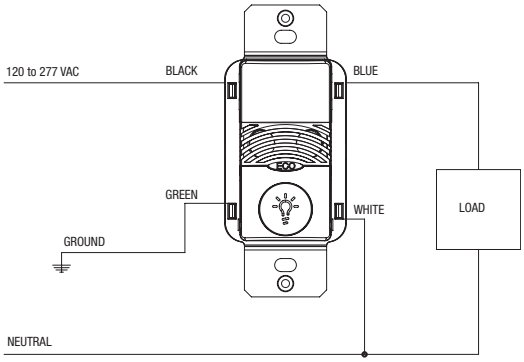
The ONW-D-1001-MV-N combines Ultrasonic and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers. PIR is used to turn the lights ON and 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. 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.

Applications

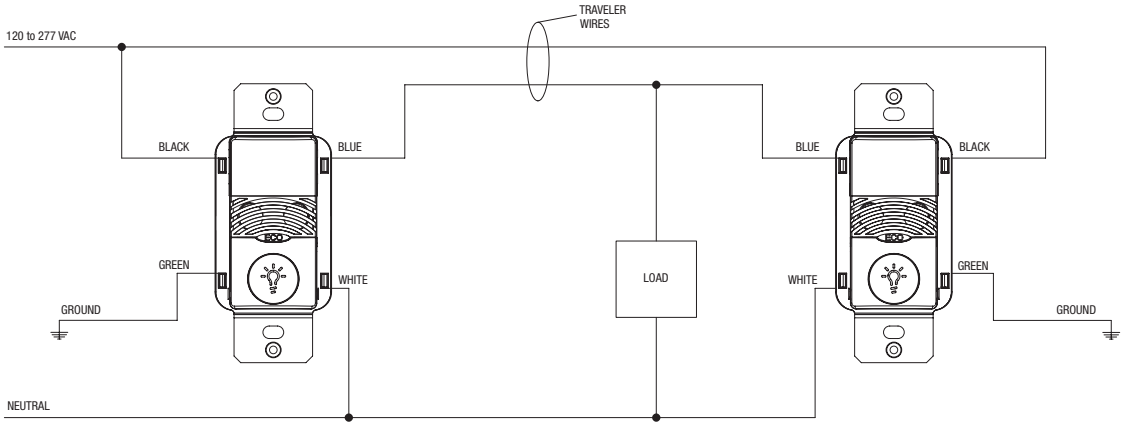
- Private Offices
- Small Conference Rooms
- Lunch/Break Rooms
- Small Classrooms
- Small Restrooms (1-2 Stalls)
- Small Lounges
- Small Waiting Rooms
- Small Closets
- Small Storage Areas

Wiring Diagrams

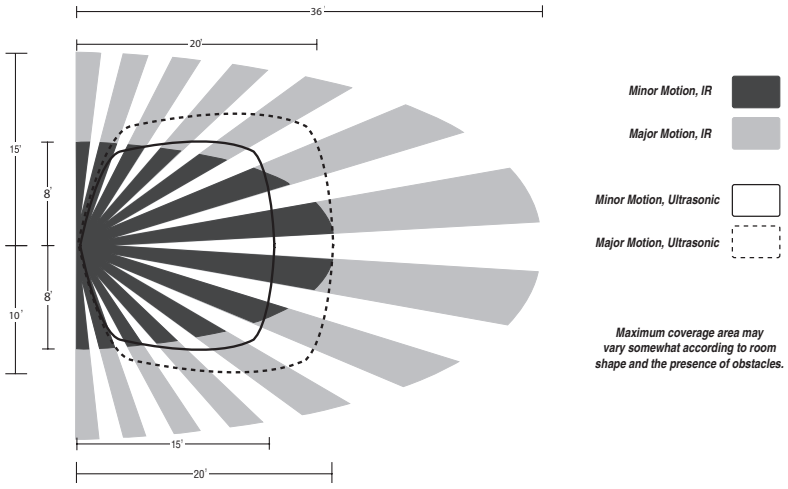
Single Level Switching – Single Circuit



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



Coverage



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

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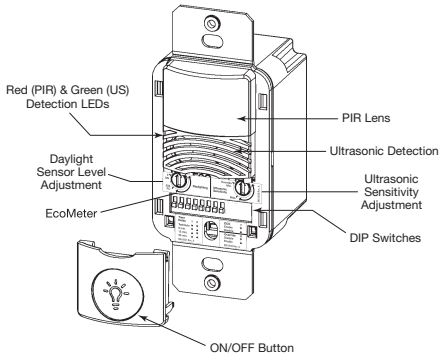
Controls

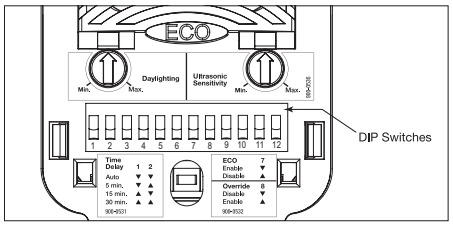


DIP Switch Legend

	Time Delay		Activation	Not Used	PIR Sensitivity	Walk-Through Mode	EcoMeter	Override	Not Used	Maintain Lights On	Not Used	
			Relay 1									
DIP Switch	1	2	3	4	5	6	7	8	9	10	11	12
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 =



Ordering

*One single gang wallplate included.

Catalog #	Ratings	Coverage	Voltage
ONW-D-1001-MV-N-* (* - W, V, LA, G, B)	Incandescent: 0-800W @ 120V Fluorescent: 0-1200W @ 120V Fluorescent: 0-2700W @ 277V Max Load/Relay	180°; 1000 sq. ft.	120 to 277 VAC; 50/60 Hz

* White, Ivory, Light Almond, Gray, Black

Note: Not all colors are available in stock and some color options may have extended lead times.

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