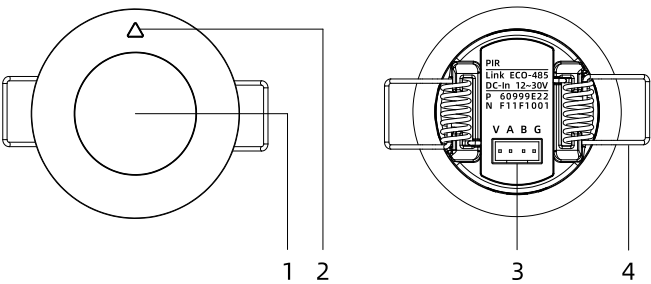


ECO-PIR-485

The ECO-PIR-485 is a professional-grade Passive Infrared (PIR) motion sensor specifically engineered for energy-efficient automation within smart hotel environments. Featuring enhanced quad-element PIR sensing technology, the device ensures high-precision capture of human motion signals. Serving as a critical trigger component of the hotel's "3+1" energy-saving framework, it leverages an industrial RS485 bus for stable, high-reliability wired communication, delivering essential occupancy data to guestroom power management systems. This facilitates streamlined energy control and operational efficiency while ensuring absolute guest privacy.



Interface



1. Fresnel Lens
2. Orientation Marker
3. Wiring Terminal (PH 2.0 mm 4-Pin)
4. Spring Clip

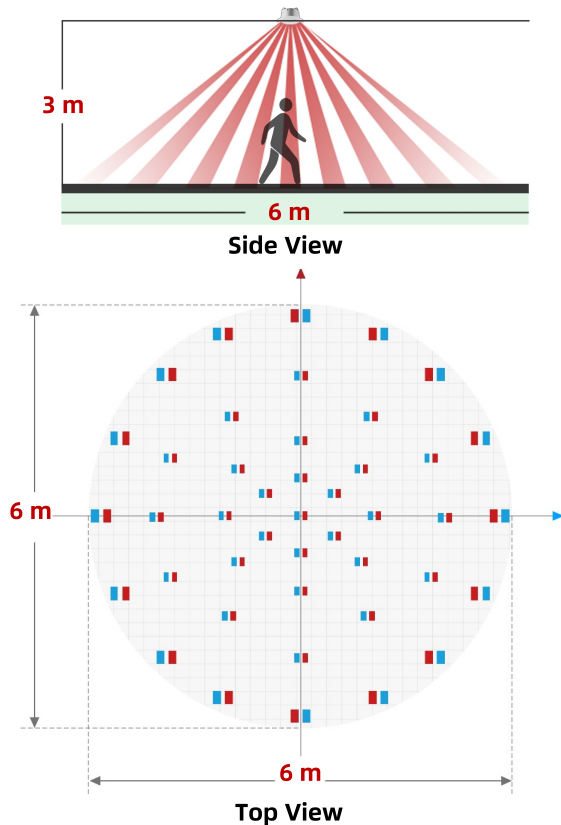
Features

- Equipped with PIR motion detection.
- Quad-element PIR technology enhances radial movement detection and minimizes blind spots.
- Supports parameter configuration and status readout via IR remote control.
- Indicator LED indicator defaults to OFF; configurable to Breathing or Night Light modes.
- Powered by a proprietary module with advanced signal processing algorithms.

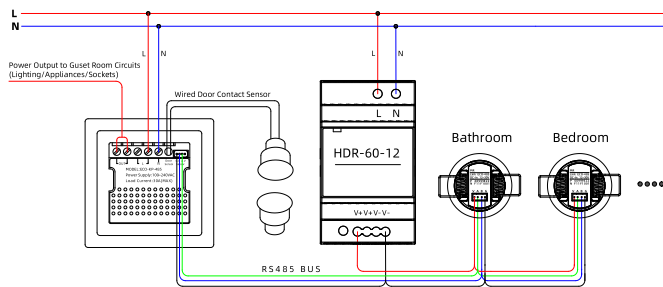
Specifications

Communication Type	RS485
Input Voltage	DC 12 to 30 V
Power Consumption	0.5 W (Max)
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
Delay Time	1 to 3,600 seconds
Product Size	Φ43 mm × 25 mm
Cutout Size	Φ35 mm
Product Weight	14.5 g
Cable Assembly	UL1007 22AWG Cable Length: 150 mm
Operating Temperature	Indoor -20 to 45°C
Operating Humidity	< 95% RH (Non-condensing)
Storage Temperature	-40 to 85°C
Protection Level	IP20
Housing Material	PC

Detection Range

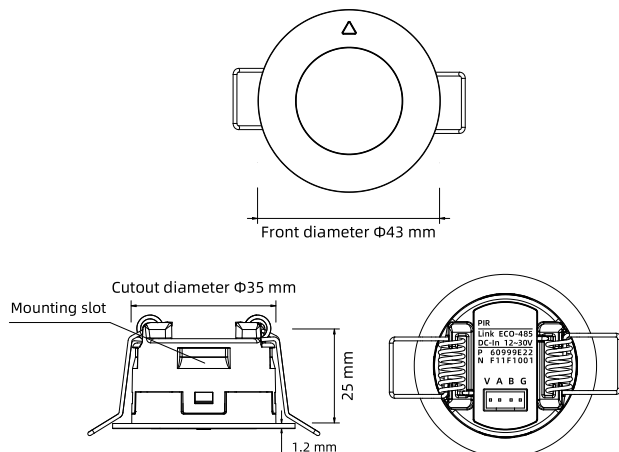


Wiring Diagram



Dimensions

The product features an outer diameter of 43 mm and a depth of 25 mm, requiring a 35 mm cutout. Designed for recessed installation, it is also compatible with optional kits for surface mounting, wall mounting, or external installation via a universal bracket.



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.

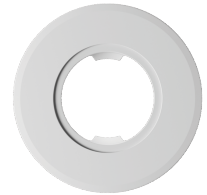
Packaging Disposal: Dispose of packaging materials safely and immediately according to local regulations.

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



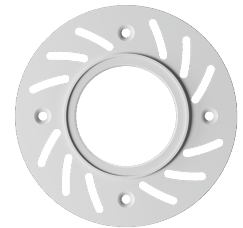
Remote Controller
(60.99.00C1)



Cover Ring
(60.99.0A55)



In-wall Mounting 86 Panel Frame
(60.99.0A86)



Borderless Embedded Parts
(60.99.0A40)



Surface Mounting Socket
(60.99.0A50)



Surface Mounting Universal Bracket
(60.99.A360)

Ordering Information

P/N	Short Name	Model	Remarks
60.99.9E22	ECO-PIR-485	CTL-SEN-Mini/9E22	White (Default)
60.9B.9E22	ECO-PIR-485/B	CTL-SEN-Mini/9E22B	Black
60.99.00C1	RC1	RC1	Accessory
60.99.0A55	Mini-ASSY-55	A55	Accessory
60.99.0A86	Mini-ASSY-86	A86	Accessory
60.99.0A40	Mini-ASSY-BL	A40	Accessory
60.99.0A50	Mini-ASSY-CYL	A50	Accessory
60.99.A360	Mini-ASSY-360	A360	Accessory