0-10V dimmer sensor

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

OSW-P-010

Description

Single pole & 3-Way
10A @ 120V/AC
8A @ 277V/AC
0-10VDC **FLR** and **LED** ballasts

Design features

- Compatible with dimmable 0-10V LED and FLR ballasts
- Provides 180 degree field of view and 1000 sq. ft. of major motion coverage
- Selectable time delay of 15 seconds (Test mode, changes to 2 minutes after 2 minutes of powering up), 5 minutes (factory default), 15 minutes and 20 minutes
- Full-range preset dimming control provided with horizontal dim/bright bar
- Adjustable high-end and low-end trim setting
- Single green LED indicates motion
- Push pad design provides minimal travel and crisp actuation
- Uniform color matches PIR lens to device housing
- Digital circuitry provides aesthetically pleasing soft ON/fade OFF
- Occupancy Sensor version allows to toggle between Auto ON/Auto OFF or Manual ON/Auto OFF mode
- Occupancy Sensor version provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light
- Meets California Title 20 requirements
- No leakage to load in OFF mode
- Easily configurable to suit specific applications
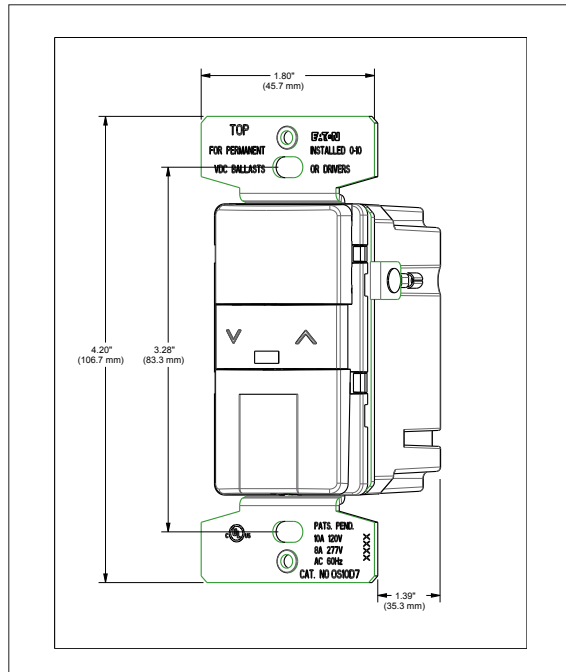- Neutral is required for installation of device

Table 1. 0-10V Dimmer Sensor

Catalog No.	Description	Compatible Lamp Types	Rating Watt	V/AC	Color Suffix
☐ OSW-P-010	Occupancy sensor & dimmer with LED Single pole/3-Way preset	0-10VDC LED/FLR	1200 2200	120 277	BK, G, LA, V, W
☐ VSW-P-010	Vacancy sensor & dimmer with LED Single pole/3-Way preset	0-10VDC LED/FLR	1200 2200	120 277	BK, G, LA, V, W

Compliances, specifications and availability are subject to change without notice.

