

Project		Catalog #		Type	
Prepared by		Notes		Date	




Greengate

VNW-D Wall Switch Dual Tech Vacancy Sensor

Wall Switch Dual Tech Vacancy Sensor with a Single 120/277 VAC Relay (Ground Required)

Typical Applications
Office • Small Conference Rooms • Lunch/Break Rooms • Classrooms • Restrooms (1-2 Stalls) • Lounges • Waiting Rooms • Closets • Storage Areas

- 
Interactive Menu
 - Order Information page 2
 - Additional Resources page 2
 - Wiring Diagrams page 3
 - Product Warranty

Product Certification



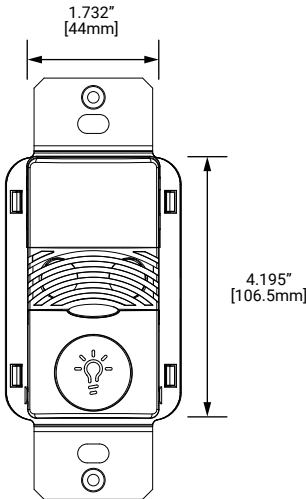
Product Features



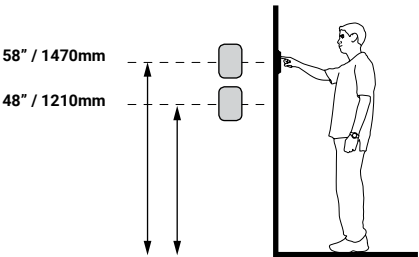
Top Product Features

- Motion sensing lighting control and conventional wall switch all-in-one that is used to for energy savings and convenience
- Doesnot require a neutral wire for installation making it ideal for retrofit applications
- 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 - 2024 Occupancy Motion Sensors Standard
- LED Rated

Dimensional and Mounting Details



Scale or Mounting Height



 additional product diagrams

Order Information

SAMPLE ORDER NUMBER: **VNW-D-1001-MV-W**
One single gang wallplate included.

Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
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	W=White, V=Ivory, G=Gray
				Notes Not all colors are available in stock and some color options may have extended lead times.

Product Specifications

Technology

- Passive Infrared (PIR) and Ultrasonic (US) technology

Mechanical

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)

Environment:

- **Operating temperature:** 32°F to 104°F (0°C to 40°C)
- **Relative humidity operating:** 20% to 90% non-condensing
- For indoor use only

Housing: Durable, injection molded housing. ABS resin complies with UL 94V-0

Mounting: Fits in a standard 3.5" deep back box

Electrical

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: 1/4 HP @ 125 VAC
- 277VAC
 - Fluorescent / Ballast max load: 9.8 amps, 2700W, 50/60 Hz
 - Electronic Ballast (LED): 3A

Ballast compatibility:

- LED loads
- Magnetic and Electronic ballasts

Hardware Specifications

LED Indicators:

- Red LED = PIR detection
- Green LED = Ultrasonic detection

Overview

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.

Controls and Performance

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 sensing level:

- 0 to 200 foot candles

Standards/Ratings

- cULus Listed
- FCC Compliant
- RoHS Compliant

Warning

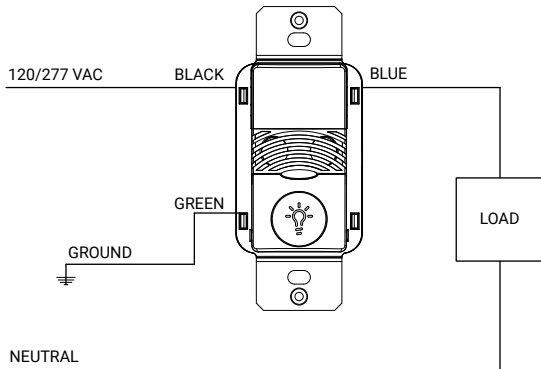
- This product is not intended to be used in applications involving the use of ammonia-based or VOC cleaners.
- Use of ammonia-based or VOC cleaners on this device must be avoided. Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- For detailed cleaning guidelines please refer to: Controls Care and Maintenance instructions at the end of this document.

