

### Features

- Location . . . . . Indoor
- Function . . . . . Occupancy Sensor Only
- Type . . . . . Ceiling
- Coverage . . . . . 360°
- Coverage Area . . . . 450 Sq.Ft
- Ceiling Height . . . . 8 ft
- Time Delay . . . . . 30 sec – 30 min
- Lux Level . . . . . 20 – 2000 Lux
- Sensitivity . . . . . Max – Min
- Connection. . . . .Wired
- Drive . . . . . Relay
- Dimming . . . . . No

### Description

The INCHCW-WR1 / INFHCW-WR1 is a 360° motion activated Occupancy sensor. The design is based on Passive infrared motion sensors technology and when implemented will significantly reduce the energy consumption for the end user. The sensor operates by detecting the movement of the infrared heat emitted from the body of an occupant in a given area of coverage or field of view. When it detects the presence of people, it will automatically turns on the light in the given area so the occupants will have adequate light to perform their tasks. The lights will be automatically turned OFF when the presence of occupants are no longer detected. By automatically turning on and turning OFF lights the user will be able to save significant amount of energy (up to 60% depends on the usage pattern). This product is suitable for Indoor use only. This product is ideal for use in conference rooms, Cabins, Large halls, indoor alleyways or aisles and cafeteria.

### Operation

The Occupancy sensor works by detecting the movement of infrared radiation emitted by humans. Whenever an occupant crosses the field of view of the Fresnel lens mounted in front of the IR sensor, the IR sensor detects a change in the energy received and

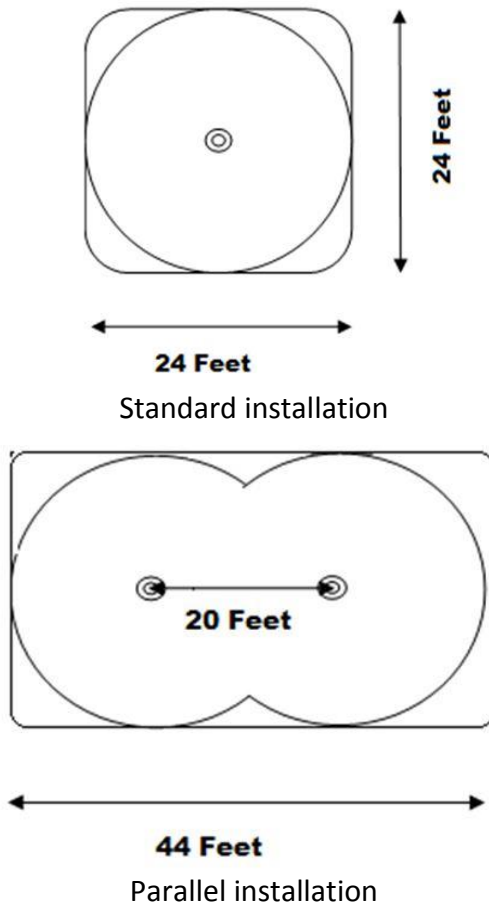
assumes the area is occupied and turns on the lights automatically. As long as the sensor detects



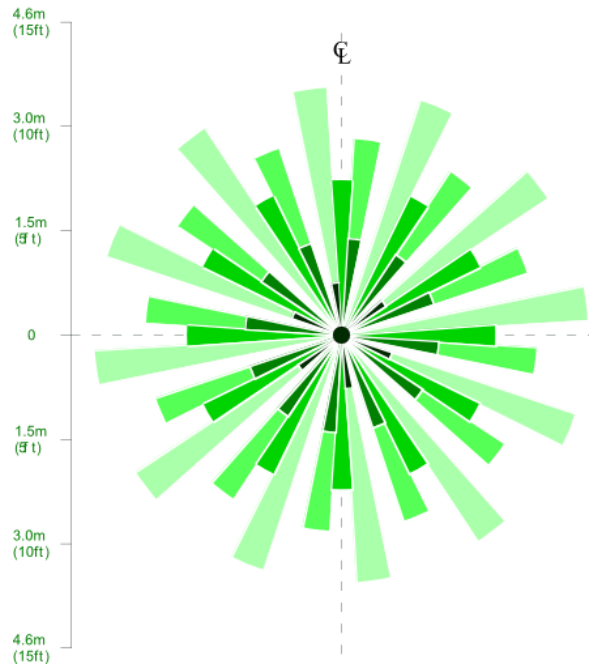
movement, it will maintain the lights in the ON position. When the movement is no longer detected, the sensor turns OFF the light after a preset delay.

