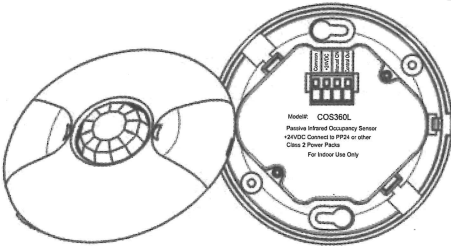


INSTALLATION INSTRUCTIONS

COS360L

360° Passive Infrared Low Voltage Occupancy Sensor
With Light Level Feature



SPECIFICATIONS

Voltage	24VDC
Current Consumption	9mA
Power Supply	PP24 Power Packs
Operating Temperature	32° to 131°F (0 to 55°C)
Adjustable Light Level	10FC-150FC
Adjustable Time Delay	5 sec.-30min (DIP switch)
Walk-Through Mode	3 minutes if no activity after 30 sec.
Test Mode	5 sec. upon initial power-up or DIP switch reset
PIR Coverage:	
Sensitivity Adjustment	Automatic or Low (DIP switch)
Coverage	Up to 1200 ft ²

DESCRIPTION

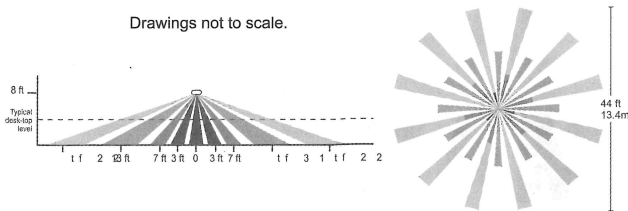
The COS360L 360° passive infrared (PIR) occupancy sensor turns lighting systems on and off based on occupancy and ambient light levels. The light level feature keeps lights from turning on if the ambient light level is sufficient.

The sensors can be configured to turn lighting on, and hold it on as long as the sensor detects occupancy. After no movement is detected for a user specified or Autoset time (5s to 30 minutes) the lights are switched off. A "walk-through" mode can turn lights off after only 3 minutes, if no activity is detected after 30 seconds of an occupancy detection.

The COS360L operates on 24V supplied by PP24 Power Packs.

COVERAGE PATTERN

The COS360L provides a 360° coverage pattern, up to 1200 square feet. The coverage shown represents walking motion at a mounting height of 8 feet. For building spaces with lower levels of activity or with obstacles and barriers, coverage size may decrease.

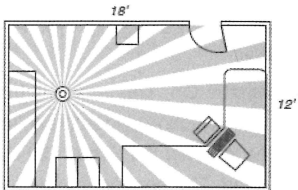


PLACEMENT GUIDELINES

Depending upon obstacles such as furniture or partitions, the area of coverage may be less or more than the sensing distances shown in the coverage pattern. This must be considered when planning the number of sensors and their placement. It is also recommended that sensors are placed 4 to 6 feet away from air supply ducts, as rapid air currents or differences in temperatures may cause false activations.

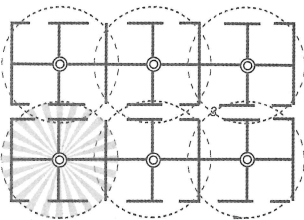
Mount the sensor to the ceiling. The COS360L is designed for a ceiling height of about 8-10 feet. Mounting above or below this range will significantly affect the coverage patterns. Be aware that as you decrease the mounting height, you decrease the range and increase the sensitivity to smaller motions. Conversely, when you increase the height, you increase the range and decrease the sensitivity to smaller motions. At heights of more than 12-14 feet, you may start to significantly reduce sensitivity. As a general rule, each occupant should be able to clearly view the sensor.

Often the best location to install a COS360L in a closed office is off-center. Avoid placing a sensor directly in line with an open door through which it has a clear view out, as the sensor may detect people walking by.



Open Office Area Coverage:

To get complete coverage in an open office area, install multiple sensors so that there is an overlap with each adjacent sensor's coverage area.

