Specifications

- Used for energy savings and convenience. When motion is detected, the blue wire is electronically connected from the red, causing the relay to open turning OFF the load. The red lead is 10-30 VDC supply, the black lead is common, and the blue is the relay control.

- For indoor use only

- Do not run any Greengate Low Voltage Wiring in the same conduit as power conductors.

Coverage

Coverage diagrams showing the range of the sensor's coverage area. The diagrams illustrate how the coverage changes with different mounting heights and orientations.

Location

The maximum coverage area may vary somewhat according to room shape and the presence of obstacles. Follow the coverage diagram concerning major and minor motion coverage. The sensor must have a clear view of the area to be controlled. The sensor will not “see” through glass. Mounting height should not exceed 12 feet. Optimum mounting height is 8 to 10 feet. Avoid pointing into hallways. Mounting at fixture height is most effective. To prevent false activation, the sensor should be mounted away from the air supply duct a minimum of 4 to 6 feet.

Installation

The OAC-P sensor can be mounted to the ceiling, junction box, or round fixture with raceway.

Wiring

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 “5000.” All installations should be in compliance with the National Electric Code and all state and local codes.

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

1. Make sure power is turned OFF at the branch circuit breaker.
2. Wire units as shown in wiring diagrams per applicable voltage requirements. Use twist-on wire connectors for all connections. CAP ALL UNUSED WIRE LEADS.
3. Mount unit to ceiling, junction box, or round fixture with raceway.
4. Turn power back ON at the branch circuit breaker and wait 2 minutes for the unit to stabilize.
5. Make necessary adjustments. (See Checkout and Adjustments section)

One Sensor, One Switchpack

Manual or Automatic-On Control of Two Standard Switchpacks
Checkout and Adjustment

LED Indicators Functionality

During Installer/Test Mode

- LEDs will flash once per 1/4 second
- Duration: 10 minutes

While in User Mode

- LEDs will flash once per second
- Duration: 10 to 30 minutes

Adjustments should be made with the HVAC system ON. Use only insulated tools to make adjustments.

Self-Adjust

- Sensor is shipped in the Self-Adjust Mode. This applies to Time Delay and PIR sensitivity. In preparation for the installer Test, the time delay is set to 15 seconds, after the sensor is installed, powered-ON and has stabilized, the unit will Time-out 15 seconds after the last motion detected. Coverage and sensitivity can be confirmed by watching the Passive Infrared (PIR) indicator LEDs on the front of the sensor, while moving around the room.

1. Walk around the room and monitor LEDs. LEDs should only turn ON for 1/4 second with each motion. (If the LED does not turn ON, go to Installer Adjustments - Sensitivity Adjustments Section).

2. Stand still six to eight feet away from the sensor for five seconds. LEDs should not turn ON. (If any LED turns ON, note LED and go to installer Adjustments - Sensitivity Adjustment Section).

3. Walk outside the room and wait 15 seconds for the lights to turn OFF. (If lights do not turn OFF, go to installer Adjustments Section).

4. Re-enter the room to activate sensor. (If lights do not turn ON go to Troubleshooting Section).

5. The unit will remain in Test Mode for 10 minutes then automatically exit Test Mode and go for 10 min. Time Delay User Mode setting.

Note:

- To enter into Test Mode, toggle Dip Switch 10 out of its current position, wait 3 seconds, and then back in to its original position. To return into installer User Mode move Dip Switch 1 and 2 down. (If Dip Switch 1 and 2 are already down, toggle Dip Switch 10 out of its current position, wait 3 seconds, and then back in to its original position While in installer Mode, the LEDs will flash once per 1/4 second).

Installer Adjustments

Sensitivity Adjustments

PIR Sensitivity

- Stand in different areas of the room and wave your hands.
- If the Red LED does not turn ON, check for any obstructions.
- Stand still six to eight feet away from sensor for five seconds. LED should not turn ON.
- If Red LED turns OFF without motion or is constantly ON adjust PIR sensitivity to 50% by moving Dip Switch 5 up.

Field-of-view outside the space

1. Adjust PIR sensitivity to 50% by moving Dip Switch 5 up.

Daylight Adjustments (-R Model Only to 300 foot-candle)

1. If this feature is not needed, leave the light level at maximum (fully clockwise).

2. The Daylighting feature prevents the lights from turning ON when the room is automatically illuminated by natural light. If there is enough light in the room in the room regardless of occupancy, the sensor will hold the lights OFF. If there is not enough light in the room, the sensor will allow the lights to turn ON when occupied.

Full and Half Logic Modes (-R Model Only) 50% Daylighting:

In both Full and Half Logic modes, lights connected to the yellow control lead will turn ON upon occupancy activation, should the ambient light level exceed the preset foot-candle level.

Troubleshooting

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If lights will still not turn ON, set sensor to override mode and call Technical Services at 1-800-563-3879

Limited Warranty

All products manufactured by Cooper Controls and identified with the Greenline 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 of Lighting Controls. We warrant all our standard products for a period of ten 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 return authorized by 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 statements herein limited warranty. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES 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 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 Buyer’s responsibility. The use of the Seller’s goods should be in accordance with the provisions of the National Electrical Code, UL, and other industry or military standards that are pertinent to the particular use. Installation or use not in accordance with these codes and standards could be hazardous.

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Designated as a Greenline System by The Lehigh Valley Energy Efficiency Program

The Overide setting allows the lights to remain on in the unlikely event of sensor failure.

1. Move Dip Switch 8 up.

(While in Override mode, the optional low voltage momentary switch(es) will toggle the lighting loads).

Overide

- Make sure sensor is not in Override Mode (Dip Switch 8 up).

Override

- Make sure sensor is not in Override Mode (Dip Switch 8 up).