

## PIR & Ultrasonic Occupancy Sensor



*The Key to Lighting  
Comfort and Energy Savings*

### Controls

- Delayed-Off timer (30 sec – 30 min)
- Ambient light threshold (20 – 320 Lux)
- Infra red and ultrasonic range
- Single/dual-technology (PIR/ultrasonic/both)
- Sunset sensor override
- Normal occupancy / walk-thru mode
- Test mode. Automatic reset to normal operation after 15 minutes
- LED indicators

### Accessories

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

CDL-1608 embodies the technology of infra red and ultrasonic motion detection into one easy-to-install occupancy sensor.

Mounted at a height of 2.4m, this sensor detects people moving within 8m diameter of a full circular coverage area.

CDL-1608 can be surface mounted or flush mounted for an attractive, un-obstructive 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.

### Infra Red Motion Detection

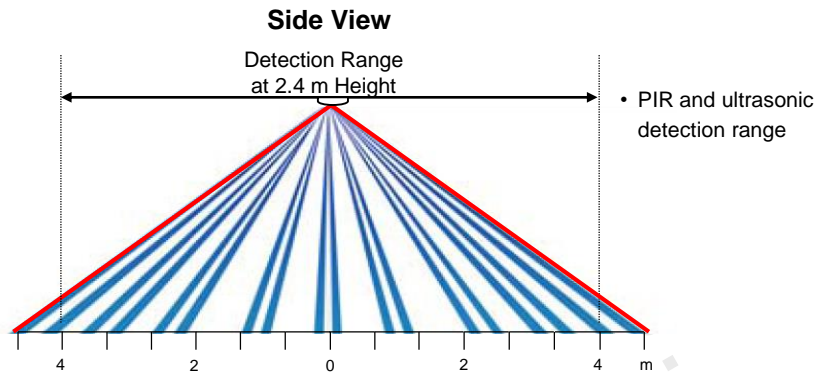
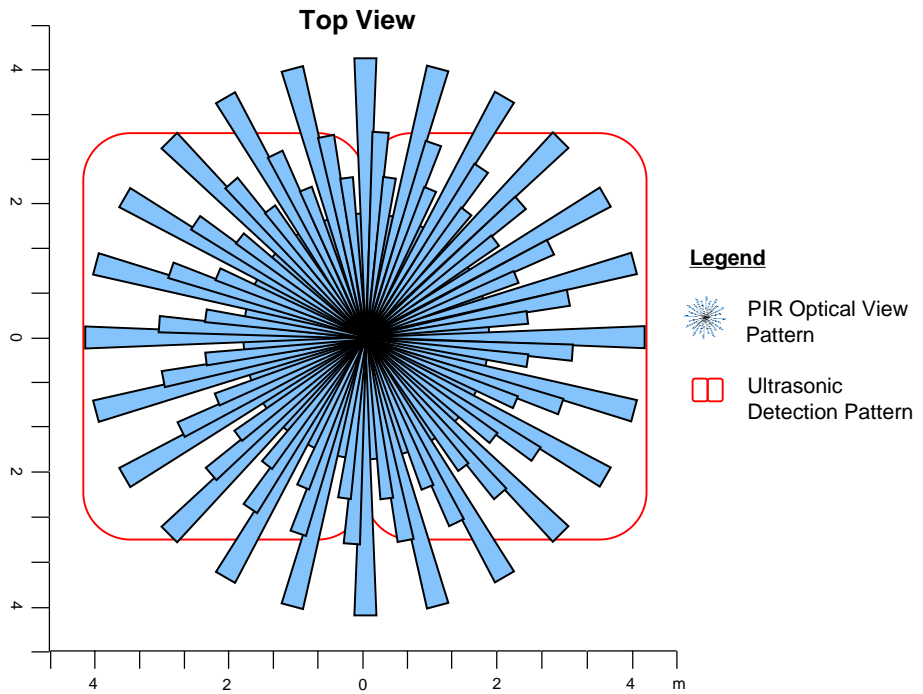
- 360 degree coverage
- Detection range 8m diameter
- Dual-element pyros
- 216 optical view patterns. The detection sensitivity depends on the number of optical view patterns over the detection area

### Ultrasonic Motion Detection

- Dual transceivers
- Detection area 45m<sup>2</sup>
- Does not require line of sight
- Sensitive to air-flow around ventilation outlet and inanimate moving object

### Smart Features

- **Sunset sensor** (photocell) that enables lighting only when ambient light is low
- **Detection Sequence Logic (DSL)** that uses intelligent processing to turn light on when major motion is detected and to keep the light on with relatively smaller motion
- Automatically adapts to different occupancy patterns including normal occupancy and walk-thru modes
- In normal occupancy mode, light is turned off after some delay after the last person leaves the area
- In walk-thru mode, light is turned off shortly after person leaves the area



## Specifications

Supply Voltage	85 – 277 V AC	Power Consumption	3.08 W	
Output Voltage	85 – 277 V AC	Output Current	5 A	
PIR Detection Range	8 m diameter mounted at 2.4 m height			
Ultrasonic Detection Range	45 m <sup>2</sup>			
Operating Temperature Range	-40° C to 55° C			
Recommended Mounting Height	2.3 m to 4 m			
Housing	High Impact ABS			
Dimension	Overall Height	56 mm	Diameter	110 mm
Approvals				
Optical View Pattern	Long Range	Mid Range	Short Range	Look Down
	48	96	64	8

All specifications are subject to change without notice.