Warranty

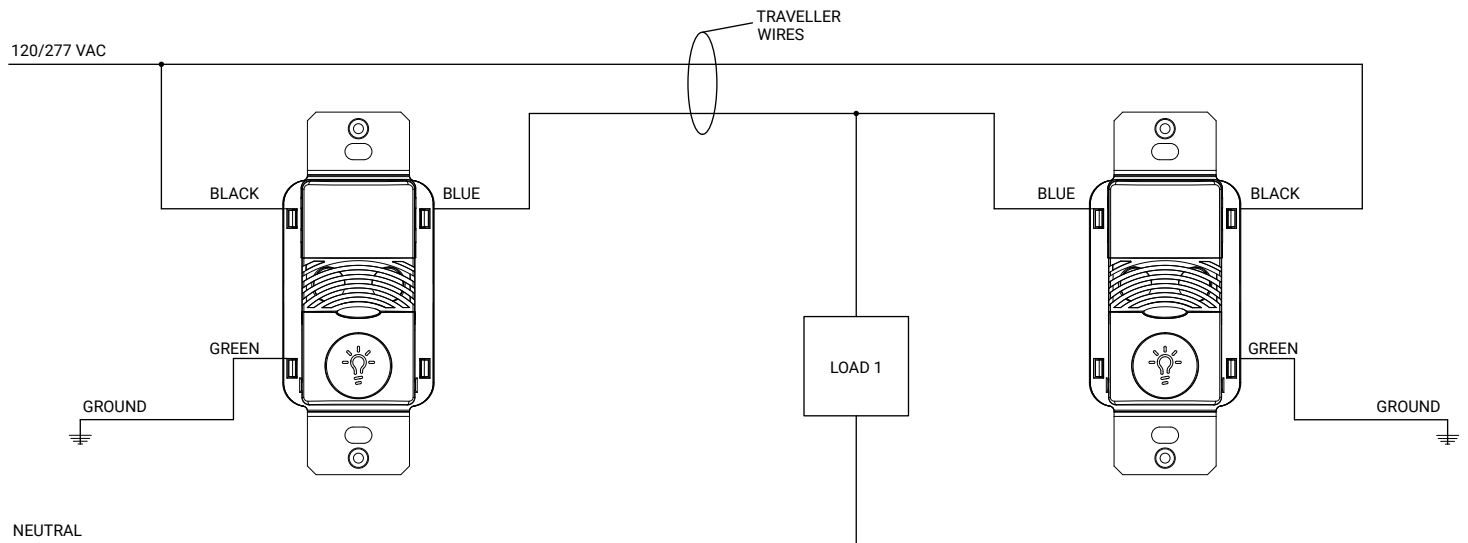
Five year warranty standard

Wiring Diagrams

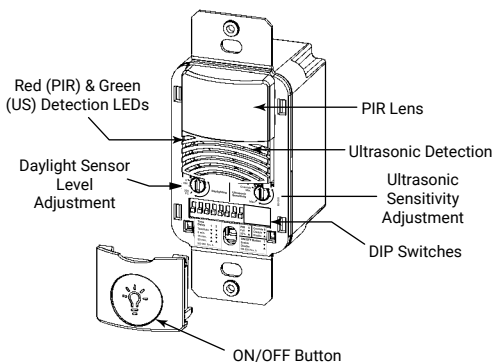
Single Level Switching - Single Circuit



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



Controls

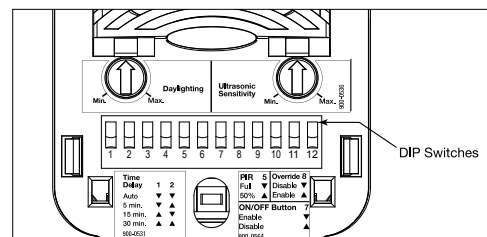



DIP Switch Legend

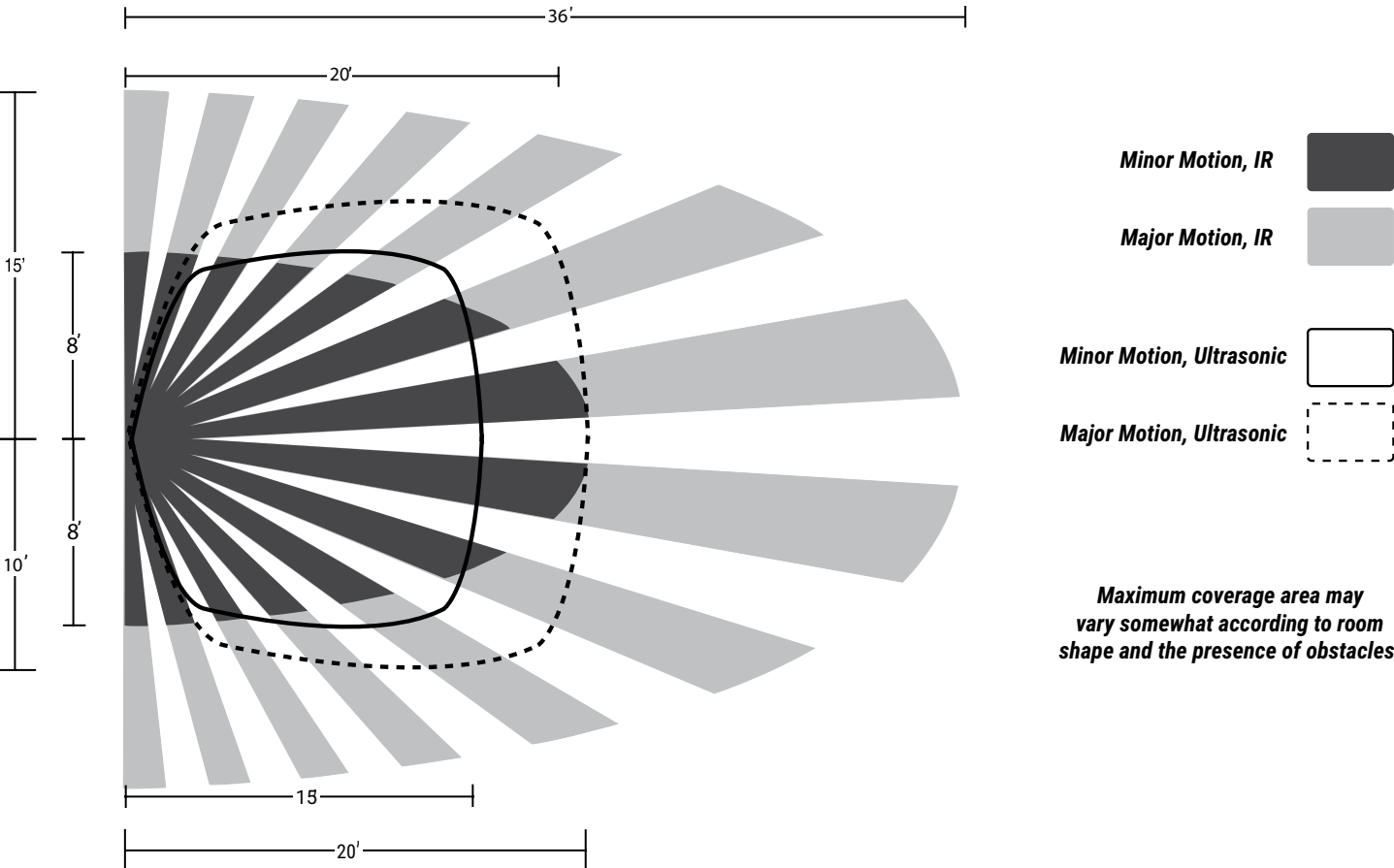
	Time Delay		Not Used		PIR Sensitivity		Not Used		ON/OFF Button	Override	Not Used		Maintain Lights On	Not Used	
DIP Switch	1	2	3	4	5	6	7	8	9	10	11	12			
15 Sec Test/Auto*	▼	▼			Full ▼		Enable ▼	Disable ▼		Either ▼					
5 Minutes	▼	▲			50% ▲		Disable ▲	Enable ▲		Both ▲					
15 Minutes	▲	▼													
30 Minutes	▲	▲													

*Self Adjusts to 10 min. user mode

Default =



Field of View



 **Control Systems**

- Greengate



Cooper Lighting Solutions has developed recommended guidelines for cleaning our products that will not impact the operation or finish of the product.

Recommended cleaning tips:

- **Never spray any fluids directly into the device.**
- **Use of ammonia-based or VOC cleaners on this device must be avoided.** Prolonged use may cause loss of integrity and expose electrified components. If this occurs, turn OFF power to the unit and replace.
- **Use a damp rag or single-use wipe** to avoid excess liquid penetrating the device.
- Be sure to wipe up remaining excess liquid after cleaning.
