Greengate

ONW-D, NeoSwitch Dual Tech/Dual Relay Wall Switch Sensor

(Ground Required)

PIR Activated | Ultrasonic Activated | Self-Adjusting | California Title 24 Compliant

- Air-gap switch ensures no leakage current to load
- Selectable built-in light level sensor
- NEMA WD7 Standard robotic method utilized to verify coverage patterns
- Additional pushbutton with light/fan graphic included
- 100% recycled packaging

Specifications:

Technology: Passive Infrared (PIR) and Ultrasonic (US)
Electrical Ratings: (Per Relay)
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
277 VAC:
Fluorescent/Ballast –
Max. load: 9.8 amps, 2700W, 50/60 Hz
Ballast Compatibility: Compatible with magnetic and electronic ballasts
Time Delays: Self-Adjusting, 15 seconds/test (10 min. Auto) Selectable 5, 15, 30 min.
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 UL94VO.
Size:
- **Mounting Plate/Strap Dimensions:** 4.195"H x 1.732"W (106.553mm 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; Green LED
Warranty: Five year

FCC Compliant
cULus Listed
RoHS Compliant c UL us

Catalog #	Type
Project	
Comments	
Prepared by	Date

Overview

The Dual Technology Dual Relay 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. The unit contains two relays that allow the control of two separate loads. It does not require a neutral wire for installation making it ideal for retrofit applications.

Operation

The ONW-D-1001-DMV combines Ultrasonic (US) 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 or Manual On Mode. The sensor includes self-adaptive technology that continuously self-adjust sensitivity and time delay in real-time, maximizing the potential energy savings that are available in the particular application.

Applications

private offices	small classrooms	small waiting rooms
small conference rooms	small restrooms (1-2 stalls)	small closets
lunch/break rooms	small lounges	small storage areas

Ordering

One single gang wallplate included

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

** White, Ivory, Light Almond, Gray, Black*

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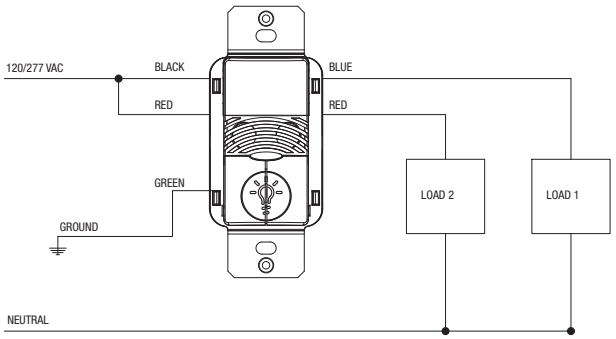
COOPER Controls

