

# Passive Infrared (PIR) wall mount occupancy sensor

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

## Description

Single Relay, No Neutral  
 120/277V/AC  
 Incandescent, Halogen, CFL, LED, MLV, ELV  
 Fluorescent, Motor (1/2 HP)

## Design features

- Selectable Automatic ON mode or Manual ON mode
- Convenient installation and test mode for set-up
- Adjustable, built-in light level sensor
- Selectable time delay
- For use with incandescent lamps, halogen fixtures, electronic and magnetic fluorescent, CFL, LED electrical motor loads
- 120V and 277V in the same unit
- Single pole or 3-way wiring
- Manual OFF push button can be used in either automatic or manual mode
- Reinforced lens is tamper-resistant
- Zero-crossing technology to maximize relay life and ensure wall switch longevity
- Fits any decorator wallplate
- Can control low voltage switchpacks
- No neutral required
- California Title 20 compliant



OSP10M

**Table 1. Wire Leads – Wall Mount**

Catalog no.	Description	Compatible lamp types	Rating		Color suffix
			Watts	V/AC	
□ OSP10M	180° Passive infrared single relay occupancy sensor wall switch	INC/HAL	15A, 1800W/8A, 2200W	120	A, BK, GY, LA, V, W
		FLR, MLV	15A, 1800W/8A, 2200W	120, 277	A, BK, GY, LA, V, W
		CFL, LED, ELV	10A, 120W/8A, 2200W	120, 277	A, BK, GY, LA, V, W

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



Powering Business Worldwide

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## Applications

Eaton's passive infrared wallbox sensor provides a convenient energy saving lighting control alternative for 120V – 277V applications. The sensor includes light level sensing capability to further enhance the energy savings by preventing automatic control of the lights when the ambient light level is sufficient. This sensor is easily installed in any standard wallbox to control most lighting loads and is available in six colors.

**Table 2. Specifications**

Catalog No.	OSP10M Series
<b>Device Type</b>	<b>Passive Infrared Wall Mount Occupancy Sensor, OSP10M</b>
<b>Wiring Type</b>	Pre-stripped wire leads
<b>Testing &amp; Code Compliance</b>	Listed to UL 244A and 1472; CSA 22.2 No. 184.1 California Title 20 compliant
<b>Warranty</b>	2-year limited warranty
<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>Humidity Rating:</b> Relative humidity less than 90%, non-condensing <b>Operating Areas:</b> For indoor use only
<b>Electrical Specifications</b>	<b>Power Requirements:</b> 120/277 VAC @ 60 Hz <b>Maximum Load:</b> Incandescent/halogen @120V: 15A, 1800W, 60Hz Fluorescent @120V: 10A, 1200W, 60Hz Fluorescent @277V: 8A, 2200W, 60Hz Motor @ 120V: 1/2 HP
<b>Mechanical Specifications</b>	<b>Detection Technology:</b> Passive Infrared and Ultrasonic <b>Mounting:</b> NEMA wall box <b>LED Indicating Lamp:</b> Green
<b>Operation Specifications</b>	<b>Time Delay:</b> Adjustable, 5 min., 15 min., 30 min., Test <b>Coverage:</b> 1000 sq ft. 180° field of view <b>Operating Modes:</b> Automatic On/Automatic Off Manual On/Automatic Off

**Table 3. Materials**

Catalog No.	OSP10M Series
<b>Lens</b>	Reinforced, tamper-resistant fresnel lens
<b>Housing</b>	Injection molded polycarbonate resin housing

**Table 4. Dimensional Data**

Catalog No.	OSP10M Series
<b>Mounting Plate</b>	4.20"H X 1.80"W (10.67cm x 4.57cm)
<b>Product Housing</b>	2.60"H X 1.55"W X 1.85"D (6.62cm x 3.95cm x 4.72cm)

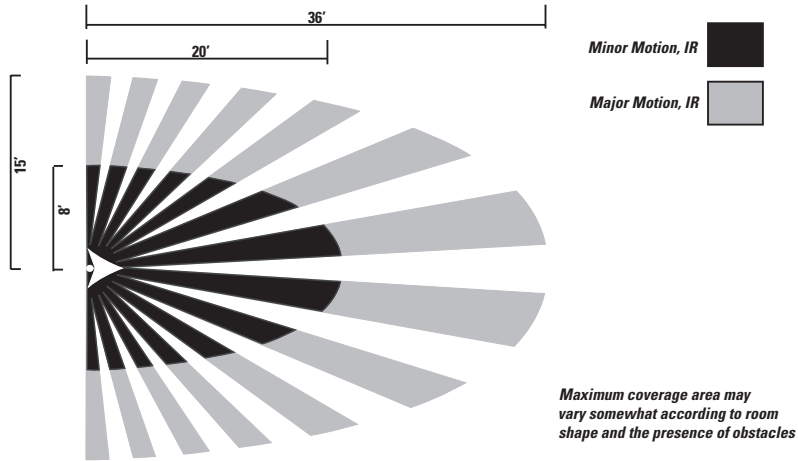
**Table 5. Color Ordering Information**

For ordering devices, include Cat. No. followed by the color code: A (Almond), BK (Black), GY (Gray), LA (Light Almond), V (Ivory), W (White)