- Ensure the cleaning agent used does not have harsh chemicals such as bleach, ammonia, highly alkaline or concentrated acids (such as hydrochloric acid that can be found in household cleaners such as toilet bowl cleaners, bathroom tile and porcelain cleaners) as they could damage the device, causing them to become brittle and discolored.
- Cooper Lighting Solutions recommends the use of a mild liquid detergent and water to clean the devices. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however the single-use wipes **cannot contain bleach, ammonia, highly alkaline or concentrated acids.**

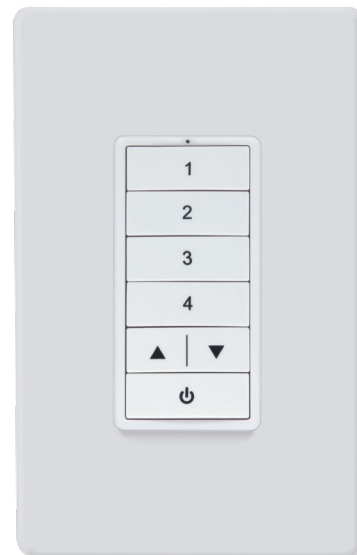


image for
reference only



WARNING

This product is not intended for use in applications involving the use of ammonia-based or VOC cleaners.

Prolonged use may cause loss of integrity and expose electrified components.

If this occurs, turn OFF power to the unit and replace.

Recommended cleaning instructions:

- **Never spray any fluids directly into the device.**
- Apply the mild liquid detergent to a damp cloth or paper towel. Single use wipes (e.g. Lysol brand or equivalent) are acceptable to use for cleaning the devices, however single-use wipes cannot contain bleach, ammonia, highly alkaline or concentrated acids.
- If excess liquid is present, remove by wringing out the cloth or paper towel to avoid liquid penetration into the device.
- Clean the Cooper Lighting Solutions device by wiping over the surface with the damp cloth.
- Remove an excess liquid remaining on the device with a dry cloth or paper towel.