



ONW-D, NeoSwitch Dual Tech/Single Level 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 Guide robotic method utilized to verify coverage patterns

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

347 VAC: Fluorescent/Ballast –
Max. load: 4.3 amps, 1500W, 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 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.

FCC Compliant

cULus Listed

RoHS Compliant



www.coopercontrol.com

Catalog #	Type
Project	
Comments	
Prepared by	Date



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 to for energy savings and convenience. It does not require a neutral wire for installation making it ideal for retrofit applications.

Description/Operation

The ONW-D-1001-MV 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 automatically 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.

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. Wallplate not included with 347 VAC model.*

Catalog #	Ratings	Coverage	Voltage
ONW-D-1001-MV-* (* - 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
ONW-D-1001-347-* (* - W, V, LA, G, B)	Incandescent: 0-1500W @ 347V Fluorescent: 0-1500W @ 347V Max Load/Relay	180°; 1000 sq. ft.	347 VAC, 50/60 Hz

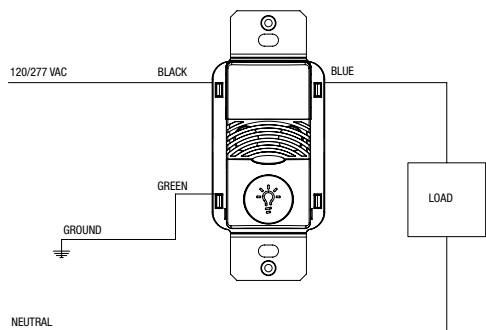
* White, Ivory, Light Almond, Gray, Black

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

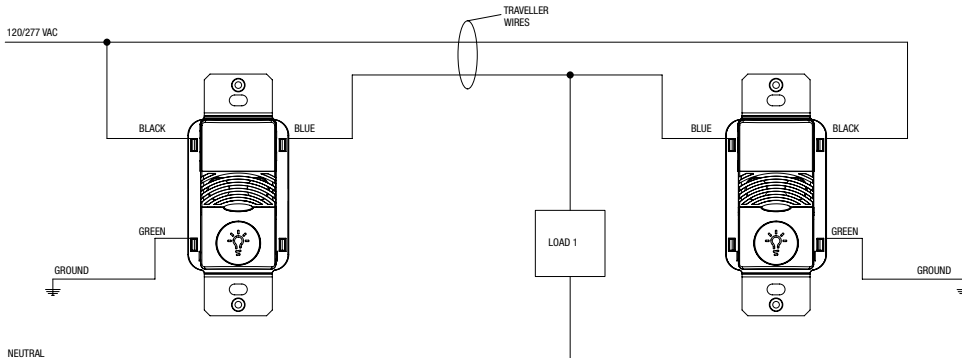
ONW-D, NeoSwitch Dual Tech/Single Level

Wiring Diagrams

Single Level Switching—Single Circuit

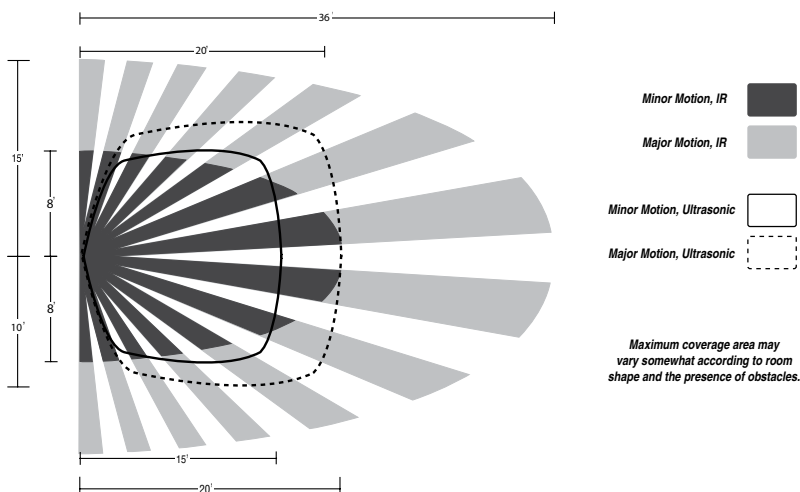


Three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out.

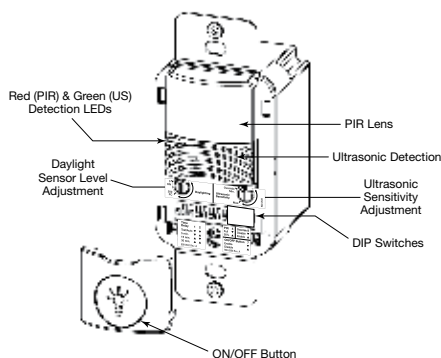


*For 347 VAC wiring diagrams refer to Installation Instructions

Coverage



Controls



DIP Switch Legend

DIP Switch	Time Delay		Activation		PIR Sensitivity	Walk-Through Mode		ON/OFF Button		Override		Not Used	Maintain Lights On	Not Used	
	1	2	Relay 1	3		Not Used	4	5	6	7	8			9	10
15 Sec Test/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 =

