# **CL-1306** Operation and Specification

#### PIR Occupancy Sensor

CL-1306 is a dual-element infrared sensor. Mounted at a height of 2.4m, this sensor detects people moving within 6m diameter of a full circular coverage area.

CL-1306 can be surface mounted or flush mounted for an attractive, unobstructive appearance. The sensor is fitted with a high-capacity relay that is capable of driving a wide range of load types, including lighting or HVAC devices.

#### <u>Operation</u>

# Initialization:

The sensor becomes operational 30 seconds after power is supplied.

#### **Detection and Activation:**

When a person enters a room, the sensor detects major body motion and turns the light on. The light is kept on even as smaller body movement is detected. The sensor's **Detection Sequence Logic** (DSL) minimizes false triggering by adjusting detection sensitivity based upon sequence of occupancy events. The **Sunset Sensor** provides additional control such that lighting is not activated when there is sufficient brightness in the area.

### De-Activation (Normal Occupancy Mode):

When motion is no longer detected, the sensor turns the light off after a set time delay (Delayed-Off Time).

#### Walk-thru Mode:

The walk-through feature is useful in areas that are momentarily occupied, e.g. hallway. If the sensor detects no movement for more than 10 seconds light was turned off, it will apply a Delayed-Off Time of 2.5 minutes. If the sensor detects movement less than 10 seconds after light was turned off, it will next turn the light off based upon the set time delay.

#### Installation

**Caution:** This product must be installed by a qualified electrician. The casing and internal components of the device should not be removed or modified. Exposure of internal components and wiring may cause electric shock and result in death.

#### Accessories:

- Brackets, screws and wall plugs for surface mount in solid ceiling
- · Spring clips for flush mount in drop ceiling
- Infrared zone mask

#### Location:

- Determine the number of sensors required to cover the floor area
- Install the sensor near work area where walk-path cuts across radial lines, not towards the sensor
- · Do not install the sensor near ventilation outlet

#### Procedure:

- · Prepare sensor mount. See illustration in the next page
- Connect the sensor as shown in the wiring diagram. Make sure power supply is turned off
- · Make sure there are no wiring exposed before mounting the sensor
- Mount the sensor and turn on the power supply
- Open the cover, review settings and change if necessary. See Settings section
- Initiate test mode, replace the cover and conduct walk-test

#### Walk-Test:

- Toggle dip switch B3 (Off-On-Off) to enter test mode. If B3 is already in the On position, moving it to the Off position will also activate test mode
- Amber LED will flash once every second when the sensor is in test mode
- During this time, the sensor will turn the light off after 5 seconds if there are no movement
- · Test movement at entry point, walk path and occupancy area
- · Sensor will exit test mode after 15 minutes

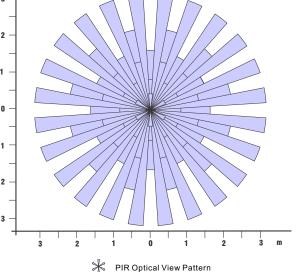
## LED Indicator:

- LED indicator can be enabled or disabled by dip switch B2
- Recommended for troubleshooting
- · Red LED indicates motion detected by infrared sensor

# SUREN

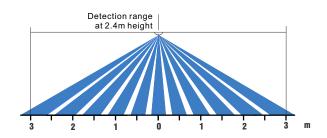


**Detection Area:** 



Top view

Side view



#### **Specification**

Power Supply: 85 - 277 V AC

Power Consumption: 1.87 W

**Power Output:** 85 - 277 V AC, 5 A

PIR Sensor: Pyroelectric, 2-element

Housing Material: High-impact ABS Dimension: 110mm Diameter x 56 mm Height

**Operating Temperature Range:** -40° to 55° C

**RF Immunity:** 20 V/m 10-1000 Mhz; 10 V/m 1-2 GHz

Approvals: ζξ 🔗

