Motion sensor with dimmer

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

OSUL06D

VSUL06D

Description

Single / 3-Way
INC/HAL, MLV, LED, CFL, FLR, ELV

Design features

• Soft ON/fade OFF

• Preset and light level change is easily shown with horizontal row of green LEDs

• 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

• Reverse Mode allows light to stay off in a room when motion is detected

• Selectable time delay of 5 seconds (test), 5 minutes, 15 minutes and 30 minutes for lights to remain on after room is vacated

• 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 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

• Color change faceplate kits provide for a simple in field change

• Neutral required for installation of device

• California Title 24 compliant

• California Title 20 compliant (VSUL06D)

Table 1. Occupancy & Vacancy Sensor Dimmers

Catalog No.	Description	Rating Watt	V/AC	Color Suffix
☐ OSUL06D____	Occupancy Sensor with Dimmer	600	120	C2, C4, C5, C7
☐ VSUL06D____	Vacancy Sensor with Dimmer	600	120	C2, C4, C5, C7

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

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Applications

Eaton's Universal Motion Sensor is designed to reduce the number of devices required in a residential space by combining motion sensing, toggle and dimmer switching to a single solution. It allows users to increase/decrease light levels, while turning OFF and ON based on Occupancy. This product can be used in a single pole, or 3-way, configuration to work with all light loads (LED, CFL, HAL, FLR, INC, ELV & MLV). With compliance to California Title 20 and 24, this product allows customers to satisfy codes and standards requirements in a cost effective and reliable way. The solution requires a neutral connection and is compatible with any decorator-style or decorator screwless wallplate.

Table 2. Specifications

Catalog no.	OSUL06D, VSUL06D Series
Device type	**Occupancy & Vacancy Sensor with Dimmer**
Wiring type	Pre-stripped wire leads, Neutral Required
Testing & code compliance	• cULus Listed to UL244A, file no. E325082 • California Title 20 compliant (Vacancy Sensor) • California Title 24 compliant
Environmental specifications	**Flammability:** Meets UL 94 requirements; V2 rated **Temperature Rating:** 0ºC to 40ºC (32°F to 104°F)
Electrical specifications	**Power Requirement:** 120V/AC 60 Hz **Maximum load:** INC/HAL, VLV, MLV: 600W LED,CFL,FLR: 300W **Power-failure memory:** Returns to same level prior to power interruption **Switching Technology:** Solid state switching
Mechanical specifications	**Wiring Types:** Single pole & 3-Way **Detection Technology:** Passive Infrared (PIR) **LED indicators:** Load status indicator, light level & motion **Air-gap switch:** Meets UL20 & UL1472 for inclusion of visible, accessible air-gap switch **Voltage ratings:** Permanently marked on device
Operational specifications	**Time delay:** Adjustable, 5 min., 15 min., 30 min., Test **Coverage:** 1000 sq ft. 180° field of view **Operating Modes:** Automatic ON/Automatic OFF (OSUL06D) Manual ON/Automatic OFF (VSUL06D) **Voltage ratings:** Permanently marked on device

Table 3. Materials

Catalog No.	OSUL06D, VSUL06D Series
Top housing	Polycarbonate
Bottom housing	Polycarbonate
Strap	Aluminum
Form factor	Decorator
Finish	Gloss

Table 4. De-Rating Chart - 600W/3Models

Lamp Type	1-Gang	2-Gang	3-Gang
INC/HAL, ELV, MLV	600W	600W	600W
LED, CFL, FLR	300W	300W	300W

Table 5. Color Ordering Information

For ordering devices, include Catalog no. followed by the Color suffix: C2 (Color Change Kit: LA, W, V), C4 (Color Change Kit: BK, W, V), C5 (Color Change Kit: W, BK, GY), C7 (Color Change Kit: B, BK, GY)

LA	W	V		BK	W	V		W	BK	GY		B	BK	GY
C2 Color Kit				**C4 Color Kit**				**C5 Color Kit**				**C7 Color Kit**		
LA (Light Almond), W (White), V (Ivory)				BK (Black), W (White), V (Ivory)				W (White), BK (Black), GY (Gray)				B (Brown), BK (Black), GY (Gray)		

