# VNW-D — NeoSwitch Dual Tech/Single Level Wall Switch Vacancy Sensor (Ground Required)

Catalog#	Prepared by
Project	Date
Comments	Туре



## Overview

The Dual Technology Single Level Vacancy 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.

#### **Features**

- Requires Manual On for activation
- · Air-gap switch ensures no leakage current to load
- · Selectable built-in light level sensor
- Products tested to NEMA WD 7 2011 Occupancy Motion Sensors Standard
- · LED Rated









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#### **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 Electronic Ballast (LED) 3A Motor Load: ¼ HP @ 125 VAC  277 VAC: Fluorescent/Ballast – Max. load: 9.8 amps, 2700W, 50/60 Hz Electronic Ballast (LED) 3A		
Ballast Compatiblity	Compatible with LED loads, 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) Product Housing Dimensions: 2.618"H x 1.732"W (110.49mm x 44mm)		
LED Indicators	Red LED for PIR detection; Green LED for Ultrasonic detection		
Standards	FCC Compliant cULus Listed RoHS Compliant		

#### **Description/Operation**

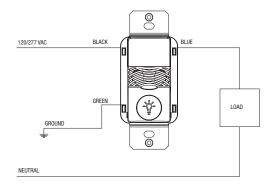
The VNW-D-1001-MV combines Ultrasonic (US) and Passive Infrared (PIR) sensor technologies to monitor a room for occupancy to deliver maximum energy savings and ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers. Manual On switch is used to turn the lights ON and then either or both technologies are used to keep the lights ON. 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**

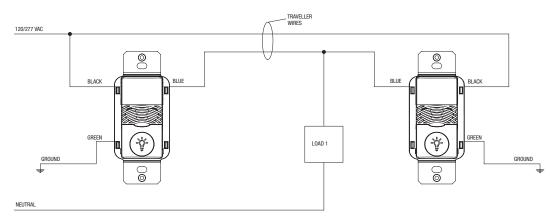
- Private Offices
- Small Conference Rooms
- Lunch/Break Rooms
- Small Classrooms
- Small Restrooms (1-2 Stalls)
- Small Lounges
- Small Waiting Rooms
- · Small Closets
- Small Storage Areas

## **Wiring Diagrams**

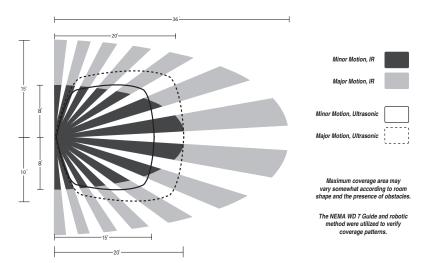
Single Level Switching - Single Circuit



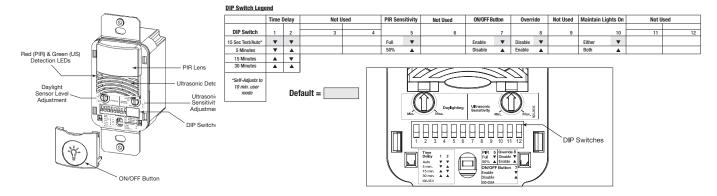
Three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out.



## Coverage



#### **Controls**



### **Ordering**

\*One single gang wallplate included

Catalog #	Ratings	Coverage	Voltage
VNW-D-1001-MV-* (* - W, V, G)	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

<sup>\*</sup> White, Ivory, Gray

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



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