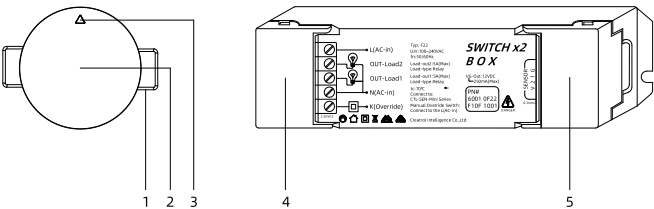


Mini-HCS-S2

The CTL-SEN-Mini/5111.F22 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)

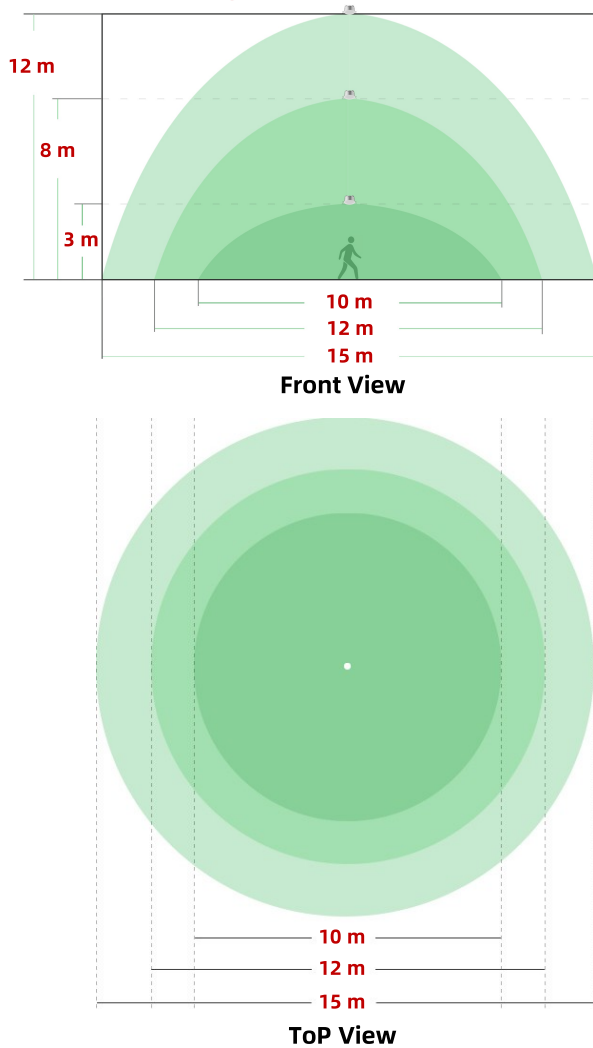
Features

- 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.
- Features 2 relay output
- 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.

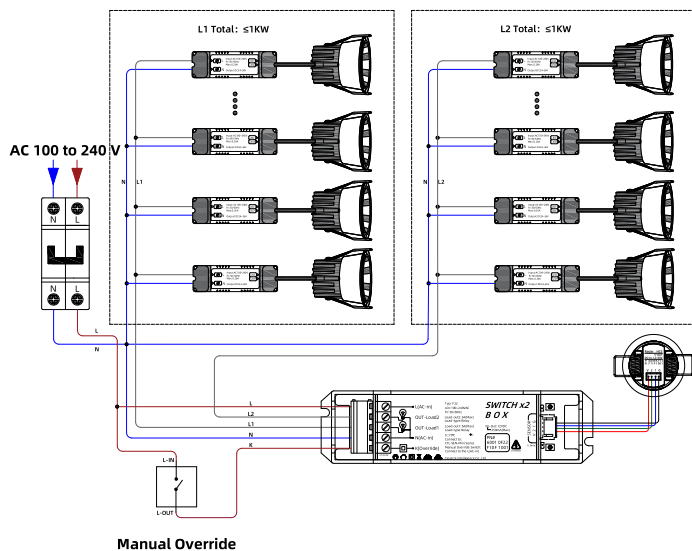
Specifications

Output Type	Mains Output
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)
Relay Output	Normally Open Mode Normally Closed Mode
Relay Load	AC 100 to 240 V, ≤ 5 A
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	121 mm × 35 mm × 26 mm
BOX Weight	88 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



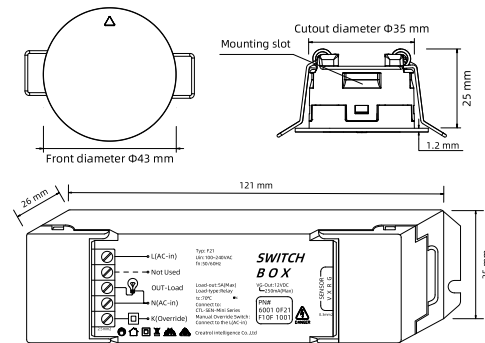
Wiring Diagram



Manual Override: Connects to an external switch to force lights ON, bypassing sensor detection. Ideal for maintenance or constant illumination.

Dimensions

Measuring 43 mm wide and 25 mm deep, this recessed unit fits a 35 mm cutout and requires a minimum ceiling depth of 13 cm.



Installation Notes

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

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).

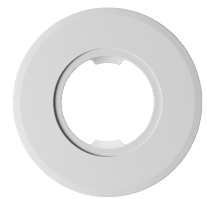
Wiring Safety: Turn off power before wiring. Use certified cables and proper circuit protection.

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

Available Accessories



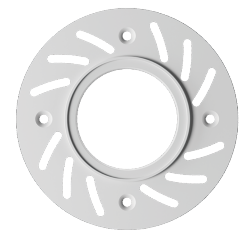
Remote Controller
(60.99.00C1)



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
60.99.5111.F22	Mini-HCS-S2	CTL-SEN-Mini/5111.F22	White (Default)
60.9B.5111.F22	Mini-HCS-S2/B	CTL-SEN-Mini/5111B.F22	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