### Coverage Area

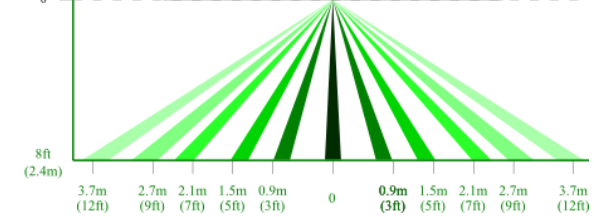
The INCHCW-WR1 / INFHCW-WR1 has a circular sensing coverage area with a 24 feet diameter (450 Sq feet) and a sensing angle of 360°, when installed at a height of 8 feet. Sensitivity can be adjusted to detect minor movements over a distance of 12 feet from the sensor .These sensors can be used individually or can be ganged together to increase the coverage area.



**TOP VIEW:**



**SIDE VIEW:**



**Electrical specifications**

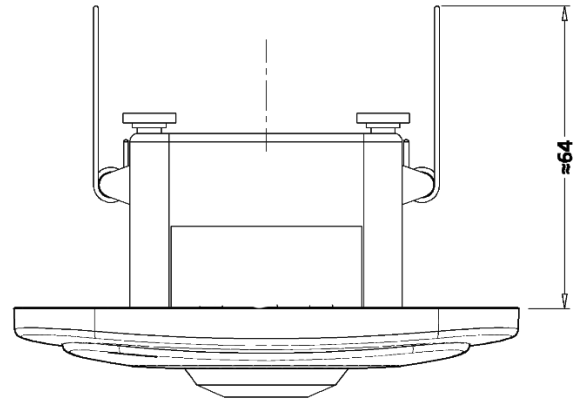
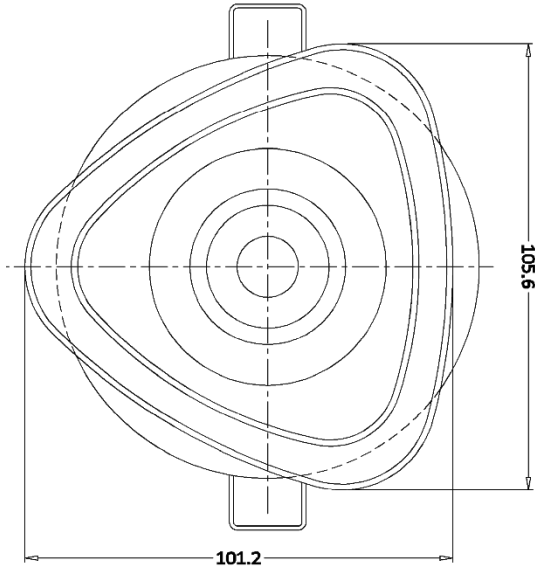
- Supply voltage . . . . . 85 – 265 VAC
- Frequency . . . . . 50/60 Hz
- Resistive Load @110 V . . . . . 900 W
- Resistive Load @220 V . . . . . 1800 W
- Inductive Load @110 V . . . . . 400 W
- Inductive Load @220 V . . . . . 800 W
- Min load . . . . . No load

**Environmental Specifications**

- Storage Temperature Range . . . . . 0°C to 50°C
- Relative Humidity . . . . . 20% to 90%  
(non-condensing)

