

OSW-P – PIR/Single Level 120V Wall Switch Sensor (Ground Required)

Catalog#	Prepared by
Project	Date
Comments	Type

Overview

The OSW-P-0801-120 Passive Infrared Single or 3-way Occupancy Sensing Wall Switch is a motion sensing lighting control and conventional wall switch all-in-one that is used to for energy savings and convenience.

Reinforced color matched
tamper resistant lens



Features


- Replaces single or 3-way switches
- No neutral wire
- Adjustable time delay
- Integral Daylight Sensor
- Choice of Manual On or Auto On
- Works with incandescent, LED, fluorescent, CFL, MLV, ELV or 1/2 hp motor load



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Specifications

Technology	Passive Infrared (PIR)
Electrical Ratings	120 VAC: Incandescent/Tungsten – Max. load: 5A, 600W, 60 Hz LED/Compact Fluorescent/Electronic Low Voltage/ Electronic Ballast – Max. load: 5A, 600W, 60 Hz
Motor Load	1/6 HP @ 125 VAC
Ballast Compatibility	Compatible with magnetic and electronic ballasts
Time Delays	15 seconds to 30 minutes
Coverage	Major motion - 450 sq. ft. Minor motion - 200 sq. ft.
Light Level Sensing	0 to 200 foot-candles
Operating Environment	Temperature: 32°F – 104°F (0°C to 40°C) Relative humidity: 20% to 90% non-condensing For indoor use only
Housing	Durable, injection molded housing. Resin complies with UL 94V-0
Size	Mounting Plate/Strap Dimensions: 4.2"H x 1.8"W (106.5 mm x 46 mm) Product Housing Dimensions: 2.87"H x 1.6"W x 1.42"D (72.8mm x 40.7mm x 36mm)
LED Indicators	Red LED for Ultrasonic detection
Standards	FCC Compliant cULus Listed RoHS Compliant 

Description/Operation

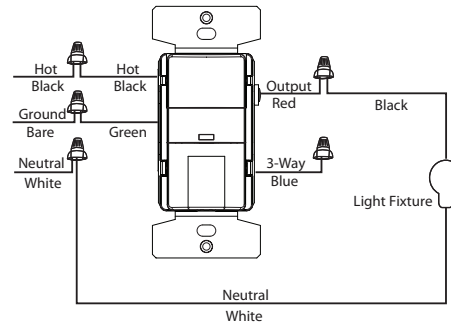
OSW-P-0801-120 is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights ON. These sensors have multi-segmented lenses. For units to sense motion, the person must cross between two segments. The distance between segments increases the farther you are from the sensor, so motion has to be larger the farther you are from the unit. 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. 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 pushbutton. The sensor provides true multi-way ON/OFF control. When lights have been activated, the lights will remain ON as long as on the sensor(s) continue to detect motion. The occupant may manually turn OFF the lighting by pressing the ON/OFF button on any of the connected devices. If the room becomes vacant and the lights are ON, the lights will turn OFF when the unit that detected motion last times-out.

Applications

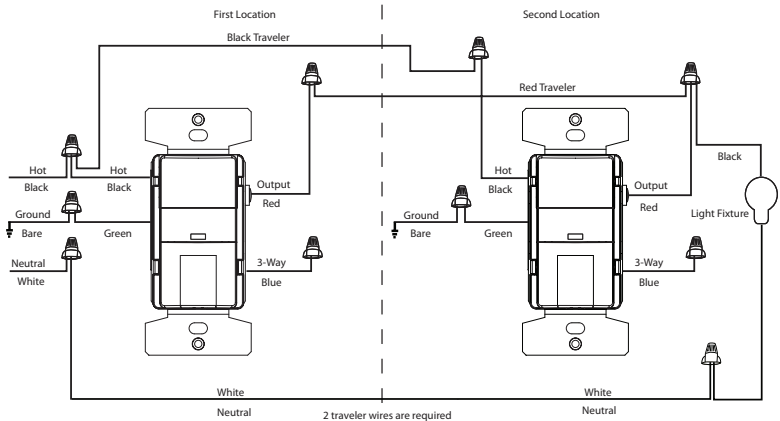
- Home office
- Small office
- Residential restroom
- Residential room
- Residential hallway
- Vending room

Wiring Diagram

Single Level Switching

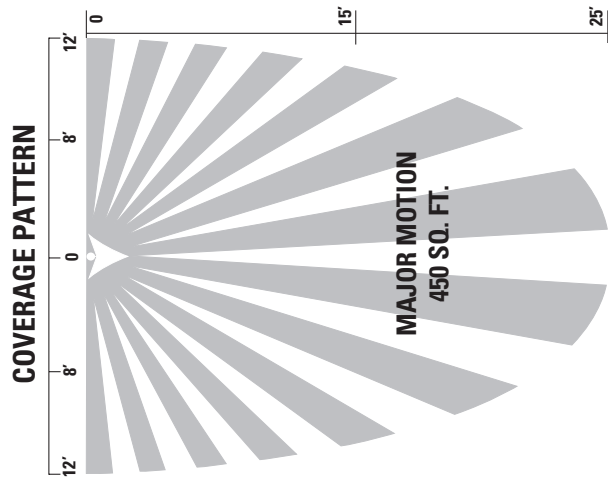


Three-way wiring



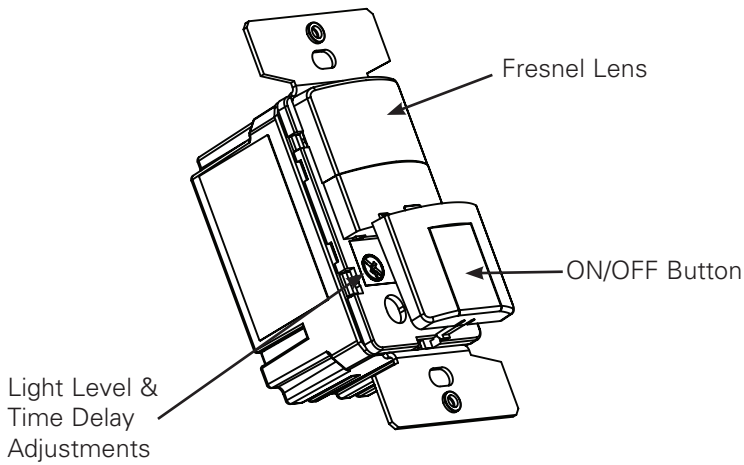
*For additional wiring diagrams refer to Installation Instructions

Coverage

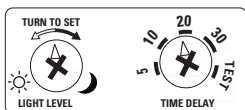


Maximum coverage area may vary somewhat according to room shape and the presence of obstacles.

Controls



Light Levels & Time Delay Adjustments



Ordering

*Wallplate Not Included

Catalog #	Ratings	Coverage	Voltage
OSW-P-0801-120-* (* - W, V, LA, G, B)	0-600W incandescent, CFL, MLV, ELV lighting load or 1/6 HP motor load	180°; 450 sq. ft.	120 VAC 60 Hz

* 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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