

ONW-D – NeoSwitch Dual Tech RR7 Compatible Wall Switch Sensor

Catalog#	Prepared by
Project	Date
Comments	Type

Overview

The Dual Technology RR7 Compatible Occupancy Sensing Wall Switch is a motion sensing lighting control that is used for energy savings and convenience. This low voltage unit interfaces directly with GE RR7 Relay Systems. Low voltage switches do not require conduit in most markets thus lowering installation costs.

Features

- Selectable built-in light level sensor
- NEMA WD7 Guide robotic method utilized to verify coverage patterns
- Tracking/HVAC Mode



PIR
Activated

Ultrasonic
Activated


Self-Adjusting



Specifications

Technology	Passive Infrared (PIR) and Ultrasonic (US)
Electrical Ratings (Per Relay)	Input: 24 VAC \pm 10% Maximum current needed is 25mA 1 VA max for each sensor 7 VA max for each GE RR7/9 relay 8.5 VA max for each Sierra 1070-B relay Output: Half-wave rectified 24 VAC for 300ms pulse for driving up to 4 GE RR7/9 type relays or up to 2 Sierra 1070-B type relays
Isolated Form C Relay Ratings	1A 30 VDC/VAC
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 for Ultrasonic detection; Green LED acts as EcoMeter or nightlight locator
Standards	FCC Compliant cULus Listed RoHS Compliant 

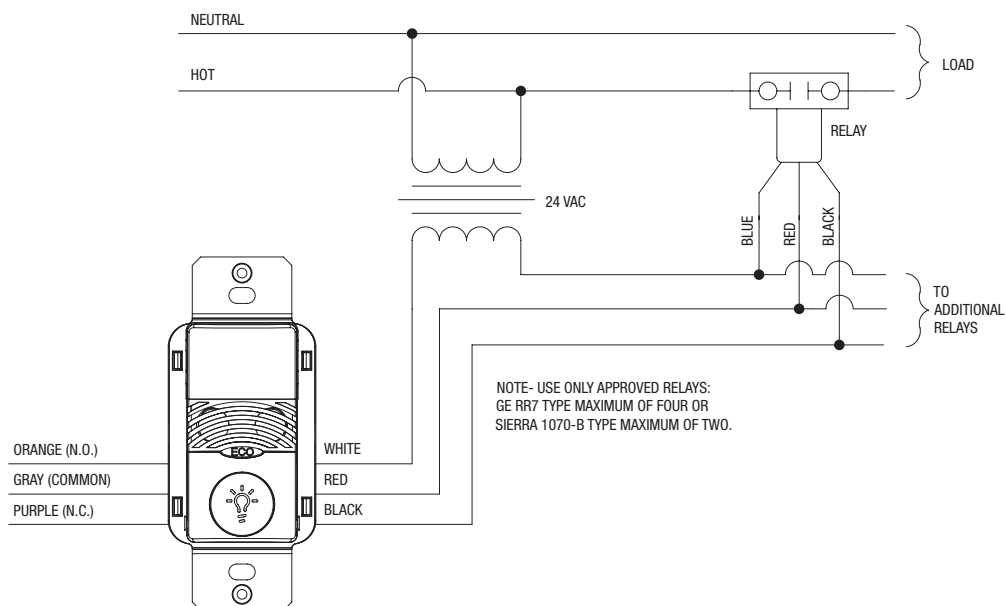
Description/Operation

The ONW-D-1001-RR7 combines Ultrasonic 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. 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. HVAC mode allows the load connected to the Form C BAS relay to remain ON when the lights are turned OFF manually. Applications may include keeping the room at a desired temperature while giving a presentation and the lights are OFF.

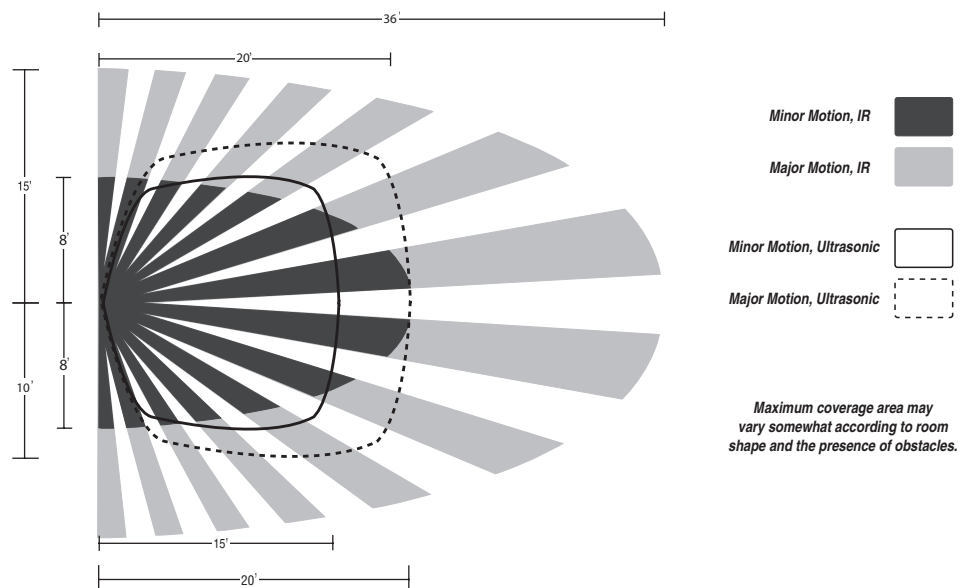
Applications

- 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

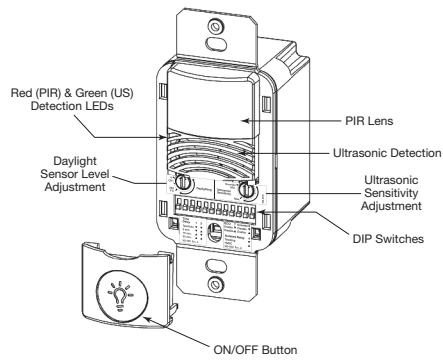
Wiring Diagrams



Coverage



Controls

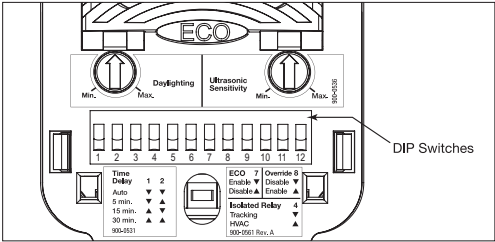


DIP Switch Legend

	Time Delay		Activation		Isolated Relay		PIR Sensitivity		Walk-Through Mode		EcoMeter		Override		Not Used	Maintain Lights On	Not Used	Not Used
DIP Switch	1	2	Relay 1		3	4	5	6	7	8	9	10	11	12				
Auto*	▼	▼	Auto	▼	Tracking	▼	Full	▼	Disable	▼	Enable	▼	Disable	▼		Either	▼	
5 Minutes	▼	▲	Manual	▲	HVAC	▲	50%	▲	Enable	▲	Disable	▲	Enable	▲		Both	▲	
15 Minutes	▲	▼																
30 Minutes	▲	▲																

*Self-Adjusts to 10 min. user mode

Default = ☐



Ordering

*One single gang wallplate included.

Catalog #	Ratings	Coverage
ONW-D-1001-RR7-* (* - W, V, LA, G, B)	24 VAC Input with isolated Form C relay (half wave rectified)	180°; 1000 sq. ft.

* White, Ivory, Light Almond, Gray, Black

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

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