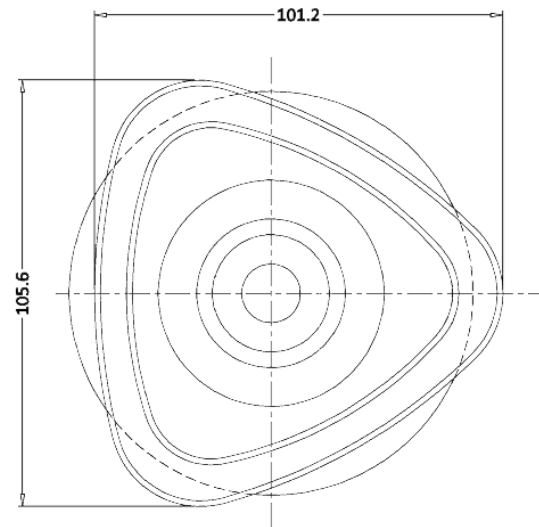
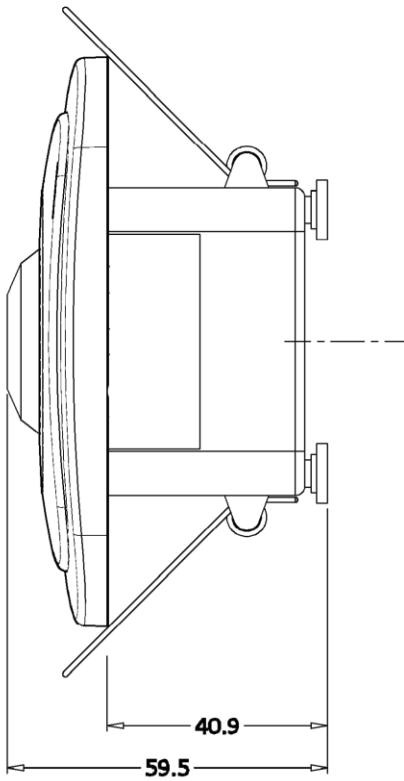
# Mechanical Drawing

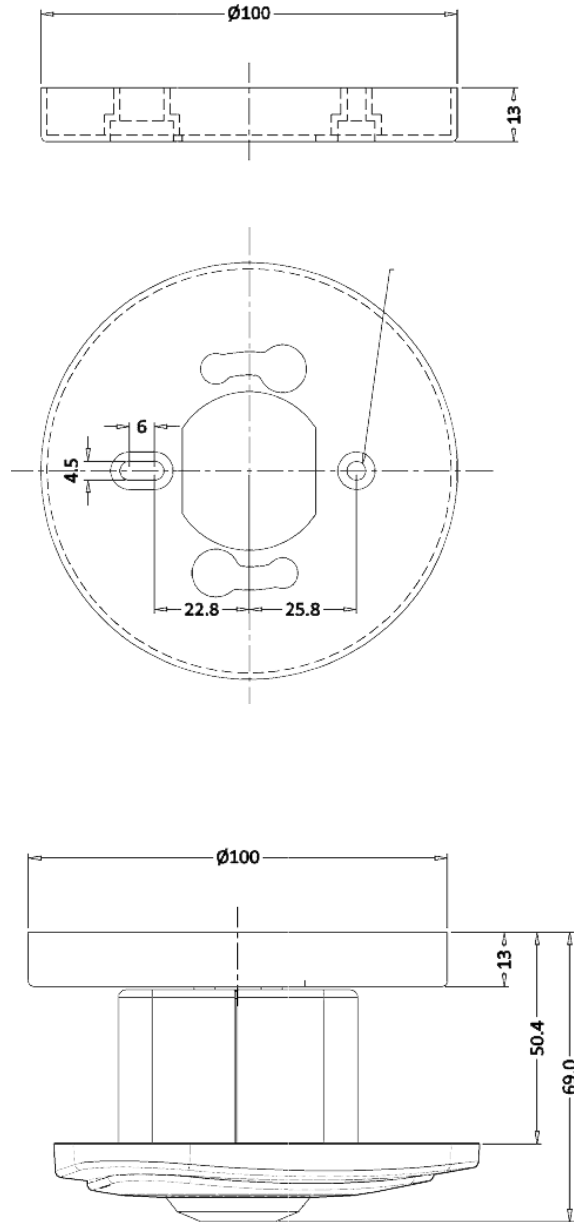
## Type 1



SPRING POSITION IN LOADING TIME

## Type 2





## Supporting Documents

Review the following documents before installation. It will help you understand the sensor and fully exploit its capabilities

- 1) Ceiling Sensor Installation
- 2) Load specification- Relay Switching-Line
- 3) Manual Set up
- 4) Function definition and description
- 5) Troubleshooting
- 6) Daylight Harvesting

## Wiring Diagram

