

VNW-P – NeoSwitch PIR/Dual Relay Wall Switch Vacancy Sensor (Ground Required)

Catalog#	Prepared by
Project	Date
Comments	Type

Overview

The Passive Infrared Dual Relay Vacancy 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.

Features

- 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
- Additional pushbutton with light/fan graphic included
- Requires Manual On for activation
- LED Rated



PIR
Activated



Self-Adjusting



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Specifications

Technology	Passive Infrared (PIR)
Electrical Ratings (Per Relay)	<p>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</p> <hr/> <p>Motor Load: ¼ HP @ 125 VAC</p> <hr/> <p>277 VAC: Fluorescent/Ballast – Max. load: 9.8 amps, 2700W, 50/60 Hz Electronic Ballast (LED) 3A</p>
Ballast Compatibility	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 1.752" W x 1.9" D (66.5mm x 44.5mm x 48.26mm)
LED Indicators	Red LED for PIR detection; Green LED acts as EcoMeter or night light locator
Standards	FCC Compliant cULus Listed RoHS Compliant



Description/Operation

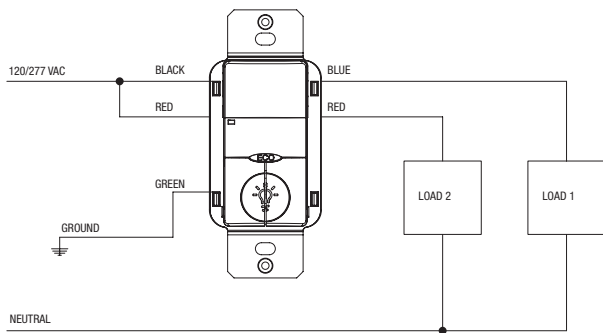
The VNW-P-1001-DMV uses Passive Infrared (PIR) sensor technology to monitor a room for occupancy and deliver maximum energy savings. The lights are turned ON by pressing the universally recognized light icon pushbutton. The sensor includes self-adaptive technology that continuously self-adjusts sensitivity 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. PIR sensors are considered line-of-sight sensors, meaning that the sensor must be able to have a direct line-of-sight to the person making the motion.

Applications

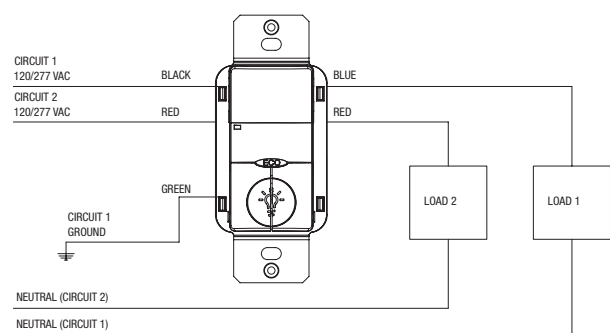
- Private Offices
- Small Conference Rooms
- Lunch/Break Rooms
- Small Classrooms
- Small Restrooms (No Stalls)
- Small Lounges
- Small Waiting Rooms
- Small Closets
- Small Storage Areas

Wiring Diagrams

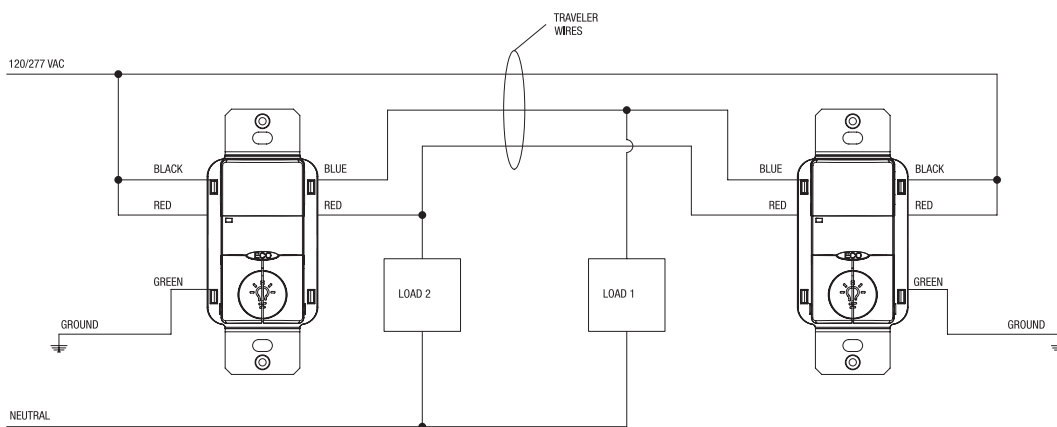
120/277 VAC dual level single circuit wiring diagram



