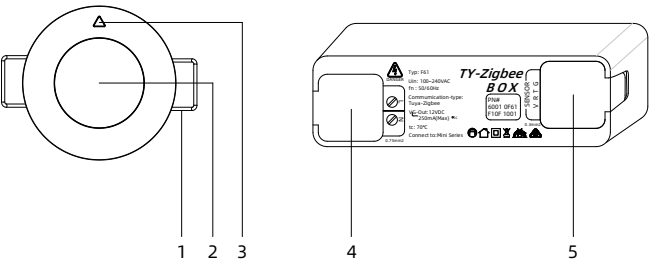


Mini-PIR-TYZ/AC/20

The CTL-SEN-Mini/1216.F61 Series is a compact, high-sensitivity motion sensor powered by precise Passive Infrared (PIR) technology. Designed for discreet, premium applications, it features a miniature form factor (Φ35 mm cutout) while offering a 360° detection diameter of up to 6.0 m. It integrates a high-precision lux sensor (0–32,000 Lux) for energy-efficient lighting automation.



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)

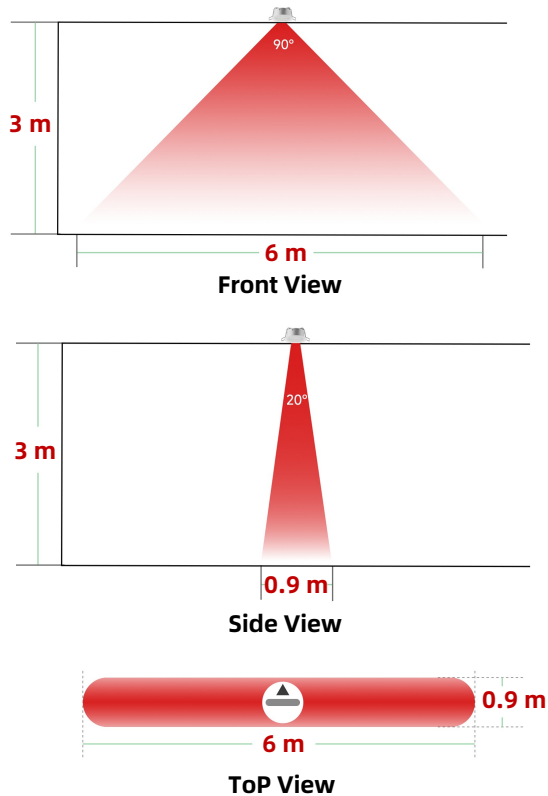
Features

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

Specifications

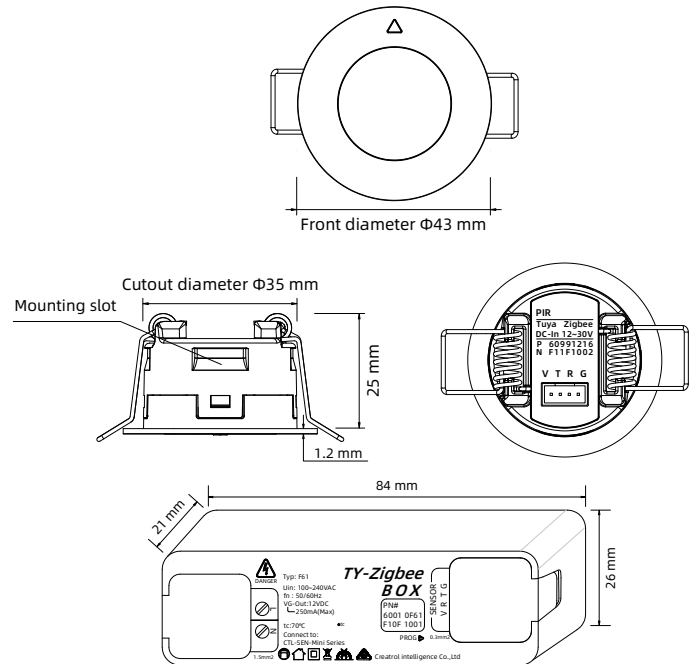
Communication Type	TY-ZigBee
BOX Input Voltage	AC 100 to 240 V
BOX Output Voltage	DC 12 V (0.25 A MAX)
Sensor Input Voltage	DC 12 V
Power Consumption	0.5 W (Max)
Indicator Light	LED
Detection Mode	Pyroelectric Infrared Receiver
Installation Method	Recessed Ceiling Mount
Mounting Height	2.0 to 4.0 m
Detection Angle	20°
Detection Coverage	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	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



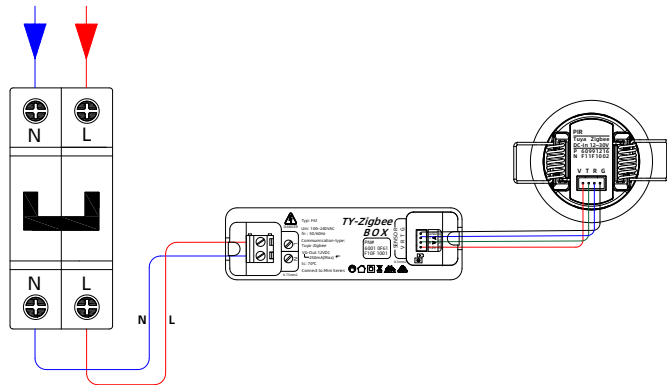
Dimensions

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

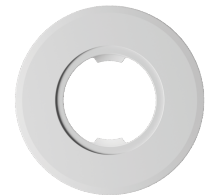
AC 100 to 240 V



Available Accessories



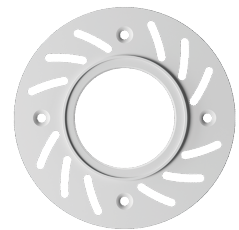
Remote Controller
(60.99.00C1)



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
60.99.1216.F61	Mini-PIR-TYZ/AC	CTL-SEN-Mini/1216.F61	White (Default)
60.9B.1216.F61	Mini-PIR-TYZ/AC/20/B	CTL-SEN-Mini/1216B.F61	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