0-10V dimmer sensor

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



OS10D7

Description

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

Design features

- Full-range Preset dimming control provided with horizontal dim/bright bar
- · Digital circuitry provides aesthetically pleasing soft ON/fade OFF
- Single green LED indicates motion
- Push pad design provides minimal travel and crisp actuation
- 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
- · Adjustable high-end and low-end trim setting
- Occupancy Sensor provides a selectable ambient light override preventing lights from switching ON when there is acceptable natural light
- Occupancy Sensor version allows to toggle between Auto ON/ Auto OFF or Manual ON/Auto OFF mode with a simple press and hold of switch
- Vacancy Sensor meets California Title 20
- · No leakage to load in OFF mode
- Uniform color matched PIR lens to device housing
- · Compatible with dimmable 0-10V LED and FLR ballasts
- · Neutral required for installation of device

Table 1. 0-10V Dimmer Sensor

		Compatible	Ra	ting	
Catalog No.	Description	Lamp Types	Watt	V/AC	Color Suffix
□ 0S10D7	Occupancy sensor & dimmer with LED Single pole/3-Way preset	0-10VDC LED/FLR	1200 2200	120 277	BK, GY, LA, V, W
□ VS10D7	Vacancy sensor & dimmer with LED Single pole/3-Way preset	0-10VDC LED/FLR	1200 2200	120 277	BK, GY, LA, V, W

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



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

Applications

Eaton's 0-10V dimmer sensor is a 3 in 1 solution that combines functionality of a switch, a sensor and 0-10V dimmer to help customers save labor costs as well as meet the latest energy codes and standards. Eaton's 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 and Residential facilities. Some of the requirements that can be solved by a solution incorporating this device involve Area Control, Automatic Lighting Shutoff, Daylight Control, Manual ON or Partial ON (ASHRAE 90.1 only), Multi-level Lighting Control and Occupancy Sensor Control. This product can be used in a single-pole (one location) and 3-way (multi-location) applications and is compatible with Eaton's decorator style devices and wallplates. Other features of the product include 180° field of view, selectable Occupancy and Vacancy modes and daylight sensing.

Table 2. Specifications

Catalog No.	OS10D7, VS10D7 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: 0°C to 40°C (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

OS10D7, VS10D7 Series
Polycarbonate
Polycarbonate
Aluminum
Decorator
Gloss
-

Table 4. Color Ordering Information

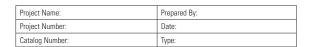
For ordering devices, include Catalog no. followed by the Color suffix: BK (Black), GY (Gray), LA (Light Almond), V (Ivory), W (White)



Certifications & Compliances

Catalog No.	c (UL) us	NOM 426
OS10D7	•	•
VS10D7	•	•

KEY: c ULus 426 NOM



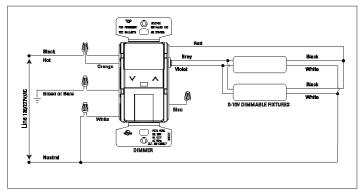
Product Dimensions

__1.80'___ |45.7 mm| TOP 0 .) П () 🗩 4.20* (108.7 mm) ٧ \wedge 3.21 (#13 mm) • Ĕ 0 (35.3 mm)

Figure 1. OS10D7/VS10D7 Line Art with Dimensions

Wiring Diagrams

Single-Pole Wiring Diagram FLR, LED



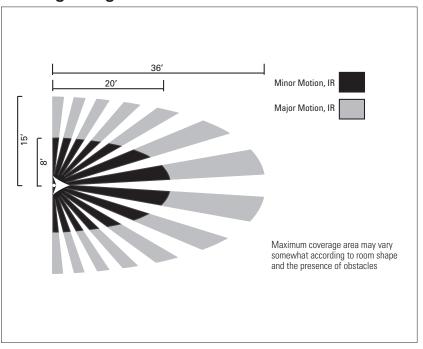
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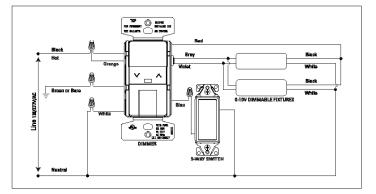
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3-Way Wiring Diagram FLR, LED



Coverage Diagram

