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COOPER Lighting Solutions ONW-D-1001-DMV-N Dual Tech Occupancy Sensor Switch

COOPER Lighting Solutions ONW-D-1001-DMV-N Dual Tech Occupancy Sensor Switch Owner's Manual

Contents

COOPER
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COOPER Lighting Solutions ONW-D-1001-DMV-N Dual Tech Occupancy Sensor Switch

Specifications

- **Model:** ONW/VNW-D-1001-DMV-N
- **Type:** Dual Tech Occupancy Sensor Switch with Dual 120/277VAC Relays
- **Voltage:** 120/277 VAC, 50/60 Hz
- **Color Options**: W=White, V=Ivory, LV=Light Almond, G=Gray, B=Black, R=Red
- **Warranty:** Five-year standard warranty

Product Features

- PIR Activated and Ultrasonic Activated Self-Adjusting
- California Title 20 Compliant
- 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
- Additional pushbutton with light/fan graphic included
- LED Rated

Dimensional and Mounting Details

- 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)

Project		Catalog #		Type	
Prepared by		Notes		Date	

Order Information
SAMPLE ORDER NUMBER: ONW-D-1001-DMV-N-W (One single gang wallplate included)

Warranty Information
Five-year standard warranty is provided with the product.

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Interactive Menu

Top Product 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
- Additional pushbutton with light/fan graphic included
- LED Rated

Greengate

ONW/VNW-D-1001-DMV-N

- Dual Tech Occupancy Sensor Switch with
- Dual 120/277VAC Relays (Neutral Required)

Typical Applications

- Office
- Small Conference Rooms
- Lunch/Break Rooms
- Classrooms

- Restrooms (1-2 Stalls)
- Lounges
- Waiting Rooms
- Closets
- Storage Areas

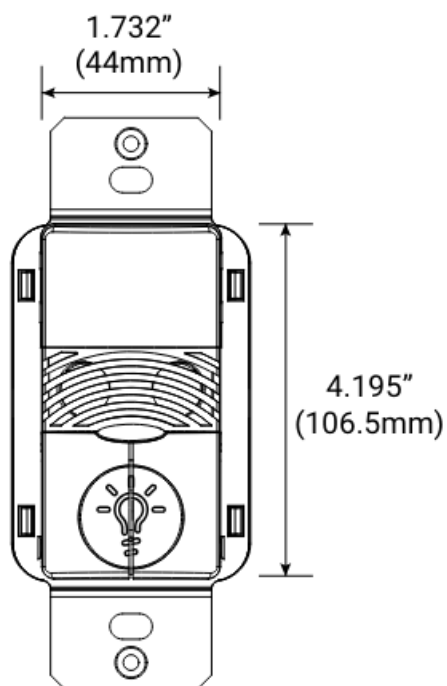## Product Certification
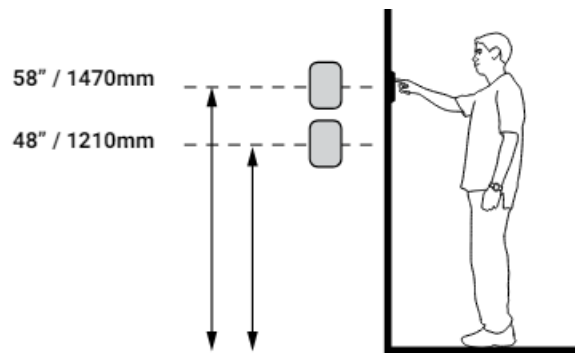

Product Features

PIR Activated   Ultrasonic Activated   Self-Adjusting   California Title 20 Compliant

Dimensional and Mounting Details

1.732"
(44mm)

4.195"
(106.5mm)

Scale or Mounting Height

58" / 1470mm
48" / 1210mm

Order Information

SAMPLE ORDER NUMBER: **ONW-D-1001-DMV-N-W**
One single gang wallplate included

Catalog Number

Catalog Number	Ratings	Coverage	Voltage	Color
ONW-D-1001-DMV-N - * (*-W, V, LA, G, B, R)	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, LV=Light Almond, G=Gray, B=Black, R=Red
				Notes Not all colors are available in stock and some color options may have extended lead times.

Product Specifications

The Dual Technology Dual Relay 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. The unit contains two relays that allow the control of two separate loads. The unit requires a neutral wire for installation.

The ONW-D-1001-DMV 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. 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. Each relay can be set independently to Automatic or Manual On Mode. 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.

