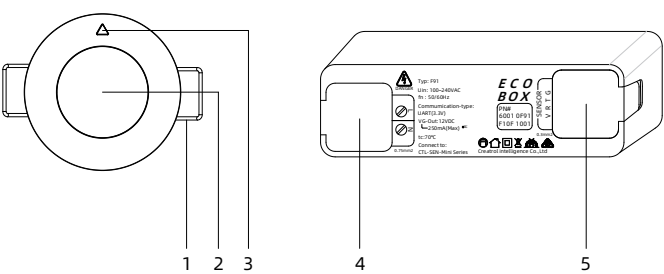


Mini-PIR-WL

The ECO-PIR-WL is a professional-grade Passive Infrared (PIR) motion sensor engineered for energy-efficient automation within smart hotel environments. Utilizing enhanced quad-element PIR sensing technology, the device delivers precise motion detection and signal capture. As a core trigger component of the hotel's "3+1" energy-saving framework, it leverages LoRa technology for robust, long-range wireless communication, providing guestroom power management systems with reliable occupancy data. This facilitates high-efficiency energy control while ensuring total guest privacy.



Interface



1. Spring Clip
2. Fresnel Lens
3. Orientation Marker
4. Power Connection Port (AC 100 to 240 V)
5. Sensor Wiring Terminal (PH 2.0 mm 4-Pin)

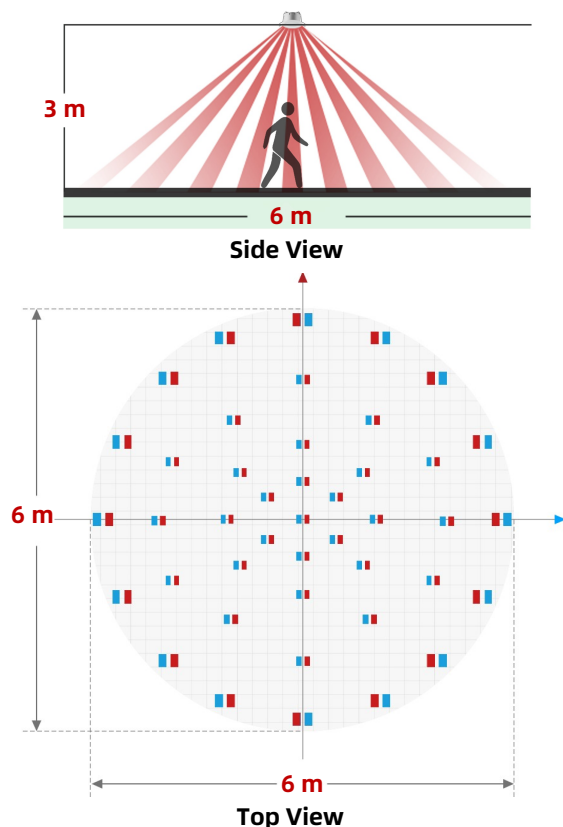
Features

- Equipped with PIR motion detection.
- Quad-element PIR technology enhances radial movement detection and minimizes blind spots.
- Utilizes license-free ISM LoRa bands (470–928MHz) to ensure robust, long-range wireless connectivity and superior wall penetration in dense hotel infrastructures.
- Enables remote monitoring and adjustment of sensor parameters (sensitivity, range, delays) via the gateway interface.
- Supports parameter configuration and status readout via IR remote control.