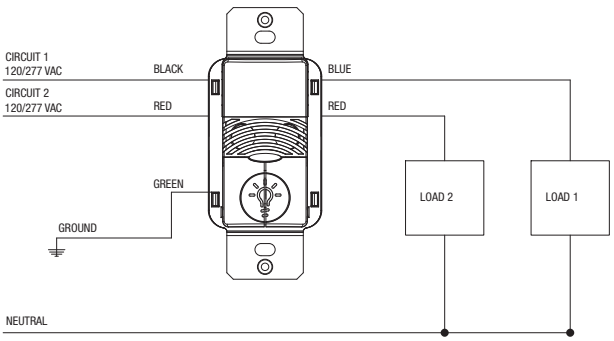
ONW-D, NeoSwitch Dual Tech/Dual Relay

Wiring Diagrams

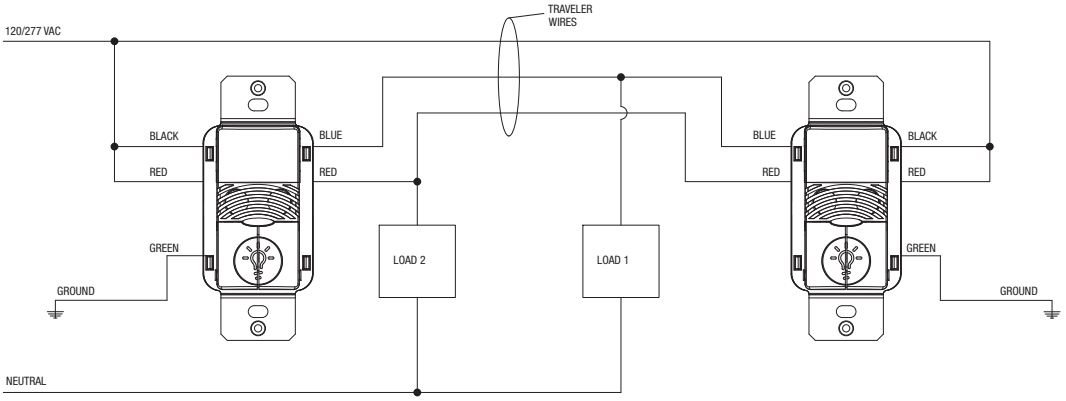
120/277 VAC dual level single circuit wiring diagram



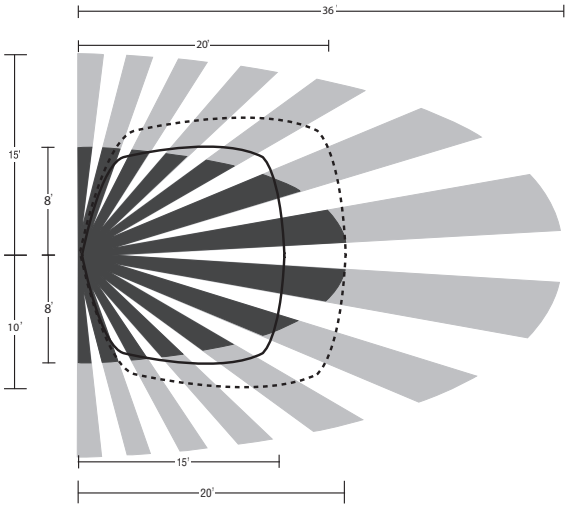
120/277 VAC dual level dual circuit wiring diagram



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



Coverage



Minor Motion, IR

Major Motion, IR

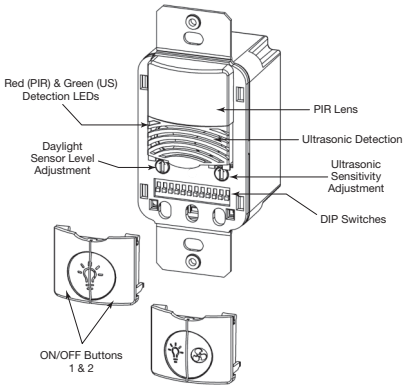
Minor Motion, Ultrasonic

Major Motion, Ultrasonic

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

The NEMA WD 7 Guide and robotic method were utilized to verify coverage patterns.

Controls

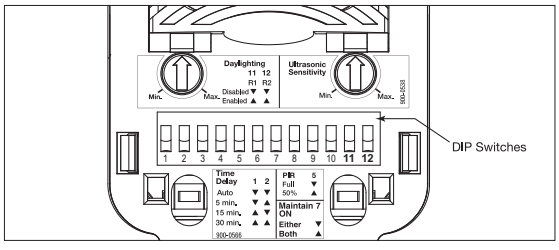


DIP Switch Legend

	Time Delay		Activation				PIR Sensitivity	Walk-Through Mode	Maintain Lights On	Override	Bathroom	Relay Swap	Daylighting	
			Relay 1		Relay 2								Relay 1	Relay 2
DIP Switch	1	2	3		4		5	6	7	8	9	10	11	12
Auto*	▼	▼	Auto	▼	Auto	▼	Full ▼	Disable ▼	Either ▼	Disable ▼	Disable ▼	Normal ▼	Disable ▼	Disable ▼
5 Minutes	▼	▲	Manual	▲	Manual	▲	50% ▲	Enable ▲	Both ▲	Enable ▲	Enable ▲	Swap ▲	Enable ▲	Enable ▲
15 Minutes	▲	▼												
30 Minutes	▲	▲												

**Self-Adjusts to 10 min. user mode*

Default =



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