

High Bay Fixture Mount Sensor 120-277 VAC

Model # OEF-P-2HMO-MV-S
Model # OEF-P-2HMO-MV-B
Model # OEF-P-2HMO-MV-B6

GENERAL INFORMATION

- Read all instructions on both sides of this sheet first.
- Plan all component locations carefully.
- Install in accordance with all local codes.
- For use with 120-277 VAC only.
- Not for use where temperatures fall below 60° F or exceed 90° F.
- For indoor use only.

CAUTION: Before installing or performing any service on a Greengate system, the power **MUST** be turned off at the branch circuit breaker. According to NEC 240-83(d), if the branch circuit breaker is used as the main switch for a fluorescent lighting circuit, the circuit breaker should be marked "SWD."

NOTE REGARDING COMPACT FLUORESCENT LAMPS: The life of some compact fluorescent lamps (CFLs) is shortened by frequent automatic or manual switching. Check with CFL and ballast manufacturer to determine the effects of cycling.

DESCRIPTION OF OPERATION

The OEF-P-2MHO-MV-* sensors control fluorescent fixtures and can be mounted directly to the fixtures via a 1/2" knockout or using the mounting adapter (ACMB) which allows you to position the sensor specific to the application.

The nipple on the OEF-P-2MHO-MV-* attaches with a lock nut through a 1/2" knockout on the fixture or on a junction box and all wiring passes through the same knockout.

The OEF-P-2MHO-MV-* is designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights on and off. Lights will remain on until no motion is detected and a preset time delay has expired. If no motion is detected during the time delay, the relay is opened, turning the load off.

The OEF-P-2MHO-MV-* includes a self-adjusting feature that will maintain optimum performance by automatically self-adjusting sensitivity and time delay in real time based on occupant activity.

After the installer test, the OEF-P-2MHO-MV-* will automatically set itself to the default 10-minute time delay, five minutes after the lights are shut-off automatically.

At installation, the OEF-P-2MHO-MV-* will scan the coverage area to determine the optimum sensitivity setting.

The OEF-P-2MHO-MV-* will continue to self-adjust its sensitivity and time delay automatically and immediately, eliminating the need to "learn" behavior patterns over time and reducing the need for follow up adjustments. If desired, a concealed potentiometer allows the user to select a time delay from 15 seconds (installer test) to 30 minutes.

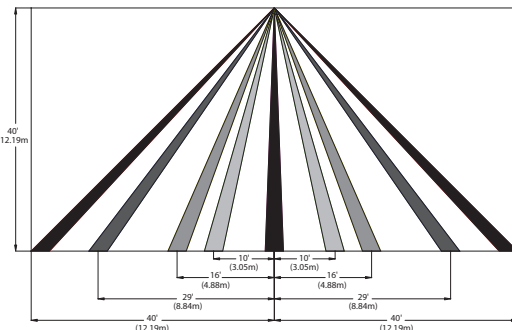
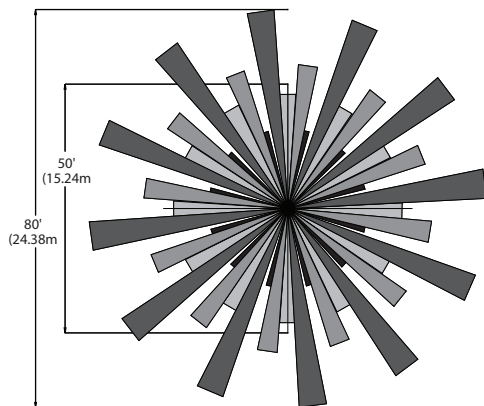
In applications where significant daylight is available, integrated photocell may be used.

When the space is occupied and the light level is below the "setpoint", the lights turn on.

In applications where HID bi-level fixtures are present, the OEF-P-2MHO-HID-MV-B is the appropriate selection.

COVERAGE

The OEF-P-2MHO-MV-* is designed for applications up to 40 feet in height with a coverage diameter of twice the mounting height (2MH).

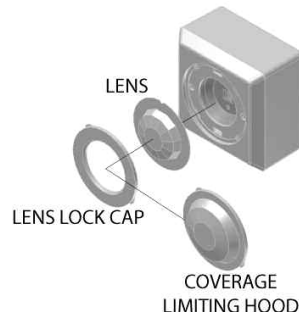
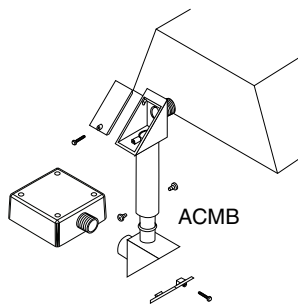
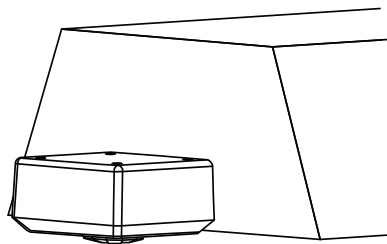


INSTALLATION

These sensors control fluorescent fixtures including T5, T5HO, and T8 and can be mounted directly to the fixtures via a 1/2" knock out or using the mounting adapter (ACMB) which allows you to position the sensor specific to the application. The nipple on the sensor attaches with a lock nut through a 1/2" knockout on the fixture or on a junction box and all wiring passes through the same knockout. When mounted, the lens on the sensor must point directly at the floor and be parallel to it.