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 moulded housing. ABS resin complies with UL 94V-0 Mounting: Fits in a standard 3.5" deep back box Can be mounted in multiple gang back box Refer to NEC box calculation for properly sized mounting 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; Green LED acts as EcoMeter or nightlight locator

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 – Energy Management Equipment (UL916)
- FCC Compliant
- RoHS Compliant
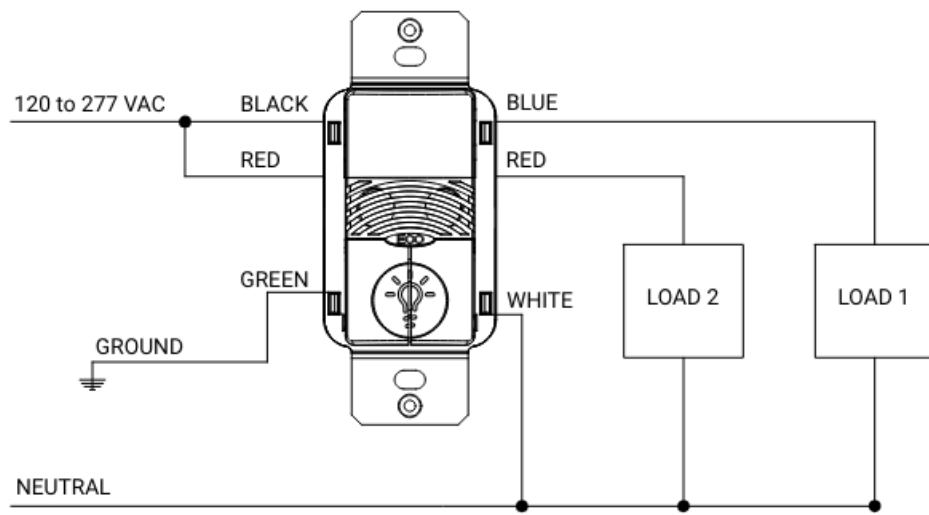
Warning

- 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.
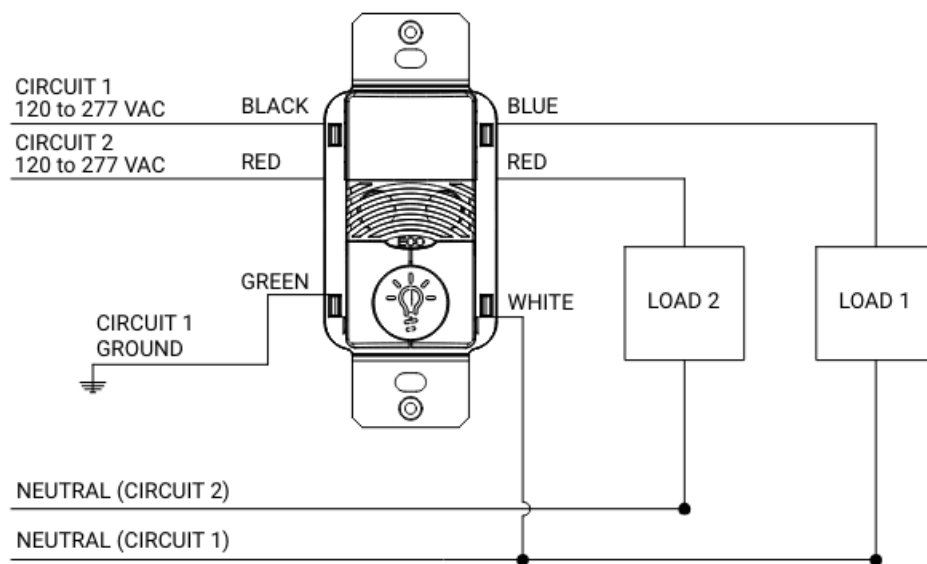
Warranty