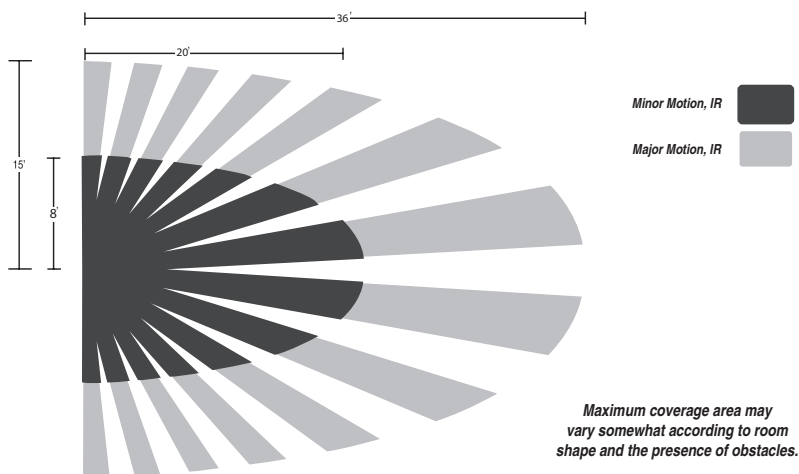
120/277 VAC dual level dual circuit wiring diagram



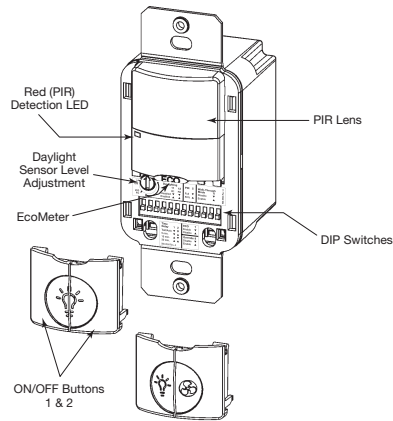
Dual level single circuit three-way wiring diagram: Lights will turn OFF automatically when sensor that detected motion last, times out



Coverage



Controls

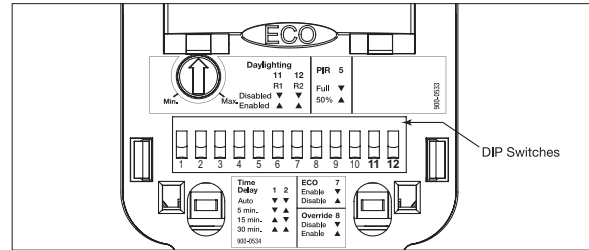


DIP Switch Legend

DIP Switch	Time Delay		Not Used		PIR Sensitivity		Not Used		EcoMeter		Override		Bathroom		Relay Swap		Daylighting			
	1	2	3	4	5	6	7	8	9	10	11	12	11	12	Relay 1	Relay 2	Relay 1	Relay 2		
Auto*	▼	▼			Full	▼			Enable	▼	Disable	▼	Disable	▼	Normal	▼	Disable	▼	Disable	▼
5 Minutes	▼	▲			50%	▲			Disable	▲	Enable	▲	Enable	▲	Swap	▲	Enable	▲	Enable	▲
15 Minutes	▲	▲																		
30 Minutes	▲	▲																		

*Self-Adjusts to 10 min. user mode

Default =



Ordering

*One single gang wallplate included

Catalog #	Ratings	Coverage	Voltage
VNW-P-1001-DMV-* (* - 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

* White, Ivory, Gray

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

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