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

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### Coverage Pattern



### OSP10M Wiring Diagrams

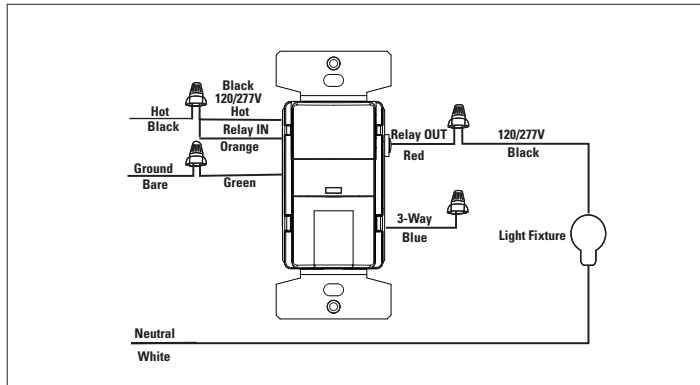


Figure 1. Sensor in one location (non-isolated)

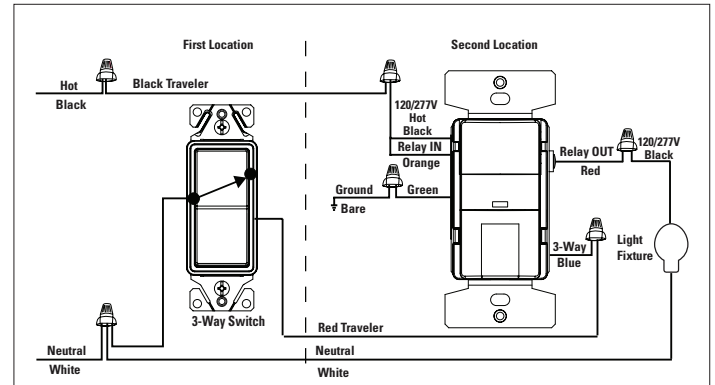


Figure 2. Switch in location with hot wire

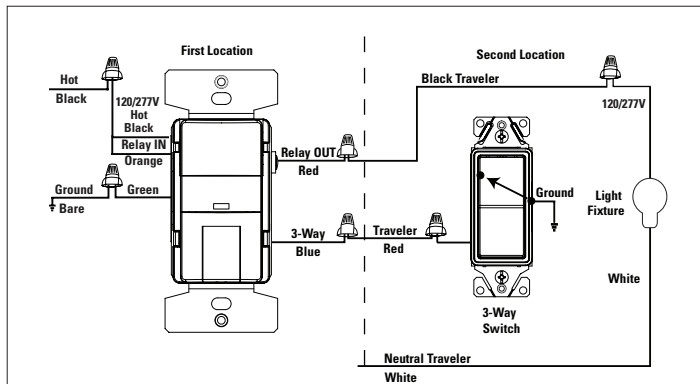


Figure 3. Sensor in location with hot wire

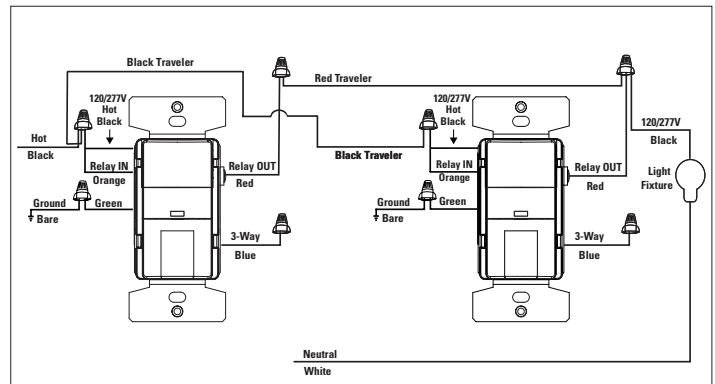



Figure 4. Sensors in both locations

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## Certifications & Compliances

<b>Catalog No.</b>			
OSP10M	•	•	•

**KEY:**  cULus  NOM  ROHS  Title 20 compliant

 Parts are manufactured and designed in accordance with article 4 of the European Union's RoHS2 directive 2011/65/EU

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