**General Information**
- Read all instructions on both sides of this sheet first.
- Install in accordance with ALL local codes.
- For indoor use only.

**Specifications**
- **Technology:** Passive Infrared (PIR)
- **Electrical Ratings:**
  - 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:** 1/4 HP @ 125 VAC
- **Fluorescent/Ballast – Max. load:** 9.8 amps, 2700 W, 50/60 Hz
- **Ballast Compatibility:** Compatible with magnetic and electronic ballasts

**No Minimum Load Requirement**
- **Time Delays:** No Minimum Load Requirement
- **Ballast Compatibility:** Compatible with magnetic and electronic ballasts

**Description**
- The VNW-P-1001-DMV Vacancy Sensing Wall Switch is a Passive Infrared (PIR) motion sensing lighting control and conventional wall switch all-in-one, used for energy savings and convenience.

**PIR Technology**
- The sensor’s segmented lens divides the field of view into sensor zones, and detects the changes in temperature that are created when a person, or part of a person as small as a hand, passes into or out of a sensor zone.
- The VNW-P-1001-DMV allows the control of two separate loads with one occupancy sensor switch.
- The lights are turned ON by pressing the universally recognized light icon pushbutton. In either mode, the lights stay ON as long as the sensor detects motion in the room. When the room is vacated, the lights turn OFF automatically after a preset Time Delay interval.
- The sensor includes self-adaptive technology that continually adjusts to conditions by adjusting sensitivity and time delay in real-time. By adjusting sensitivity and time delay automatically, the sensor is 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.
- The Daylighting feature prevents lights from turning ON, when the room is adequately illuminated by natural light.

**Electrical Ratings**
- **Main Switch:** Fluorescent/Ballast – Max. load: 9.8 amps, 2700 W, 50/60 Hz

**Coverage**
- **Major Motion:** 1000 sq. ft.
- **Minor Motion:** 300 sq. ft.

**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
- **Housing:** Durable, injection molded housing.
- **Poly carbonate resin complex with UL94V-2 material.

**Mounting Plate/Strip Dimensions:**
- 4.195" x 1.732" (106.593 mm x 44 mm)
- **Product Housing Dimensions:** 2.618" x 1.752" (66.5 mm x 44.5 mm x 48.26 mm)

**LED Indicators:**
- Red LED indicates PIR detection.
- Green LED acts as EcoMeter or night light locator.

**Location**
- When installing the VNW-P-1001-DMV in a new junction box, choose the switch location carefully to provide optimum coverage of the occupied area. When replacing an existing wall switch, bear in mind that there must be a clear line-of-sight between the sensor and the area to be covered. Avoid painting the VNW-P-1001-DMV directly into the hallway where it may detect passers-by.

**Installation**
- The VNW-P-1001-DMV can be installed in any standard single gang box. It may be installed in the same manner as an ordinary wall switch.

- **Wiring Diagram 1:** 120/277 VAC dual level single circuit wiring diagram
- **Wiring Diagram 2:** 120/277 VAC dual level dual circuit wiring diagram
Installer Adjustments

PIR Sensitivity
1. Stand in different areas of the room and wave your hands.
2. If the Red LED does not turn ON, check for any obstructions.
3. Stand still three to four feet away from sensor for five seconds. LED should not turn ON.
4. If Red LED turns ON without motion or is constantly ON adjust PIR sensitivity to 50% by moving DIP Switch 5 up.

Daylight Adjustments

The Daylighting feature prevents the lights from turning ON when the room is adequately illuminated by natural light. If there is enough light in the room regardless of occupancy, the sensor will hold the lights OFF. If there is not enough light in the room, the sensor will allow the lights to turn ON. The Daylighting feature allows the selection of which relay to control via daylighting (dual load models only). The sensor will not allow the Daylighting feature to turn the load OFF if the space is vacant if the light level is above the setpoint and the Time Delay expires. If someone attempts to turn the load ON and there is sufficient daylight available the Daylighting feature will hold the lights OFF.

1. Set the light level when the ambient light is at the level where no artificial light is needed. If this feature is not needed, leave the light level at maximum (fully CW).
2. Set DIP Switches 11 (Relay 1) and/or 12 (Relay 2) for daylight control.
3. With the loads ON, put the sensor into Test Mode. To place into Test Mode, toggle DIP Switch 12 out of its current position, wait 3 seconds and then back in to its original position.
4. Set the light level to minimum (fully CCW).
5. Let the sensor time-out so lights are OFF. Enter the space and lights should remain OFF.
6. Make sure not to block the sensor from the daylight source and adjust the light level potentiometer CW in small increments. (Pause 5 seconds between each adjustment)
7. Lights will not turn ON upon manual activation, when the ambient light level exceeds the daylight threshold setting.

Time Delay Adjustments

People who remain very still for long periods of time may need a longer time delay than the default setting of 10 minutes. As long as the self-adjusting feature is enabled, the switch will respond to each pair of false-offs with no normal OFF in between, by alternately making slight adjustments to either time delay (by 2-5 minute increments) or sensitivity, so there should be no need for manual adjustment. If manual adjustment is desired, refer to Time Delay settings in DIP Switch legend.

Override
1. The Override setting allows the sensor to operate as a service switch in the unlikely event of failure. 2. Move DIP Switch 8 up.
3. The pushbutton can be used to manually turn lights ON or OFF.

Troubleshooting

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<th>Suggestions</th>
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<td>Daylight Feature Enabled</td>
<td>If all lights are required adjust DIP Switches 11 and 12 and/or daylight potentiometer</td>
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<td>Power interruption</td>
<td>Check incoming voltage and/or wiring.</td>
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<tr>
<td>Override</td>
<td>Make sure sensor is not in Override Mode (DIP Switch 8 up).</td>
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<tr>
<td>Lights Will Not Turn OFF automatically</td>
<td>Maximum Time Delay is 30 Minutes. Check DIP Switches to verify DIP Switch settings. If lights do not turn OFF at the set Time Delay, check next step.</td>
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<td>Lights Will Not Turn OFF manually</td>
<td>PIR activated by heat source other than occupant</td>
<td>Move DIP Switch 5 up.</td>
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Warranties and Limitation of Liability

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