Note: Some fixtures may block part of the sensor's signal. Check position of sensor in relation to fixture to determine if extender is needed to reposition sensor. Shelving generally prevents coverage from spilling into adjacent aisles, but if needed, coverage limiting hoods can be used to mask the sensor's lens to block portions of the coverage area. In order to change the viewing pattern from the default 360 degree viewing pattern, slip a small screwdriver under the lens lock cap—the ring around the lens. You will be able to pop off the cap and replace it with a new coverage limiting hood.

Mounting:



RATINGS

120 VAC Incandescent or Fluorescent
Maximum Load: 800 Watts, 6.7 amps, 50/60 Hz

240-277 VAC Fluorescent/Ballast
Maximum Load: 1200 Watts, 4.3 amps, 50/60 Hz

Note: No minimum load requirement.

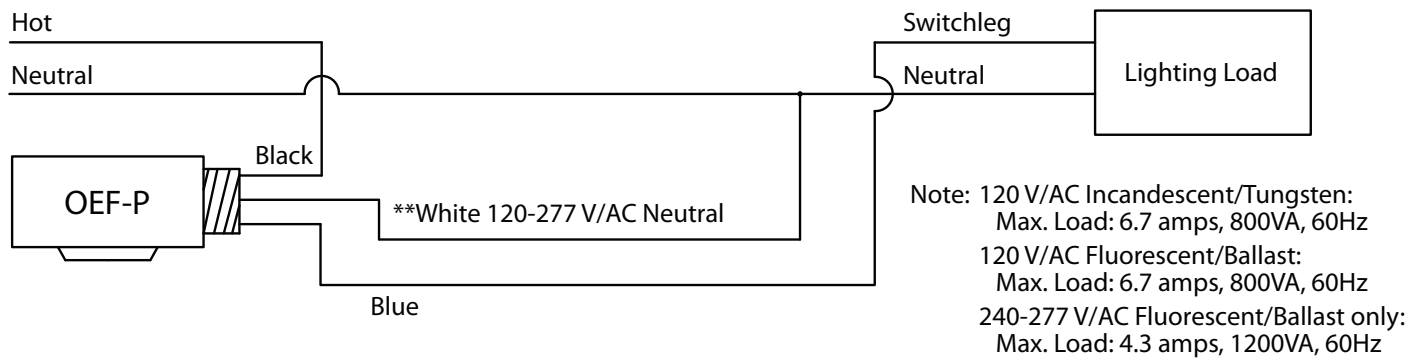
WIRING

- The OEF-P-2MHO-MV-* has a 120 VAC or 277 VAC hot lead (black), a switch leg (blue), and a neutral (white).
- DO NOT exceed contact ratings listed on the Sensor label.
- Wire the Sensor(s) and load as shown in the Wiring Diagram.

CAUTION: For use with 120-277 VAC only. Do not use with any other voltage. Do not wire to control receptacle circuits.
Ballast Compatibility: Compatible with magnetic and electronic ballast.

VERIFY that the connected load does not exceed the OEF-P-2HMO-MV-* ratings. Use twist-on wire connectors for all connections. All installations should be in compliance with the National Electric Code and all state and local codes.

