

# OSW-P, Single & Dual Level 120/277V



California  
Title 24  
Compliant

- 120 and 277 V in the same unit
- Exclusive Energy Savings Mode
- Zero-crossing technology to maximize relay life and ensure wall switch longevity
- No minimum load requirement
- Air-gap switch ensures no leakage current to load
- Manual OFF Pushbutton can be used in either mode
- NEMA WD7 Guide robotic method utilized to verify coverage patterns

## Specifications:

**Technology:** Passive Infrared (PIR)

**Electrical Ratings:** (per relay)

**120 VAC:**

Incandescent/Tungsten – Max. load: 6.7 amps, 800W,  
60 Hz Fluorescent/Ballast – Max. load: 6.7 amps.

**Motor Load:** 1/4HP @ 125 VAC

**277 VAC:**

Fluorescent/Ballast – Max. load: 4.3 amps, 1200W, 60 Hz

**Ballast Compatibility:** Compatible with magnetic and electronic ballasts.

**Time Delays:** 15 sec. to 30 min.

**Operating Environment:**

- Temperature: 60°F - 80°F (15°C - 26°C)
- Relative humidity: Less than 95%, non-condensing
- For indoor use only

**Housing:** Durable, injection-molded housing. ABS resin complies with UL94V0.

**Size:**

- **Mounting Plate Dimensions:**  
4.15"H X 1.94"W (10.54cm x 4.92cm)
- **Product Housing Dimensions:**  
2.73"H X 1.8"W X 1.8"D (6.93cm x 4.57cm x 4.57cm)

**Operating Modes:**

- Automatic ON/Automatic OFF
- Manual ON/Automatic OFF

**LED lamp:** Red LED

**Warranty:** Five year

UL Listed 

Catalog #	Type
Project	
Comments	
Prepared by	Date

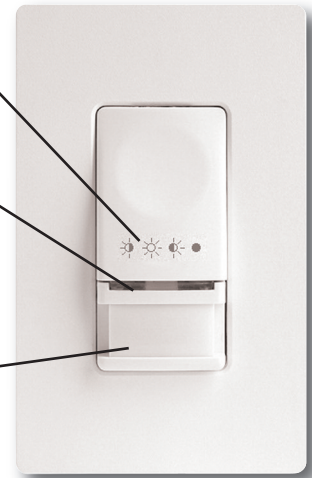
Self-adjusts sensitivity and time delay in real-time

Automatically resets the time delay to 10 minutes if left in installer mode

Built in feature prevents false activation during a building automation system power on sweeps

Automatic ON mode provides maximum convenience

Reinforced lens is tamper-resistant



## Overview

The OSW-P is a motion sensing lighting control and conventional wall switch all-in-one. This self-contained unit is offered in two versions: One switches a single circuit and the second has two relays and is commonly called a dual-level sensor. Wall switches are ideal for smaller spaces where you will not have obstructions of line-of-sight due to switch location, room orientation or furniture placement.

## Operation

The OSW-P includes self-adapting technology that continually adjusts to conditions by adjusting sensitivity and time delay in real-time.

### Single Circuit and Two Circuit/Dual-Level

In the Automatic ON Mode, the lights turn ON automatically when a person enters the room. In the Manual ON Mode, the lights are turned ON by pressing the touchplate at the top of the switch. In either mode, the lights will stay ON as long as the sensor detects motion in the room. When the room is vacated, the lights will turn OFF automatically after a preset time delay interval.

### Two Circuit/Dual-Level

The OSW-P-0451-DMV allows the control of two separate loads with one switch. The Two Circuit operates the same in the Auto and Manual modes as the single circuit switch. To change light levels once the lights are ON, the user presses and holds the touchplate allowing the lights to cycle through in the following order: primary load only, both loads, secondary loads only. The Dual-Level also has an Energy Saver mode that ensures that the wall switch only activates one load. If both loads are on when the sensor times out, only the primary load will be activated. If only the primary or secondary load was on at time of shut out, the sensor will reactivate the load that was on at the time. If the lights were shut OFF manually, the switch will activate the primary load only.

## Application

offices                      board room  
conference rooms      utility rooms

## Ordering

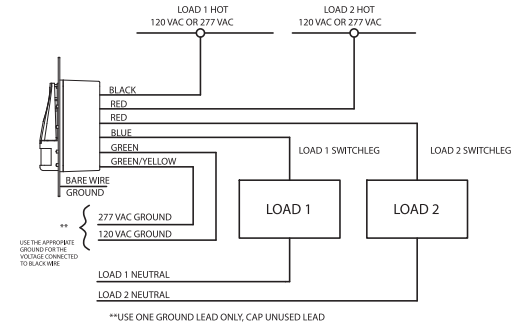
Catalog #	Ratings	Coverage	Shut-off Delay
OSW-P-0451-MV-* (* -W, V, A)	Incandescent: 0-800W @ 120V Fluorescent: 0-800W @ 120V Fluorescent: 0-1200W @ 277V	180°; 450 sq. ft. (41.80 sq. meters)	Adjustable 15 sec. - 30 min.
OSW-P-0451-DMV-* (* -W, V, A)	Incandescent: 0-800W @ 120V Fluorescent: 0-800W @ 120V Fluorescent: 0-1200W @ 277V Max Load/Relay		

\* White, Ivory, Almond

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### Dual Level Switching—Two Circuits



The diagram illustrates a 3-way switch application with two loads (LOAD 1 and LOAD 2) and two travellers. The system is powered by two 120 VAC sources: one for LOAD 1 (HOT or 277 VAC) and another for LOAD 2 (HOT or 277 VAC). The wiring includes a common line, two traveller lines, and a neutral line. The loads are connected to the common line and the neutral line. The travellers are connected to the two 120 VAC sources and the common line. The diagram also shows the connection of the loads to the neutral line and the connection of the travellers to the common line. The diagram is labeled with 'LOAD 1 HOT', 'LOAD 2 HOT', 'LOAD 1 SWITCHLEG', 'LOAD 2 SWITCHLEG', 'TRAVELLERS', 'BLACK', 'RED', 'BLUE', 'GREEN/YELLOW', 'Bare Ground', '277 VAC GROUND', '120 VAC GROUND', 'LOAD 1 NEUTRAL', and 'LOAD 2 NEUTRAL'.

**LOAD RATINGS:**  
 6.7A AT 120VAC FOR EACH LEG  
 4.3A AT 277VAC FOR EACH LEG  
 DO NOT EXCEED THE LOAD RATINGS OF THE SINGLE SWITCH.  
 FOR 3-WAY APPLICATION, ONLY RATINGS FOR SINGLE SWITCH  
 APPLY. LOAD RATING CAN NOT BE DOUBLED.

A technical diagram of a fan-shaped roof structure. The roof is composed of multiple trapezoidal panels radiating from a central point. The base of the roof is a horizontal line with a total width of 32'. A central section of the base is labeled 26'. The height of the roof structure is indicated by a vertical dimension line on the right, showing a total height of 2' and a lower section of 16'.

ON

1 2 3 4 5 6 7 8