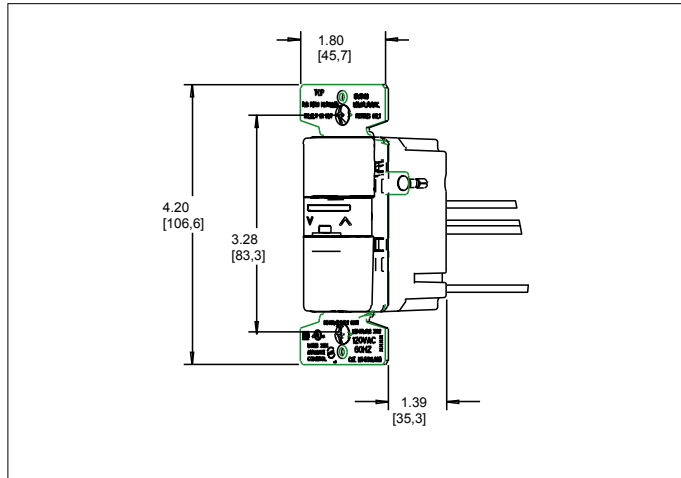| Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

Product Dimensions

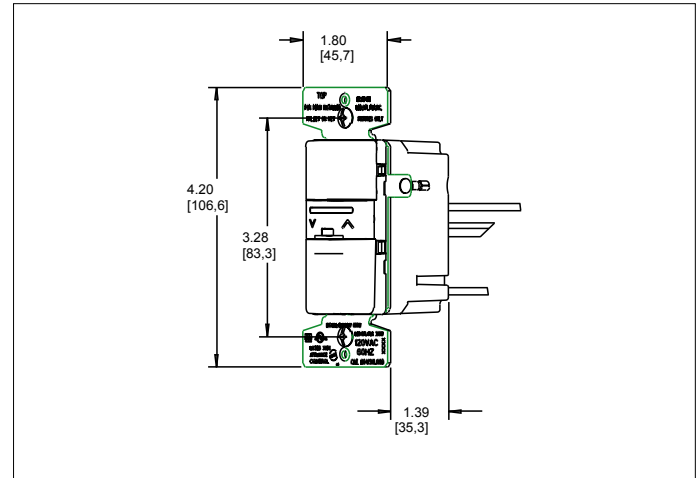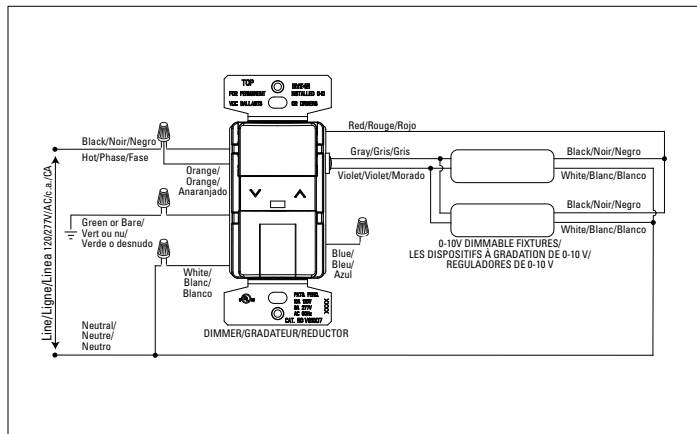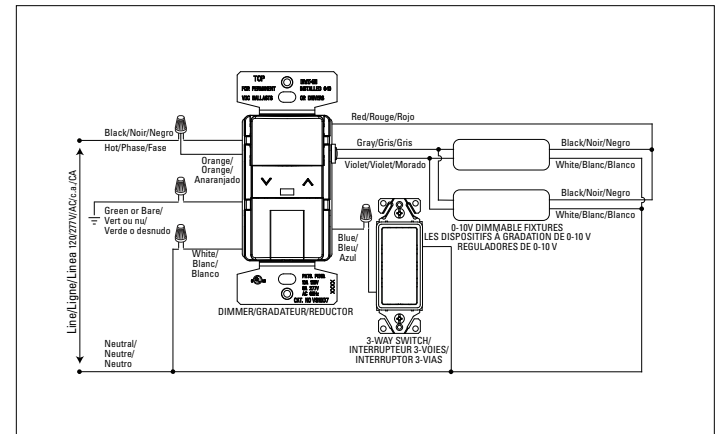**Figure 1. OSUL06D Line Art with Dimensions**

Figure 2. VSUL06D Line Art with Dimensions

Wiring Diagrams

Single Pole Wiring Diagram

3-Way Pole Wiring Diagram

Certifications & Compliances

Catalog No.	c(UL)us	NOM 426
OSUL06D__	•	•
VSUL06D__	•	•

KEY: c(UL)us cULus NOM 426 NOM

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