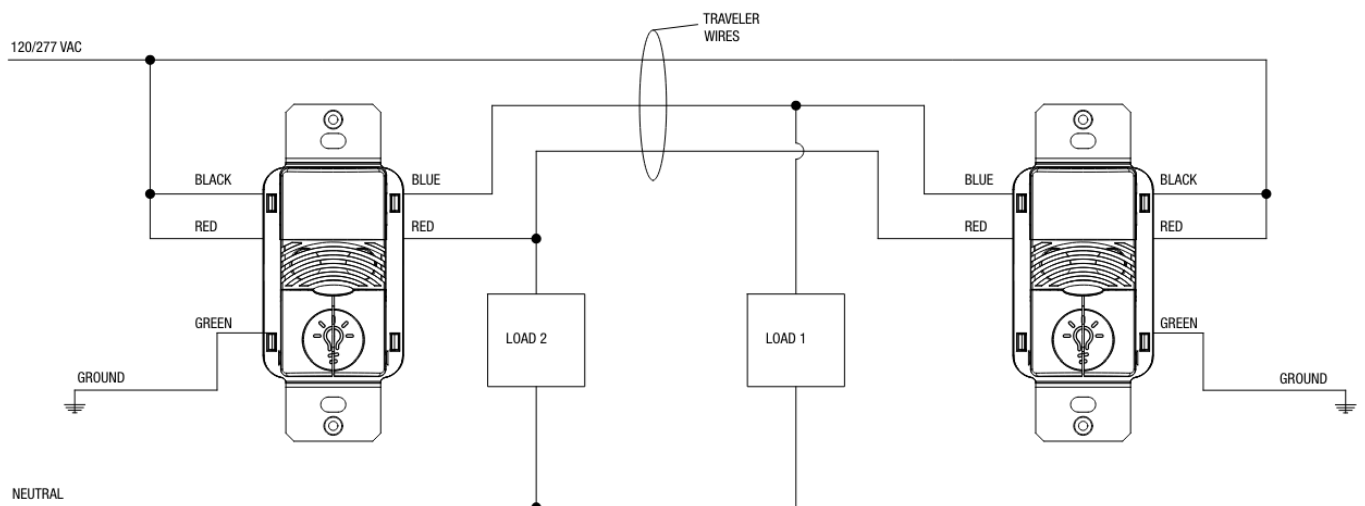Five-year warranty standard

Wiring Diagrams

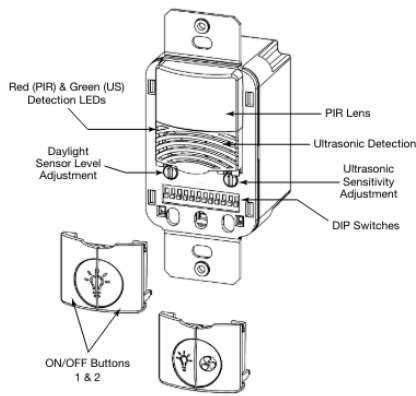**120/277 VAC dual level single circuit wiring diagram**

120/277 VAC dual level dual-circuit wiring diagram

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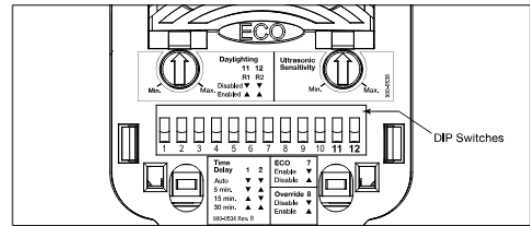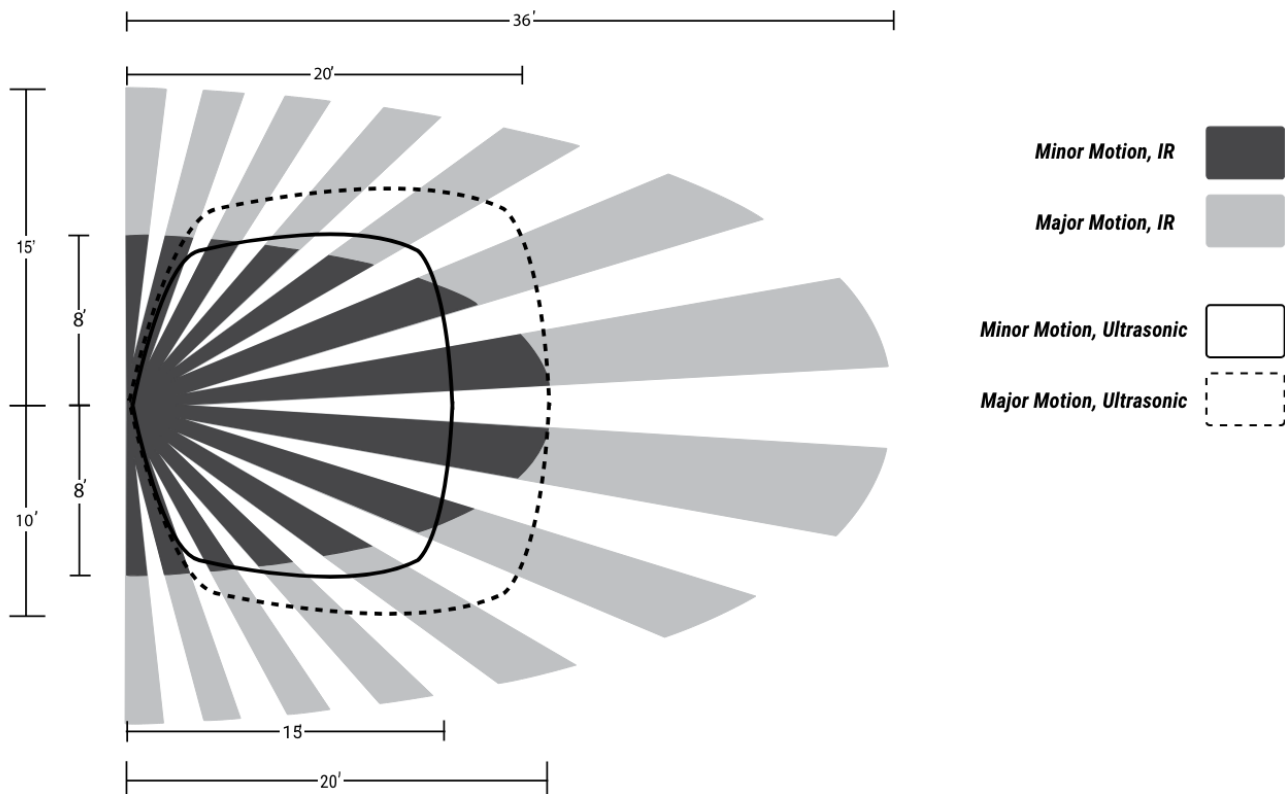