WIRING DIAGRAMS



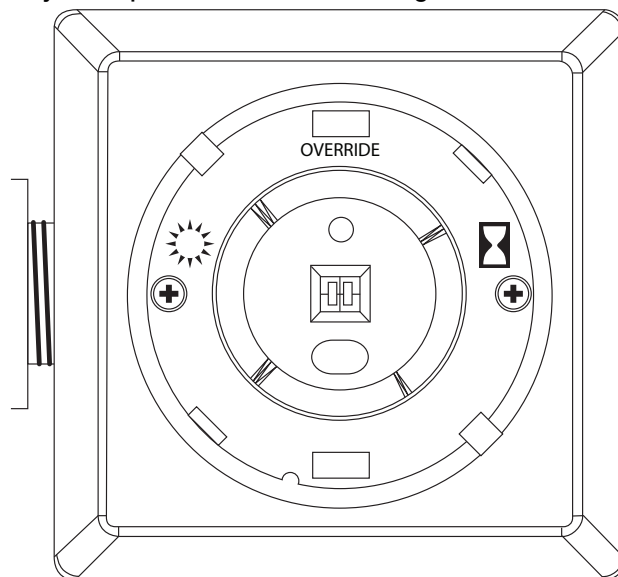
CHECKOUT AND ADJUSTMENT

Immediately after applying power to the lighting circuit, wait approximately one to two minutes for the OEF-P-2MHO-MV-* to power up and stabilize. Important, there is an initial warm-up period: It may take up to a minute before the lights turn on due to a sensor warm-up period required during initial power-up. This occurs during installation or after a lengthy power failure only. There is no immediate need to make further adjustments. The Time Delay, when set at the installer setting, will reset itself to a 10-minute Time Delay five minutes after the lights are shut off automatically.

Leave the coverage area. The lights should go out in approximately 15 seconds. Walk normally back into the coverage area and verify that the lights turn on automatically.

The LED lights only when the Sensor is detecting motion. If the LED blinks when there is no movement in the room, it is possible that the OEF-P-2MHO-MV-* is being activated by air flow from the HVAC system or other climate control device. If possible, relocate the OEF-P-2MHO-MV-* at least six feet away from any climate control device. If the OEF-P-2MHO-MV-* is activated by passers-by in an adjacent aisle, decrease the Sensor's field-of-view using the supplied coverage limiting hoods.

If desired, the potentiometer under the lens cover can be used to select a time delay from 15 seconds to 30 minutes.



Light Level Setpoint (Potentiometer):

The light level setpoint is factory preset at maximum (override) with the potentiometer in the fully clockwise position. In order to force the lights off when there is enough ambient light, turn the potentiometer counter-clockwise slowly until the lights turn off. This is best done at the time of day when the ambient light level is appropriate for the workspace. Adjustments should be made in small increments.

SYMBOL	FUNCTION	KNOB SETTING	FACTORY DEFAULT SETTING
	Delayed - Off Time	Full CCW = min. (15 sec.) Full CW = max. (30 min.)	0% (15 sec.)
	Ambient Light Override	Full CW - Lights stay OFF Full CCW - Lights always turn ON (NO ambient light override) Range - 0-200 Footcandles	100%

TROUBLE SHOOTING GUIDE

LED will not turn ON:

- Verify that the **Bypass Jumper** is on.
- Verify voltage to sensor is correct.
- If the voltage is OK, recheck all wiring and connections.
- If the LED still doesn't operate, the Sensor is defective and should be replaced.

Lights will not turn ON:

- Confirm that no other switches or equipment are interrupting or bypassing power to the load or fixture.
- If the lights do not turn on, the Sensor is defective and should be replaced.

Lights will not turn OFF:

If the lights will not turn OFF after the time period set on the Sensor, and the LED has not lit during the time period: Remove the lens cap and lens and, using a small screwdriver, turn the time delay potentiometer to its maximum setting, then sweep it back down to the minimum (installer test) setting. Watch the LED to confirm it is blinking in response to motion. Leave the coverage area. If lights do not turn off in 15 seconds, the sensor is defective and should be replaced.

Bypass Jumper

The OEF-P-2MHO-MV-* has a bypass jumper designed to turn the load on in the event of Sensor failure when the Sensor cannot be replaced immediately. In case of sensor failure, remove the lens cap and lens and remove the jumper.

LIMITED WARRANTY

All products manufactured by Cooper Controls and identified with the Greengate brand are warranted to be free from defects in material and workmanship and shall conform to and perform in accordance with Seller's written specifications for a period of :
Five (5) years from date of shipment for all occupancy sensors and Three (3) years from date of factory invoice for our hardware and software on Lighting Control Panels. We warranty all our standard relays for a period of 10 years from date of factory invoice. We guarantee the performance of our system to specifications or your money back. This warranty will be limited to the repair or replacement, at Seller's discretion, of any such goods found to be defective, upon their authorized return to Seller. This limited warranty does not apply if the goods have been damaged by accident, abuse, misuse, modification or misapplication, by damage during shipment or by improper service. There are no warranties, which extend beyond the hereinabove-limited warranty, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS. No employee, agent, dealer, or other person is authorized to give any warranties on behalf of the Seller or to assume for the Seller any other liability in connection with any of its goods except in writing and signed by the Seller. The Seller makes no representation that the goods comply with any present or future federal, state or local regulation or ordinance. Compliance is the Buyer's responsibility. The use of the Seller's goods should be in accordance with the provision of the National Electrical Code, UL and/or other industry or military standards that are pertinent to the particular end use. Installation or use not in accordance with these codes and standards could be hazardous.