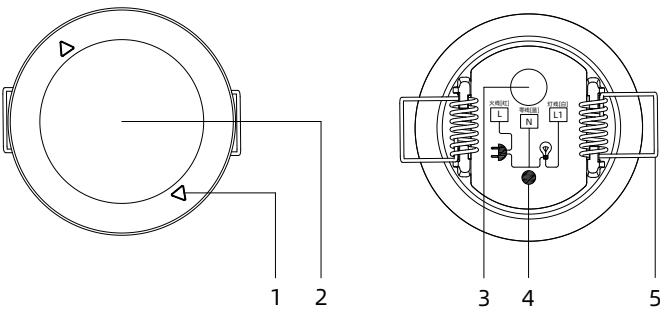


R1-PIR-S1

The CTL-SEN-R1/1112 is a professional Passive Infrared (PIR) motion sensor powered by advanced pyroelectric sensing technology. Featuring a precision spherical lens design , it provides high-density coverage to accurately capture human movement within a 360° field of view. With a comprehensive detection diameter of up to 6.0 meters and an integrated high-sensitivity illuminance sensor (0 to 32,000 Lux) , it is engineered to deliver intelligent, energy-efficient control for diverse smart building applications.



Interface



1. Orientation Marker
2. Fresnel Lens
3. Power Input (AC 100 to 240 V)
4. Test Button
5. Spring Clip

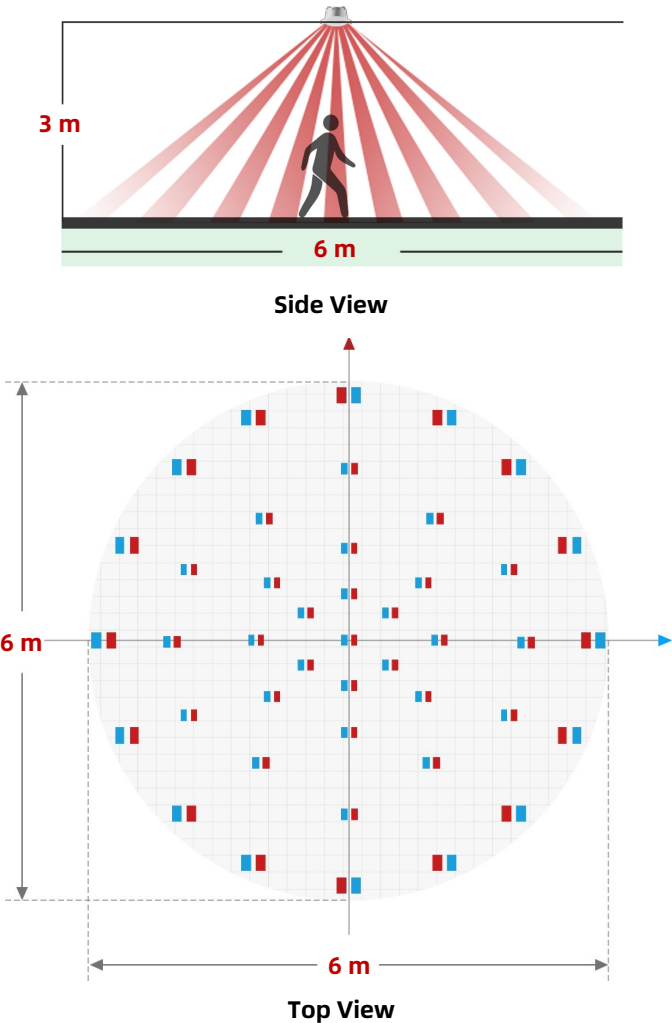
Features

- Equipped with PIR motion detection.
- Quad-element PIR technology enhances radial movement detection and minimizes blind spots.
- Integrated high-precision sensor for accurate indoor illuminance monitoring.
- Features 1 relay output
- Adjustable lighting threshold.
- Supports parameter configuration and status readout via IR remote control.
- Indicator LED brightness automatically adjusts to ambient light levels.

Specifications

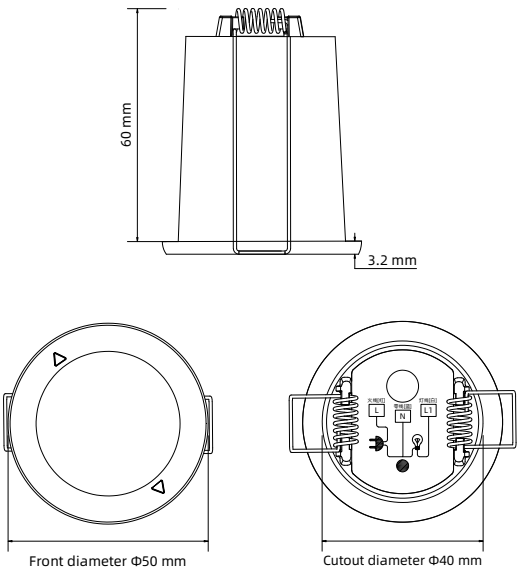
Output Type	Mains Output
Input Voltage	AC 100 to 240 V
Power Consumption	0.5 W (Max)
Relay Output	Normally Open Mode Normally Closed Mode
Relay Load	AC 100 to 240 V, ≤ 2 A
Indicator Light	LED
Detection Mode	Pyroelectric Infrared Receiver
Installation Method	Recessed Ceiling Mount
Mounting Height	2.0 to 4.0 m
Detection Angle	360°
Detection Range	When the installation height is 3.0 m, the motion detection diameter is ≤ 6.0 m
Illuminance Monitoring	0 to 32,000 Lux (Accuracy ±4%)
Delay Time	1 to 3,600 seconds
Product Size	Φ50 mm × 60 mm
Cutout Size	Φ42 mm
Product Weight	57 g
Cable Assembly	UL1015 18AWG
Operating Environment	Indoor -20 to 45°C Humidity < 95% RH (Non-condensing)
Storage Temperature	-40 to 85°C
Protection Level	IP20
Housing Material	PC

Detection Range



Dimensions

Recessed mount, product outer diameter 50 mm, product depth 60 mm, cutout diameter 42 mm.



Installation Notes

- Interference Avoidance:** Avoid installing near moving objects (e.g., pets, swinging curtains) or areas with rapid temperature changes (e.g., AC vents, heat sources) to ensure accuracy and prevent false alarms.
- Mounting & Handling:** Ensure the installation surface is firm and stable to avoid vibration. Handle the device with care during unpacking and installation to prevent physical damage to the shell or circuit board.
- Wiring Safety:** Disconnect power before wiring. Use certified cables and strictly follow the diagram to ensure proper circuit protection.
- Packaging Disposal:** Dispose of packaging materials safely and immediately according to local regulations.
- Disclaimer:** Product specifications are subject to change without prior notice. Please strictly follow these guidelines; the manufacturer is not liable for performance issues or interference caused by improper installation.

Available Accessories



Remote Control (60.99.00C1)

Ordering Information

P/N	Short Name	Model	Remarks
60.10.1112	R1-PIR-S1	CTL-SEN-R1/1112	Main Unit
60.99.00C1	RC1	RC1	Accessory

Wiring Diagram