Specifications

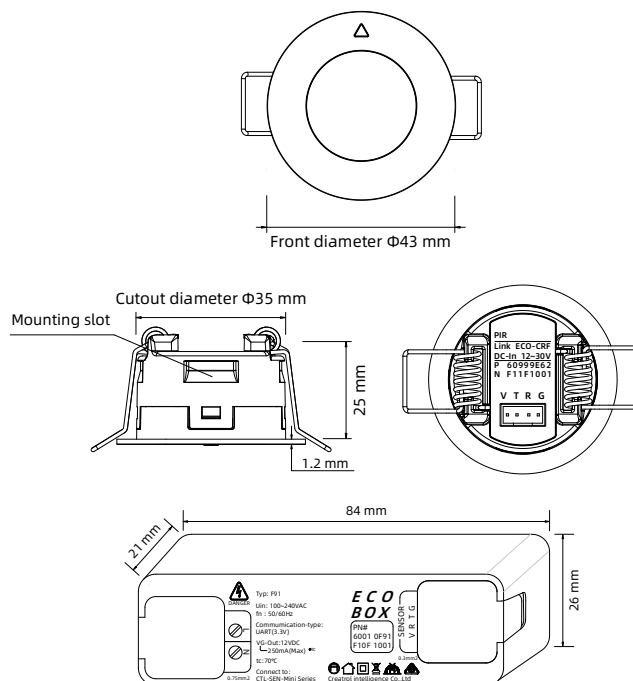
Communication Type	Wireless (LoRa Technology)
Cloud Ecosystem	Tuya-WiFi (Supports remote parameter configuration via Gateway)
BOX Input Voltage	AC 100 to 240 V
BOX Output Voltage	DC 12 V (< 500 mA)
Sensor Input Voltage	DC 12 V
Power Consumption	0.5 W (Max)
Indicator Light	LED
Detection Mode	Pyroelectric Infrared Receiver
Installation Method	Recessed Ceiling Mount
Mounting Height	2.0 to 4.0 m
Detection Angle	360°
Detection Coverage	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
BOX Size	84 mm × 26 mm × 21 mm
BOX Weight	30 g
Cable Assembly	UL2468 22AWG Cable Length: 200 mm
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

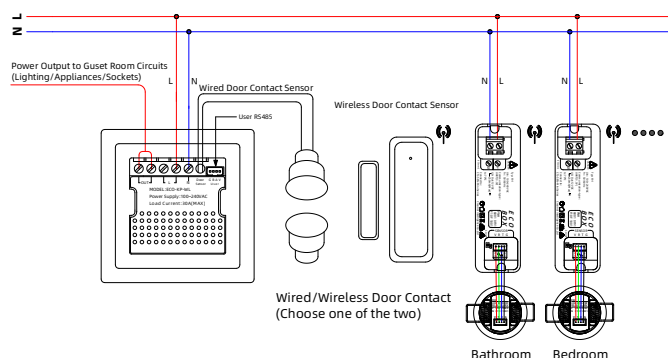


Dimensions

Measuring 43 mm wide and 25 mm deep, this recessed unit fits a 35 mm cutout and requires a minimum ceiling depth of 10 cm.



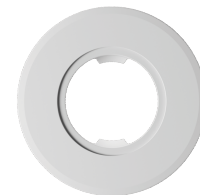
Wiring Diagram



Available Accessories



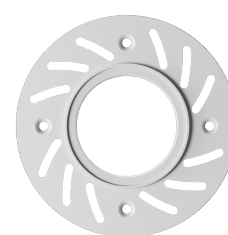
Remote Controller
(60.99.00C1)



Mini Accessory Cover Ring
(60.99.0A55)



Mini Accessory In-wall Mounting 86 Panel Frame (60.99.0A86)



Mini Accessory Borderless
Embedded Parts (60.99.0A40)

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.

Device Spacing: Maintain at least 4m between sensors.

Mounting: Install on a stable, vibration-free surface.

Ensure no moving objects are behind the wall (signals penetrate non-metals).

Wiring Safety: Disconnect power before wiring. Use certified cables and strictly follow the diagram to ensure proper circuit protection.

Disclaimer: Follow wiring diagrams strictly. Manufacturer is not liable for improper installation. Specifications subject to change.

Ordering Information

P/N	Short Name	Model	Remarks
60.99.9E62.F91	ECO-PIR-WL	CTL-SEN-Mini/9E62.F91	White (Default)
60.9B.9E62.F91	ECO-PIR-WL/B	CTL-SEN-Mini/9E62B.F91	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