Greengate

0-10V Dual Tech Sensor Dimmer

Catalog#	Prepared by
Project	Date
Comments	Туре



OSW-D-010 VSW-D-010

Overview

Eaton's 0-10V Dual Tech Sensor Dimmer 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. Eaton's 0-10V Dual Tech Sensor Dimmer 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 aesthetically compatible with Eaton's decorator style devices and wallplates. This device also allows isolation of its relay for occupancy based control of external power packs.

Features

- Compatible with dimmable 0-10V LED and FLR ballasts
- Dual Technology Passive Infrared and Ultrasonic sensor technology
- Provides 180 degree field of view with 900 sq. ft. of major and 324 sq. ft. of minor motion coverage
- Selectable time delay of 15 seconds (Test mode), 5 minutes, 10 minutes, 15 minutes, 20 minutes (factory default), 30 minutes
- Full-range preset dimming control provided with horizontal dim/bright bar
- · Adjustable high-end and low-end trim setting
- Dual color LED motion indicators: Red LED indicates PIR motion, Green LED indicates Ultrasonic
- · Push pad design provides minimal travel and crisp actuation
- Digital circuitry provides aesthetically pleasing soft ON/fade OFF
- Occupancy Sensor version allows operations 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 Title 24 / ASHRAE 90.1
- No leakage to load in OFF mode
- · Easily configurable to suit specific applications
- · Neutral is required for installation of device
- Integrated photocell for daylighting
- Zero crossing for long relay life

Applications

- Private Offices
- Restrooms
- Closets
- Copy-rooms
- Small enclosed spaces



Specifications

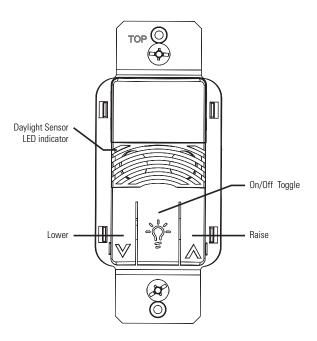
Technology	0-10V Dual Tech Sensor Dimmer Passive Infrared (PIR) and Ultrasonic (US) Single pole and 3-way	
Wiring type	8" pre-stripped wire leads, #16 AWG for Load and GND wires #18 AWG for all other wires	
Electrical Specifications	Rating: 8A 120/277VAC @ 60Hz (LED)	
	Light Intensity Control: Full-range, continuously vari dimming	able
	Class 2 dimming output section: 0-10 VDC, 80mA r current sink. 0-10V output supports up to 40 ballasts/ that draw the standard 2mA each	
	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	
	0-10VDC FLR and LED ballasts	
Mechanical Specifications	Mounting: 3-1/2" deep wall box	
	Wiring Types: Single pole and 3-way	
	LED Indicators: To indicate motion	
	Voltage Ratings: Permanently marked on device labe	el
Environmental Specifications	Temperature: 0°C to 40°C (32°F to 104°F)	
	Flammability: Meets UL 94 requirements; V2 rated	
	For indoor use only	
Housing	Durable, polycarbonate decorator housing with gloss finish	
Size	Mounting Plate/Strap Dimensions: 4.19"H x 1.73"W (106.55mm x 44mm)	
	Product Housing Dimensions: 2.7"H x 1.73"W x 2.19"D (68.5mm x 43.9mm x 55.62mm)	
Standards	cULus Listed to UL1472, file no. E325082 FCC Part 15 Class A California Title 20 Compliant	c 🖳 us



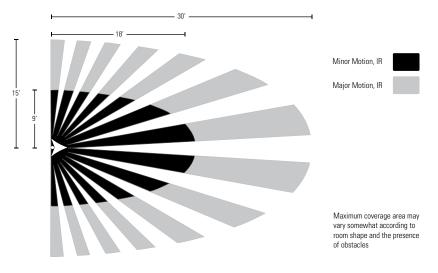
In Open-Loop Daylight Switching the daylight sensor measures the natural light contribution in order to automatically adjust lighting. The sensor switches the light off if enough ambient light is present and it switches the light on if there is not enough ambient light in the space.

Open-Loop Daylight Dimming Operation

In Open-Loop Daylight Dimming the daylight sensor measures the natural light contribution in order to automatically adjust lighting.

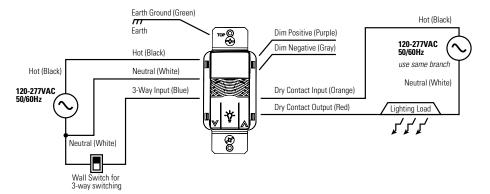


Coverage



Wiring Diagrams

Single-Pole Wiring Diagram FLR, LED





Ordering

		Compatible	Rating	
Catalog #	Description	Lamp Types	Watt	V/AC
OSW-D-010-*	0-10V Dual Tech Sensor Dimmer - Occupancy with LED Single pole/3-Way preset	0-10VDC	960	120
(*-B, G, LA, V, W, R)		LED/FLR	2200	277
VSW-D-010-*	0-10V Dual Tech Sensor Dimmer - Vacancy with LED Single pole/3-Way preset	0-10VDC	960	120
(*-B, G, LA, V, W, R)		LED/FLR	2200	277

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

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



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