

# Motion activated dimmer sensor

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

## Description

Single pole  
Incandescent, Halogen, Magnetic Low-Voltage

## Design features

- Soft ON/fade OFF
- Preset and light level change is easily shown with horizontal row of green LEDs
- Works with popular load types: Halogen, Incandescent and Magnetic Low-Voltage
- Single green LED indicates load status, provides locator light in dark and blinks to indicate motion detection
- 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 5 seconds (test), 5 minutes, 15 minutes and 30 minutes for lights to remain on after room is vacated
- Reverse Mode allows light to stay off in a room when motion is detected
- Occupancy Sensors time delay default set to 5 minutes; Vacancy Sensors time delay default set to 30 minutes
- 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
- Occupancy Sensor provides for a bypass feature to allow the sensor to perform as a traditional switch (Manual ON/Manual OFF)
- Electrostatic discharge protection
- No leakage to load in off mode
- Uniform color matched PIR lens to device housing
- Color change faceplate kits provide for a simple in field change
- Neutral required for installation of device
- California Title 20 compliant (VS106D1)



OS106D1



VS106D1

**Table 1. Occupancy & Vacancy Sensor Dimmers** 

Catalog No.	Description	Compatible Lamp Types	Rating		Color Suffix
			Watt	V/AC	
<input type="checkbox"/> OS106D1-__	Sensor & Dimmer with LEDs, Single Pole	INC/HAL, ELV, MLV	600	120	A, BK, GY, LA, V, W
<input type="checkbox"/> VS106D1__	Sensor & Dimmer with LEDs, Single Pole	INC/HAL, ELV, MLV	600	120	A, BK, GY, LA, V, W
<input type="checkbox"/> SCKD-__BP	Color Change Kit	----	----	----	A, BK, GY, LA, V, W



Powering Business Worldwide

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

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## Applications

Eaton's Dimmer Occupancy/Vacancy Sensors use advanced PIR technology to sense the movement of heat-emitting bodies. Occupancy Sensors provide Auto-ON/Auto-OFF or Manual-ON/Auto-OFF operation while Vacancy Sensors provide Manual-ON/Auto-OFF operation only (Title 20 2008 Compliant). The sensors automatically turn lights off after a space becomes vacant and a preset time delay elapses. Built-in dimmer provides preset full-range dimming of light load. A horizontal dim/bright bar with row of green LEDs provide intuitive control. Both versions provide Single Pole (single-location) wiring and work with Incandescent and Magnetic Low-voltage lighting load types. All sensors are compatible with any decorator-style or decorator screwless wallplate.

**Table 2. Specifications**

<b>Catalog no.</b>	<b>OS106D1, VS106D1 Series</b>
<b>Device type</b>	<b>Occupancy &amp; Vacancy Sensor Dual Switches</b>
<b>Wiring type</b>	6" pre-stripped wire leads, #14 AWG
<b>Testing &amp; code compliance</b>	<ul style="list-style-type: none"> <li>• cULus Listed to UL244A, file no. E325082</li> <li>• NOM Certified</li> <li>• California Title 20 compliant</li> </ul>
<b>Environmental specifications</b>	<b>Flammability:</b> Meets UL 94 requirements; V2 rated <b>Temperature Rating:</b> 0°C to 40°C (32°F to 104°F)
<b>Electrical specifications</b>	<b>Rating:</b> 120V/AC 60 Hz, 1/2 HP <b>Light Intensity Control:</b> Full-range, continuously variable dimming <b>Dimming Performance:</b> Smooth and continuous, Solid State Dimming <b>Surge Protection:</b> Meets ANSI/IEEE Std. C62.41-1980, tested to withstand voltage surges up to 6000V and current surges of up to 200A without damage <b>Radio Frequency Interference:</b> Designed to reduce interference with radio, audio and video equipment <b>Power-failure Memory:</b> Light or fan returns to same level prior to power interruption <b>Lamp Ratings:</b> Incandescent, Magnetic Low-Voltage, Halogen
<b>Mechanical specifications</b>	<b>Wiring Types:</b> Single Pole <b>LED Indicators:</b> Load status indicator, light level & locator <b>Air-Gap Switch:</b> Meets UL20 & UL1472 for inclusion of visible, accessible air-gap off switch <b>Voltage Ratings:</b> Permanently marked on device

**Table 3. Materials**

<b>Catalog No.</b>	<b>OS106D1, VS106D1 Series</b>
<b>Top housing</b>	Polycarbonate
<b>Bottom housing</b>	Polycarbonate
<b>Strap</b>	Aluminum
<b>Form factor</b>	Decorator
<b>Finish</b>	Gloss

**Table 4. De-Rating Chart - 600W Models**

Lamp Type	1-Gang	2-Gang	3-Gang
<b>INC</b>	600W	600W	600W
<b>MLV</b>	600VA	600VA	600VA

**Table 5. Color Ordering Information**

For ordering devices, include catalog no. followed by the color suffix: A (Almond), BK (Black), GY (Grey), LA (Light Almond), V (Ivory), W (White).

<b>A</b>	<b>BK</b>	<b>GY</b>	<b>LA</b>	<b>V</b>	<b>W</b>
(Almond)	(Black)	(Grey)	(Light Almond)	(Ivory)	(White)

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**Product Dimensions**

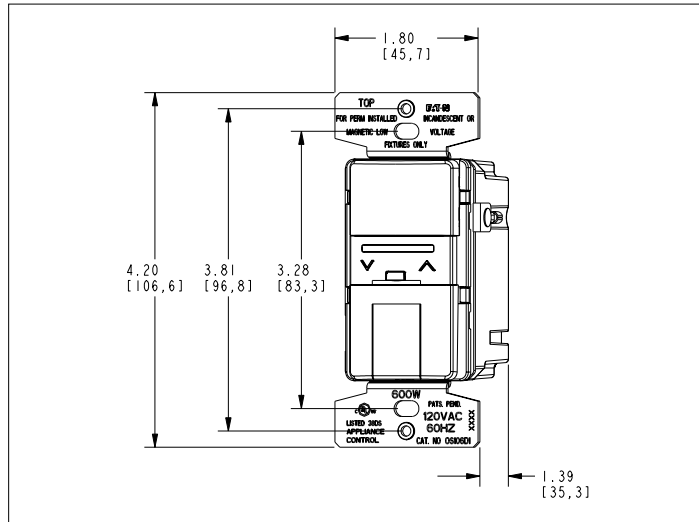
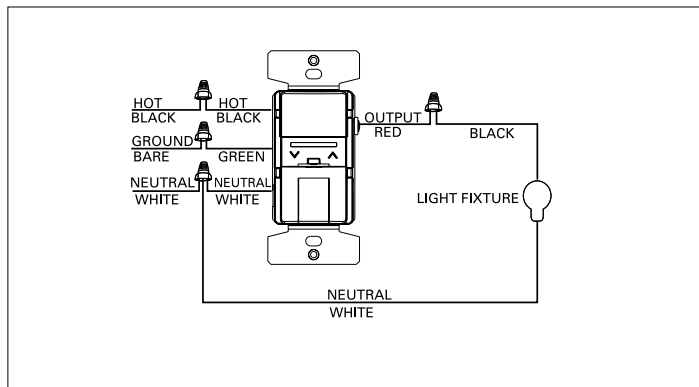


Figure 1. OS10D1 Line Art with Dimensions

**Wiring Diagrams**

**Single Pole Wiring Diagram**



**Certifications & Compliances**

Catalog No.	cULus	NOM 426
OS106D1	•	•
VS106D1	•	•

KEY: cULus cULus NOM 426 NOM

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