

# 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


 California  
Title 20  
Compliant

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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 Motor Load: ¼ HP @ 125 VAC</p> <p><b>230/277 VAC:</b> Fluorescent/Ballast – Max. load: 9.8 amps, 2700W, 50/60Hz</p>
<b>Ballast Compatibility</b>	Compatible with 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> <p>Mounting Plate/Strap Dimensions: ONW-D-1001-347: 4.35"H x 1.732"W (110.49mm x 44mm)</p> <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; Green LED acts as EcoMeter or nightlight locator
<b>Standards</b>	FCC Compliant cULus Listed RoHS Compliant



## Operation

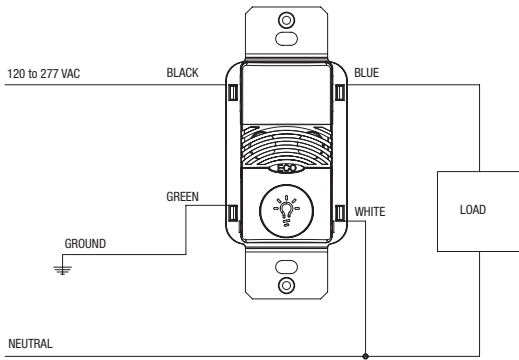
The ONW-D-1001-MV-N combines Ultrasonic and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers. PIR is used to turn the lights ON and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

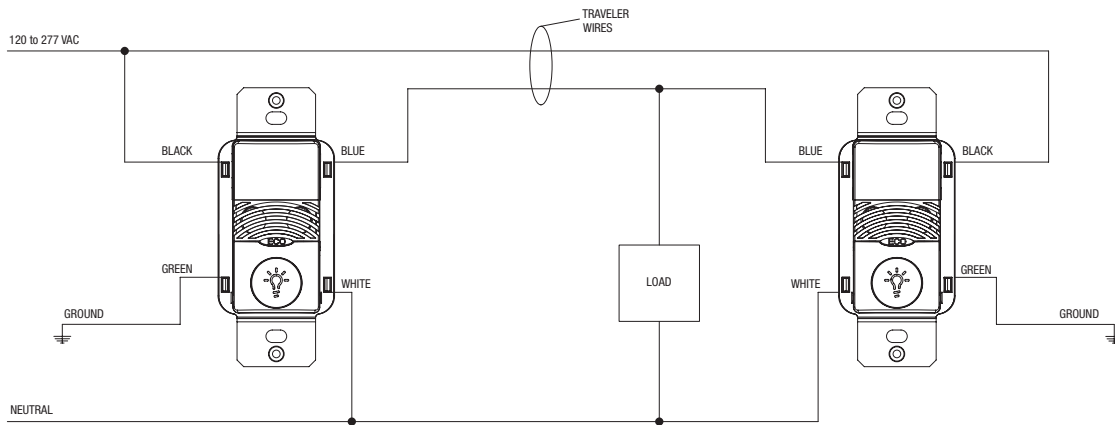
- Private Offices
- Small Conference Rooms
- Lunch/Break Rooms
- Small Classrooms
- Small Restrooms (1-2 Stalls)
- Small Lounges
- Small Waiting Rooms
- Small Closets
- Small Storage Areas

## 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