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Product Dimensions

Coverage Diagram

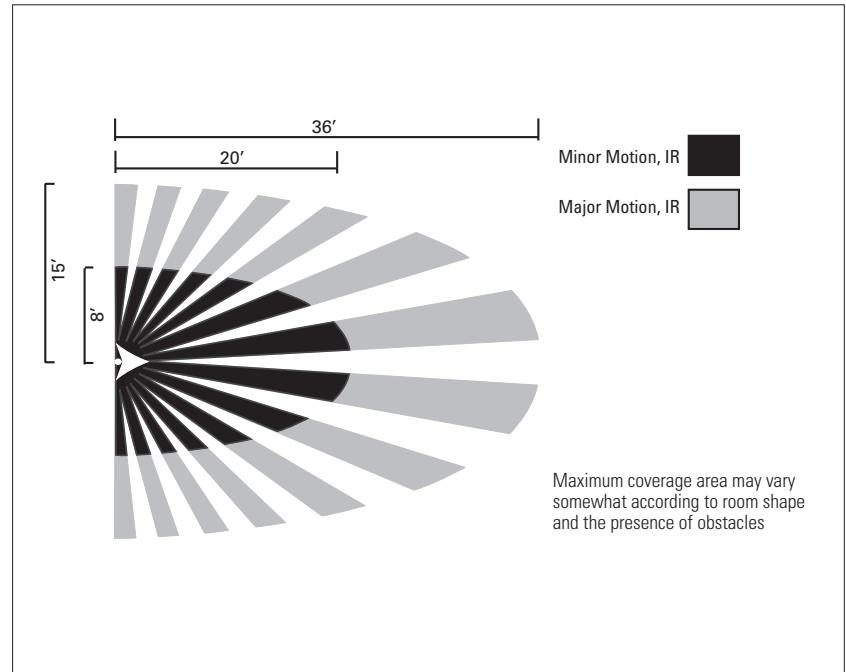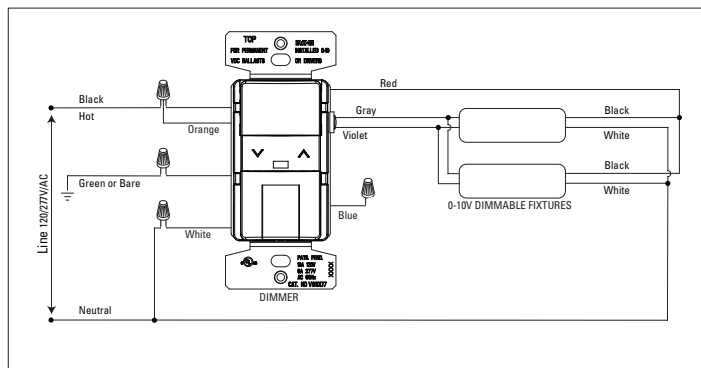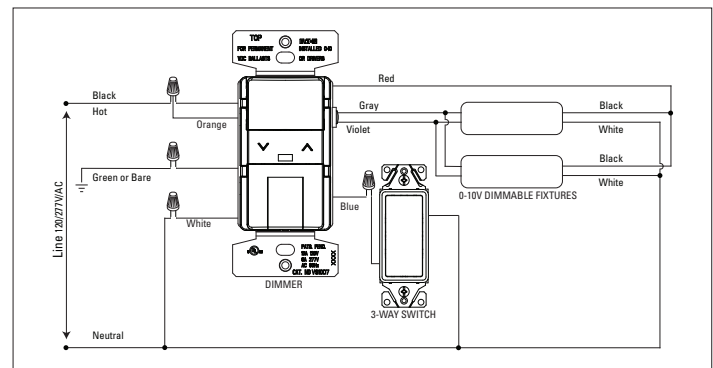Maximum coverage area may vary somewhat according to room shape and the presence of obstacles

Figure 1. OSW-P-010/VSW-P-010 Line Art with Dimensions

Wiring Diagrams

Single-Pole Wiring Diagram
FLR, LED

3-Way Wiring Diagram
FLR, LED

Applications

Cooper Lighting Solutions' 0-10V dimmer sensor is a 3 in 1 solution that combines functionality of a switchpack, a sensor and a 0-10V dimmer into one wallbox device, to help customers save labor costs as well as meet the latest energy codes and standards. Cooper Lighting Solutions' 0-10V dimmer sensor solution offers a convenient and cost effective way for users to satisfy commercial energy codes like ASHRAE 90.1 and California Title 20 that require designs that enable energy savings for Commercial facilities. Some of the requirements that can be met by a solution incorporating this device include Area Control, Automatic Lighting Shutoff, Manual ON or Partial ON (ASHRAE 90.1 only), Multi-level Lighting Control and Occupancy Sensor Control. This product can be used in Single-pole (one location) as well as 3-Way (multi-location) applications and is compatible with Cooper Lighting Solutions' decorator style devices and wallplates. This device also allows isolation of its relay for occupancy based control of external power packs.

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Table 2. Specifications

Catalog No.	**OSW-P-010, VSW-P-010 Series**
Device Type	**0-10V dimmer sensor**
Wiring Type	6" pre-stripped wire leads, #16 AWG
Testing & Code Compliance	• cULus Listed to UL244A & UL1472, file no. E325082 • NOM Certified • California Title 20 Compliant
Environmental Specifications	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature Rating:** 0ºC to 40ºC (32°F to 104°F)
Electrical Specifications	**Rating:** 120V/AC 277V/AC at 60 Hz **Light Intensity Control:** Full-range, continuously variable dimming **Surge Protection:** Meets ANSI/IEEE Std. C62.41, tested to withstand voltage surges up to 6000V and current surges of up to 3000A **Radio Frequency Interference:** Designed to reduce interference with radio, audio and video equipment **Power-failure Memory:** Light returns to ON at 50% or lower
Mechanical Specifications	**Wiring Types:** Single pole & 3-Way **LED Indicators:** To indicate motion **Voltage Ratings:** Permanently marked on device

Table 3. Materials

Catalog No.	**OSW-P-010, VSW-P-010 Series**
Top Housing	Polycarbonate
Bottom Housing	Polycarbonate
Strap	Aluminum
Form Factor	Decorator
Finish	Gloss

Table 4. Color Ordering Information

For ordering devices, include Catalog no. followed by the Color suffix: BK (Black), G (Gray), LA (Light Almond), V (Ivory), W (White)

BK	G	LA	V	W
(Black)	(Gray)	(Light Almond)	(Ivory)	(White)

Certifications & Compliances

Catalog No.	c(UL)us	NOM 426
OSW-P-010	•	•
VSW-P-010	•	•

KEY: c(UL)us cULus   NOM 426 NOM

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