

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

Catalog#	Prepared by
Project	Date
Comments	Type

## Overview

The Dual Technology Single Level Occupancy Sensing 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.

## 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



PIR Activated



Ultrasonic Activated



Self-Adjusting



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## Specifications

<b>Technology</b>	Passive Infrared (PIR) and Ultrasonic (US)
<b>Electrical Ratings</b>	<p><b>120 VAC:</b> 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</p> <hr/> <p>Motor Load: ¼ HP @ 125 VAC</p> <hr/> <p><b>277 VAC:</b> Fluorescent/Ballast – Max. load: 9.8 amps, 2700W, 50/60 Hz Electronic Ballast (LED) 3A</p> <hr/> <p><b>347 VAC:</b> Fluorescent/Ballast – Max. load: 4.3 amps, 1500W, 50/60 Hz Electronic Ballast (LED) 3A</p>
<b>Ballast Compatibility</b>	Compatible with LED loads, magnetic and electronic ballasts
<b>Time Delays</b>	Self-Adjusting, 15 seconds/test (10 min. Auto), Selectable 5, 15, 30 minutes
<b>Coverage</b>	Major motion - 36' x 30' Minor motion - 20' x 16'
<b>Light Level Sensing</b>	0 to 200 foot-candles
<b>Operating Environment</b>	Temperature: 32°F - 104°F (0°C - 40°C) Relative humidity: 20% to 90% non-condensing For indoor use only
<b>Housing</b>	Durable, injection molded housing. ABS resin complies with UL 94V-0
<b>Size</b>	<p>Mounting Plate/Strap Dimensions: 4.195"H x 1.732"W (106.55mm x 44mm)</p> <hr/> <p>Mounting Plate/Strap Dimensions: ONW-D-1001-347: 4.35"H x 1.732"W (110.49mm x 44mm)</p> <hr/> <p>Product Housing Dimensions: 2.618"H x 1.752"W x 1.9"D (66.5mm x 44.5mm x 48.26mm)</p>
<b>LED Indicators</b>	Red LED for PIR detection; Green LED for Ultrasonic detection
<b>Standards</b>	FCC Compliant cULus Listed RoHS Compliant



## Operation

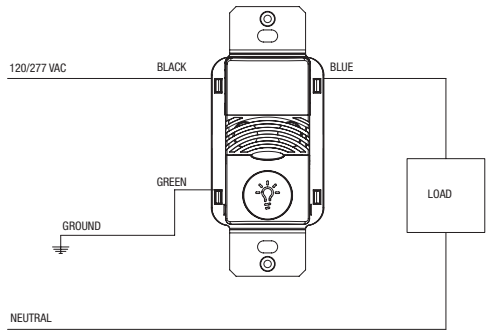
The ONW-D-1001-MV combines Ultrasonic (US) and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers. PIR is used to turn the lights ON and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

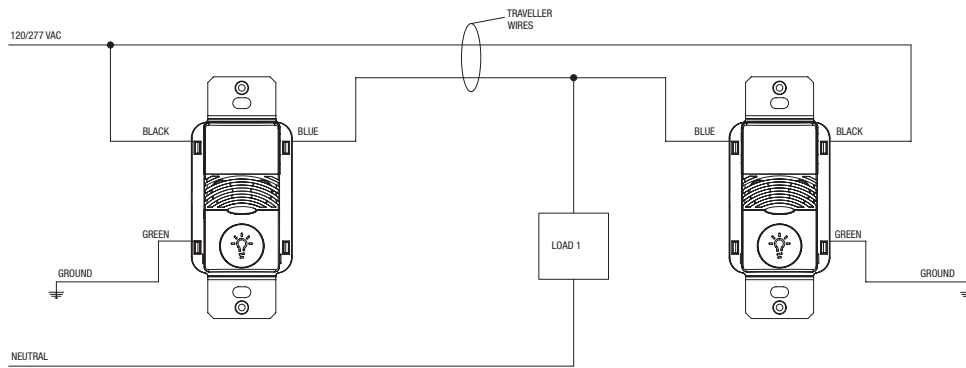
- Private Offices
- Small Conference Rooms
- Lunch/Break Rooms
- Small Classrooms
- Small Restrooms (1-2 Stalls)
- Small Lounges
- Small Waiting Rooms
- Small Closets
- Small Storage Areas

## Wiring Diagrams

### Single Level Switching – Single Circuit

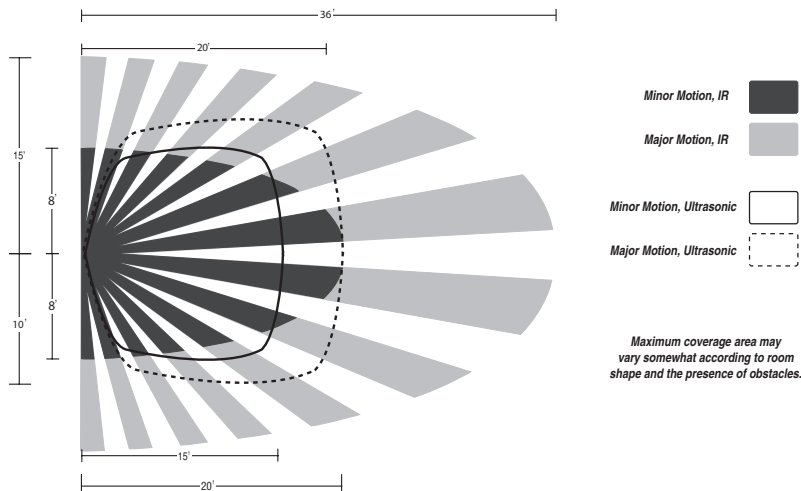


**Three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out.**

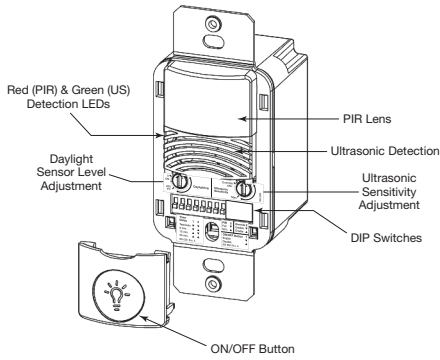


\*For 347 VAC wiring diagrams refer to Installation Instructions

## Coverage



**Controls**

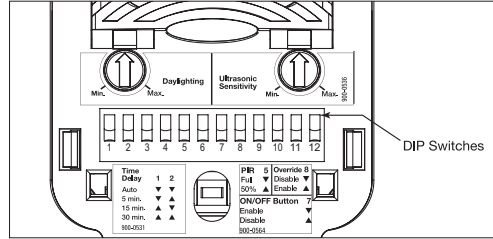


**DIP Switch Legend**

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	Not Used							3	4	5	6
15 Sec Test/Auto*	▼	▼	Auto	▼	Full	Disable	Enable	▼	Disable	▼	Either	▼		
5 Minutes	▼	▲	Manual	▲	50%	Enable	▲	Disable	▲	Enable	▲			
15 Minutes	▲	▼												
30 Minutes	▲	▲												

\*Self-Adjusts to 10 min. user mode

Default =



**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.

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Specifications and dimensions subject to change without notice.