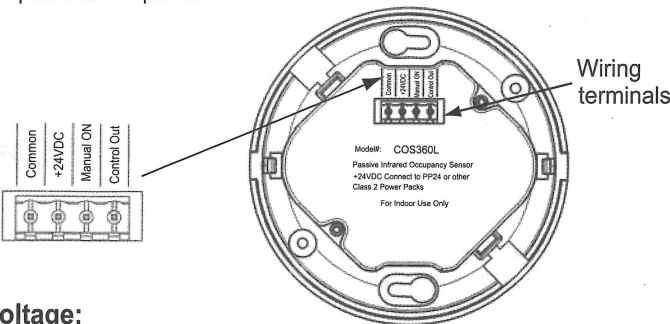


For large areas of coverage use multiple sensors.

WIRING DIRECTIONS

CAUTION!
TURN POWER OFF AT THE CIRCUIT BREAKER BEFORE INSTALLING POWER PACKS OR SENSORS.

Each PP24 power pack can supply power for 6 COS360 L sensors. When using more sensors than this, multiple power packs are required.



Connect the low voltage:

RED wire (+24VDC) from power pack to the +24V terminal on the sensor.
BLACK wire (Common) from power pack to Common terminal on the sensor.

Wiring a SINGLE LIGHTING LOAD CONTROLLED BY OCCUPANCY - Connect:
BLUE wire from power pack to Control Out terminal on sensor.

Wiring multiple SINGLE LIGHTING LOADs CONTROLLED BY OCCUPANCY, DEPENDENT ON LIGHT LEVEL (AMBIENT LIGHT) - Connect: BLUE wire from power pack to Control Out terminal on sensors.

To add a MANUAL SWITCH (any momentary wall switch will work) to the above applications simply connect:

1. Wire from one side of switch to Common terminal on sensor.
2. Wire from other side of switch to Man Switch terminal on sensor.

LIGHT LEVEL FEATURE

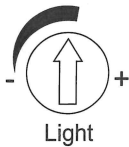
Turn the potentiometer on the sensor to "-" if adequate ambient light exists, the output of sensor will be inhibited, and the load cannot be on; only when the ambient light is down to a certain level will the sensor automatically turn on. Therefore, potentiometers require adjustments in accordance with the location and the ambient light level.

Turn the potentiometer on the sensor to "+", regardless of the ambient light level. The load will be on as long as there are signals from occupancy sensor.

Avoid mounting the sensor close to lighting fixtures.

Adjust during daylight hours when ambient light in the area is at desired level. Open the Front Cover and locate the Light Level.

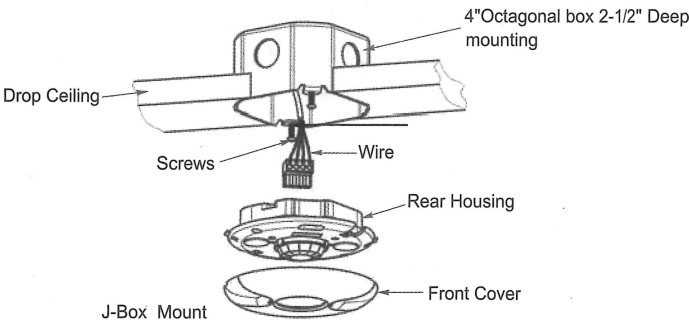
See Sensor Adjustment.



MOUNTING THE SENSOR

Using an Octagonal J-Box

1. Pull the low voltage wires from the power pack into the J-Box through the conduit knockout.
2. Connect the low voltage wires to the appropriate terminals on the sensor.
3. Loosen the appliance mounting screws attached to the J-Box.
4. Align the sensor in the J-Box so that the mounting screws on the box match the key holes on the sensor's rear housing.
5. Push the sensor up into the J-Box and twist it so that the mounting screws are seated in the keyhole slots.
6. Tighten the two screws to secure the sensor to the J-Box.
7. Snap the front cover onto the sensor.



SENSOR ADJUSTMENT