Controls

DIP Switch Legend

DIP Switch	Time Delay		Activation		PIR Sensitivity	Walk-Through Mode	EcoMeter	Override	Bathroom	Relay Swap	Daylighting	
			Relay 1	Relay 2							Relay 1	Relay 2
	1	2	3	4	5	6	7	8	9	10	11	12
Auto*	▼	▼	Auto ▼	Auto ▼	Full ▼	Disable ▼	Enable ▼	Disable ▼	Disable ▼	Normal ▼	Disable ▼	Disable ▼
5 Minutes	▼	▲	Manual ▲	Manual ▲	50% ▲	Enable ▲	Enable ▲	Enable ▲	Enable ▲	Swap ▲	Enable ▲	Enable ▲
15 Minutes	▲	▼										
30 Minutes	▲	▲										

*Self-Adjusts to 10 min. user mode

Default =

Field of View

Minor Motion, IR

Major Motion, IR

Minor Motion, Ultrasonic

Major Motion, Ultrasonic

Control Systems

- Greengate

Maximum coverage area may vary somewhat according to room shape and the presence of obstacles.
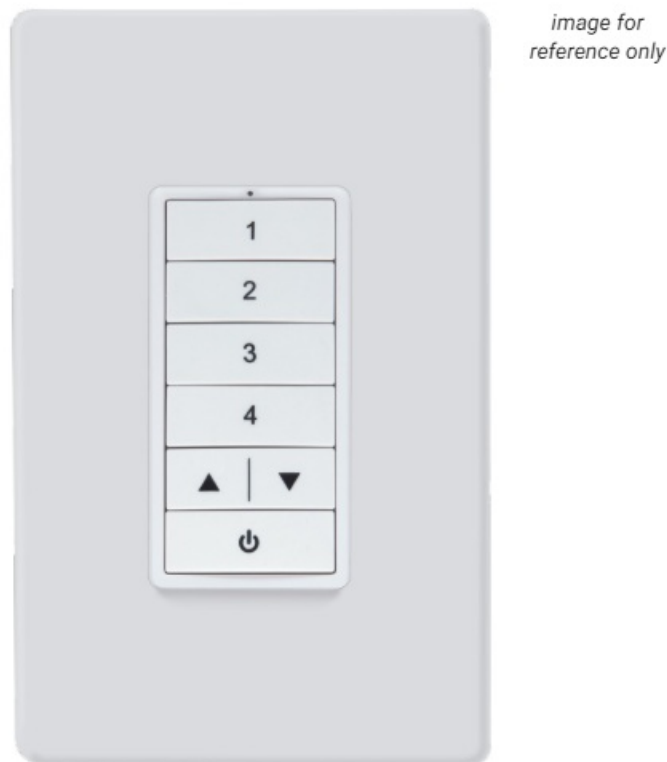
Care & Maintenance

Controls Care & Maintenance
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 the 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 inhousehold 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 the power to the unit and replace it.

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, or 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 a damp cloth.

- Remove the excess liquid remaining on the device with a dry cloth or paper towel.

Cooper Lighting Solutions

- **ADDRESS:** 1121 Highway 74 South Peachtree City, GA 30269
- **P**: **770-486-4800**
- **www.cooperlighting.com**
- For service or technical assistance: 1-**800-553-3879**

Canada Sales

- **ADDRESS:** 5925 McLaughlin Road Mississauga, Ontario L5R 1B8
- **P: 905-501-3000**
- **F: 905-501-3172**

Frequently Asked Questions

- **Q: What is the warranty period for the product?**
  - A: The product comes with a standard five-year warranty.
- **Q: Are all colour options available in stock?**
  - A: Not all colours are available in stock, and some colour options may have extended lead times. Please check availability at the time of purchase.

Documents / Resources

COOPER Lighting Solutions ONW-D-1001-DMV-N Dual Tech Occupancy Sensor Switch [pdf] Owner's Manual
ONW-D-1001-DMV-N, ONW-D-1001-DMV-N Dual Tech Occupancy Sensor Switch, Dual Tech Occupancy Sensor Switch, Occupancy Sensor Switch, Sensor Switch, Switch

References

- **User Manual**