

INSTALLATION MANUAL FOR SENPIR-CM-01 PIR OCCUPANCY SENSOR

SAVE THESE INSTRUCTIONS - READ ALL INSTRUCTIONS CAREFULLY



WARNING



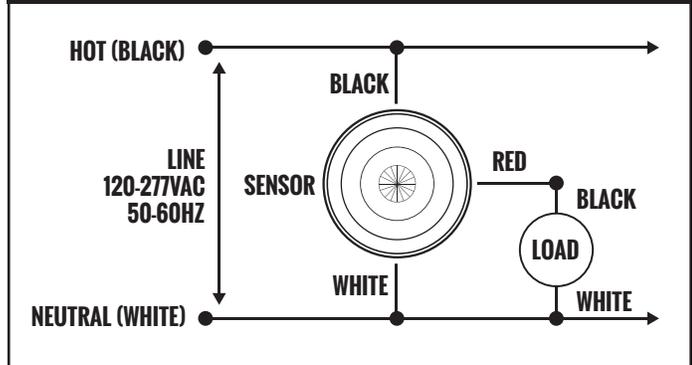
WHEN USING ELECTRICAL DEVICES, SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED.

- Disconnect power to sensor by turning OFF the circuit breaker or removing the fuse from the circuit before installing the SENPIR-CM-01 PIR Occupancy Sensor.
- **CAUTION - FOR YOUR SAFETY:** IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

AVOIDING HVAC TURBULENCE

When Heating, Ventilating or Air Conditioning (HVAC) units are turn on, they create turbulence which can cause the sensor to activate. It is important that the sensor and HVAC unit be separated by 6ft. In addition, it is also recommended NOT to mount the SENPIR-CM-01 PIR Occupancy Sensor directly under a large light source. Large wattage bulbs (greater than 100W incandescent) give off a lot of heat and switching the bulbs causes a temperature change that can be detected by the device. Mount the SENPIR-CM-01 PIR Occupancy Sensor at least 6ft away from large bulbs.

WIRING DIAGRAM (FIG. #2)



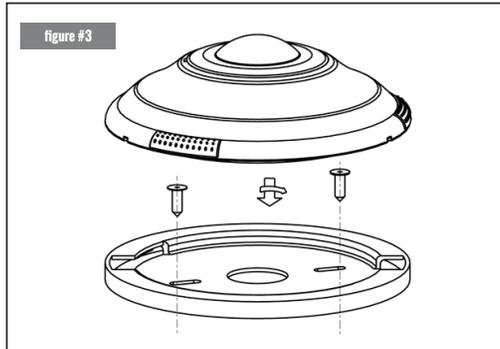
MOUNTING INSTALLATION INSTRUCTIONS - (SAVE INSTRUCTIONS FOR FUTURE REFERENCE).

INSTALLATION GUIDE

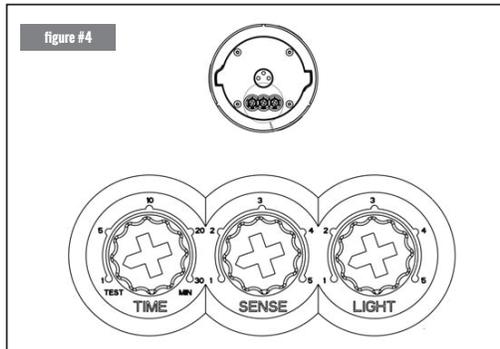
1. **Determine the best location for the sensor.**
Install the sensor at least 6ft. away from fluorescent ballasts and HVAC ducts, and at least 6ft. away from incandescent fixtures and HVAC diffusers. Install in a standard NEMA single-gang box.
2. Cut a 1-1/2" diameter hole in the ceiling beneath the single-gang box installed.
3. Remove approximately 3/4" (1.9 cm) of insulation from circuit wires.
4. **Connect wires as per the WIRING DIAGRAM as follows:** BLACK lead to LINE (HOT); RED lead to LOAD; WHITE lead to NEUTRAL. Twist strands of each lead tightly, push firmly into the appropriate wire connector, screw connector on clockwise making sure that no bare wire shows below the connector. Secure each wire connector with electrical tape. (Refer to Fig #2)
5. Find the back of sensor (Refer to Fig #4). Set Time-Delay, Light and Sensor as detailed in the SENSOR ADJUSTMENT & PROGRAMMING section.
6. Restore power at circuit breaker or fuse.

INSTALLATION IS COMPLETE.

HARDWARE INSTALLATION (FIG #3)



SENSOR ADJUSTMENT/PROGRAMMING (FIG #4)



SENSOR ADJUSTMENT/PROGRAMMING

TIME: Time-Delay Adjustment. When vacant, the load can still work within the set time period. It can be adjusted from 10 seconds up to 30 minutes. Minimum 15 seconds, Maximum 30 minutes.
The Time should be reduced only in heavy traffic areas such as hallways, kitchens, copier rooms, offices etc. to achieve maximum energy savings. Keeps the time setting at a maximum in large rooms (over 400sq.ft.).

SENSOR: Sensitivity Adjustment. According to ambience, you can set a suitable sensitivity to detect people. Minimum sensitivity is weakest, in this case it requires large human action to open the load. Maximum sensitivity, it requires small human action to open the load.

LIGHT: Light Level Sensing Adjustment. When the sensor is on automatic state, you can adjust the brightness value when the sensor starts to work. The left is for dark environment and the right is for bright environment.

TROUBLESHOOTING

LIGHTS WILL NOT TURN ON

- Circuit breaker or fuse is OFF: Turn the breaker ON. Ensure the lights being controlled are in working order (i.e., working bulbs, ballasts, etc.)
- Sensor is wired incorrectly or may be defective: Confirm that the sensor's wiring is correct and there are no problems visually.
- Lens is dirty or obstructed: Inspect the lens visually and clean if necessary

LIGHTS WILL NOT TURN OFF

- Sensor is wired incorrectly or may be defective: Confirm that the sensor's wiring is correct and there are no problems visually.
- Sensor may be mounted too closely to an air conditioning or heating vent.
- The line voltage has dropped: Perform the necessary tests to ensure the line voltage has not dropped beneath 100V.

LIGHTS TURN OFF AND ON TOO QUICKLY

- Sensor may be mounted too closely to an air conditioning or heating vent.
- Time delay set improperly: Adjust the TIME DELAY