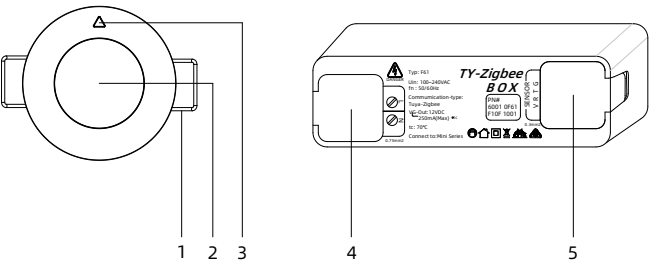


Mini-DTP-TYZ/AC

The CTL-SEN-Mini/3116.F61 is an advanced Dual-Tech Presence Sensor designed for high-precision occupancy detection. The sensor utilizes a Pyroelectric Infrared (PIR) sensor to detect biological movement characteristics, while simultaneously using 24 GHz FMCW radar to detect active motion, micro-motion, and stationary presence. By performing dual-signal cross-verification, the device triggers only when both technologies consistently confirm human activity, thereby minimizing false alarms to the maximum extent.



Interface



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

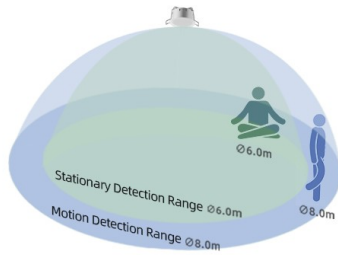
Features

- Dual-technology fusion of PIR (Passive Infrared) and 24GHz FMCW radar minimizes false triggers.
- Accurately identifies motion, micro-motion, and Presence.
- Sensitivity and detection distance can be adjusted independently.
- Integrated high-precision sensor for accurate indoor illuminance monitoring.
- Adjustable lighting threshold.
- Supports parameter configuration and status readout via IR remote control.
- Indicator LED brightness automatically adjusts to ambient light levels.
- Powered by a proprietary module with advanced signal processing algorithms.

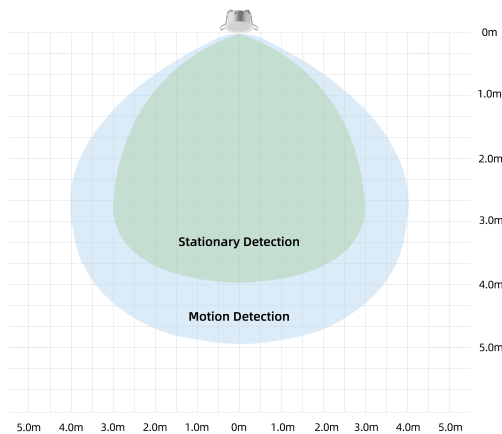
Specifications

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	PIR + 24GHz FMCW Radar
Operating Frequency	24.00 to 24.25 GHz
Transmit Power	≤ 10 dBm
Installation Method	Recessed Ceiling Mount
Mounting Height	2.0 to 4.0 m
Detection Angle	360°
Detection Coverage	Installation at 3.0 m Height: ① Motion & Micro-motion: Detection diameter at least 8.0m ② Stationary Presence: Detection diameter at least 6.0m
Detection Range	1.5 to 8.0 m (sensor to target)
Sensitivity	0 to 100%
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	16.5 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



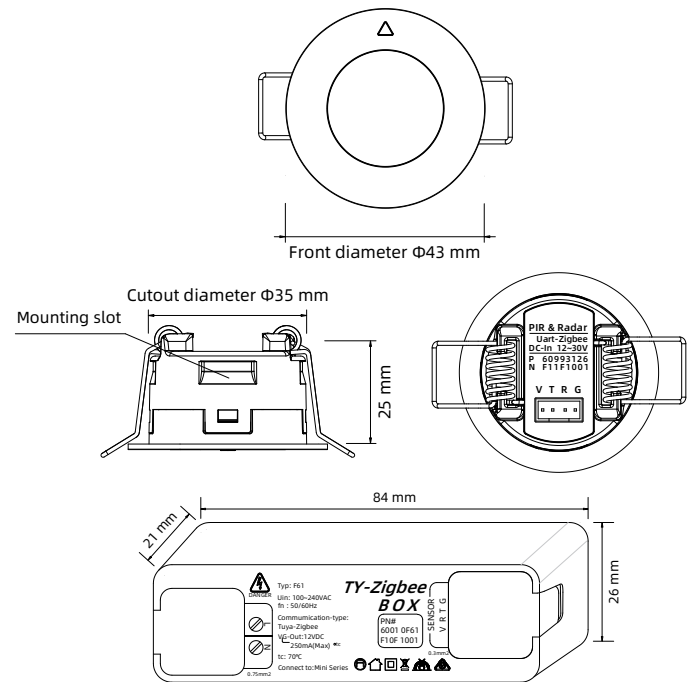
Front View



Side View

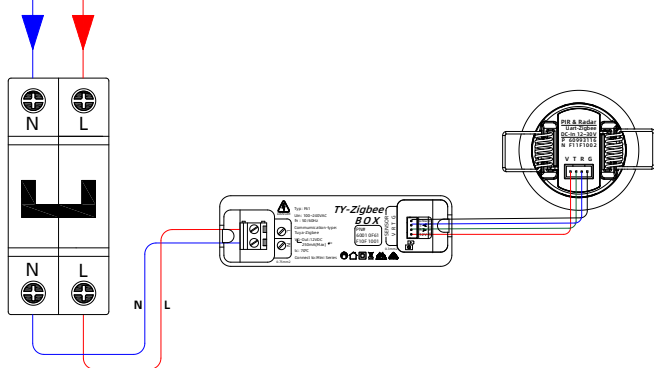
Dimensions

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.

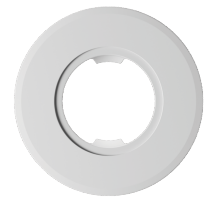
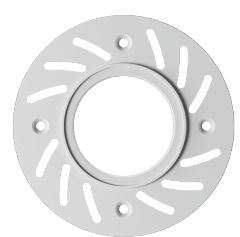


Wiring Diagram

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: Keep away from moving objects (e.g., curtains, plants) and large metal/reflective surfaces.

Device Spacing: Maintain a minimum distance of 4 m between multiple sensors to prevent mutual interference.

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 ensure the circuit includes appropriate short-circuit and overload protection.

Disclaimer: Product specifications are subject to change without prior notice for improvement purposes. Please follow all wiring diagrams strictly. The manufacturer is not liable for issues caused by improper installation.

Ordering Information

P/N	Short Name	Model	Remarks
60.99.3116.F61	Mini-DTP-TYZ/AC	CTL-SEN-Mini/3116.F61	White (Default)
60.9B.3116.F61	Mini-DTP-TYZ/AC/B	CTL-SEN-Mini/3116B.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