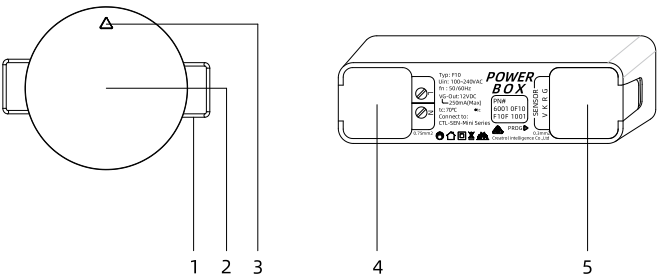


Mini-HCS-TYZ/AC

The CTL-SEN-Mini/5116.F10 is a compact, high-precision motion sensor powered by advanced 5.8G High-Bay radar technology. Designed for discreet, premium applications, it features a miniature form factor (Φ35 mm cutout) while supporting mounting heights of up to 12.0 m with a robust detection diameter of 15.0 m. It integrates a high-precision lux sensor (0–32,000 Lux) for advanced lighting automation.



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)

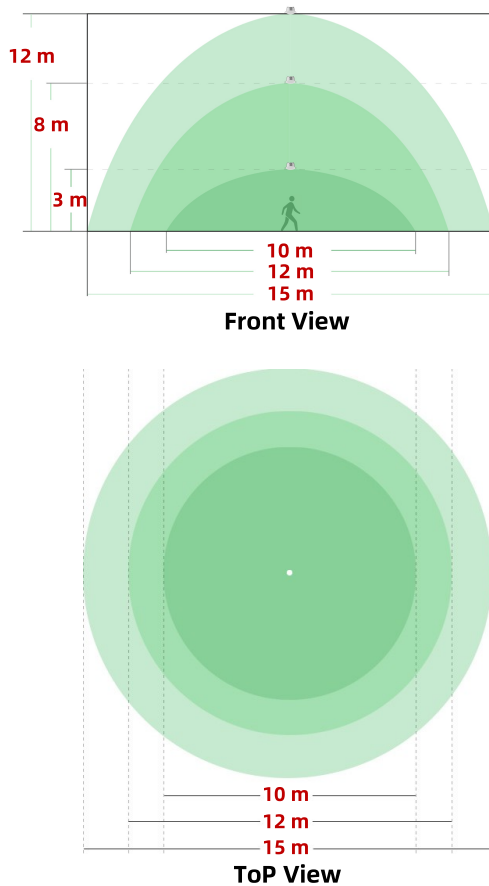
Features

- Capable of installation at heights up to 12m, providing reliable coverage for warehouses, lobbies, and gyms.
- Accurately identifies major motion and minor motion.
- Sensitivity and detection range 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

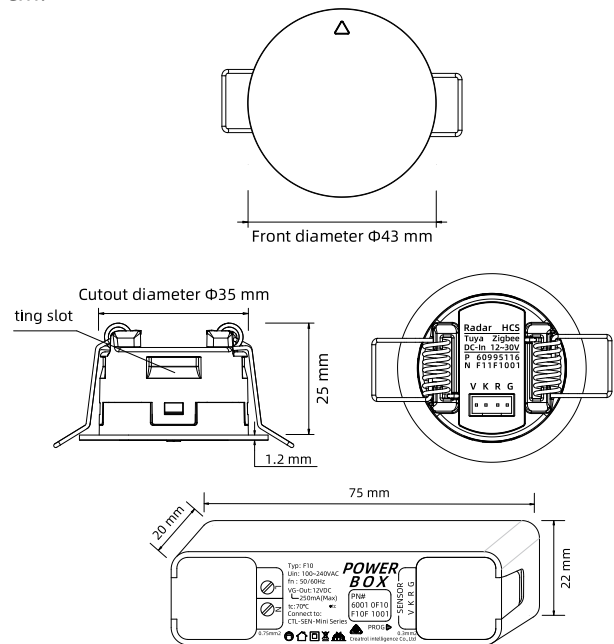
Communication Type	TY-ZigBee
BOX Input Voltage	AC 100 to 240 V
BOX Output Voltage	DC 12 V (< 500 mA)
Sensor Input Voltage	DC 12 V
Power Consumption	0.5 W (Max)
Indicator Light	LED
Detection Mode	5.8G High-Bay Radar
Operating Frequency	5.725 to 5.875 GHz
Transmit Power	≤ 10 dBm
Installation Method	Recessed Ceiling Mount
Mounting Height	2.0 to 12.0 m
Detection Angle	360°
Detection Coverage	Achieves a micro-motion detection diameter of at least 15.0 m at 12.0 m height
Detection Range	1.5 to 25.0 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	75 mm × 20 mm × 22 mm
BOX Weight	29 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



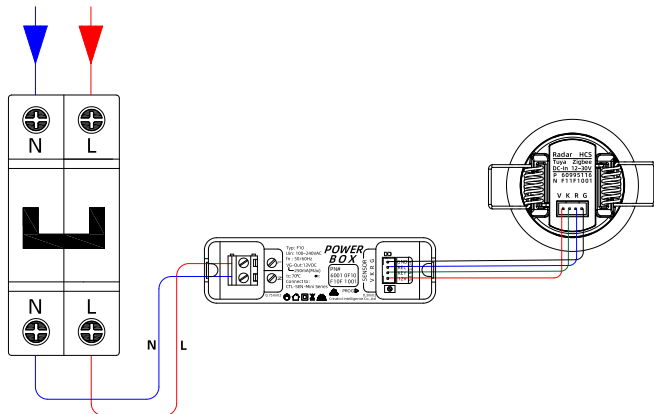
Dimensions

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 requires a minimum ceiling depth of 10 cm.



Wiring Diagram

AC 100 to 240 V



Installation Notes

Environmental Requirements: Avoid moving objects, direct light, and reflections. Dark materials reduce sensitivity. Ensure the lens remains free of heavy soiling or scratches, as this may compromise detection accuracy.

Unpacking: Unpack carefully and inspect contents immediately. Dispose of packaging per local regulations.

Electrical Safety: Disconnect power. Use certified cables with circuit protection. Do not touch internal components.

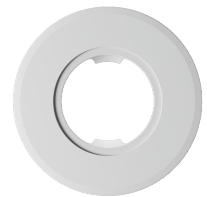
Wiring Safety: Mount at least 30 cm above the floor with 1 meter clearance from walls or obstacles. Ensure an unobstructed view of the detection zone.

Disclaimer: Specifications subject to change without notice. No liability assumed for improper installation.

Available Accessories



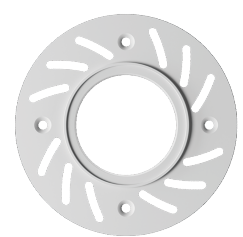
Remote Controller
(60.99.00C1)



Cover Ring
(60.99.0A55)



In-wall Mounting 86 Panel Frame
(60.99.0A86)



Borderless Embedded Parts
(60.99.0A40)

Ordering Information

P/N	Short Name	Model	Remarks
60.99.5116.F10	Mini-HCS-TYZ/AC	CTL-SEN-Mini/5116.F10	White (Default)
60.9B.5116.F10	Mini-HCS-TYZ/AC/B	CTL-SEN-Mini/5116B.F10	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