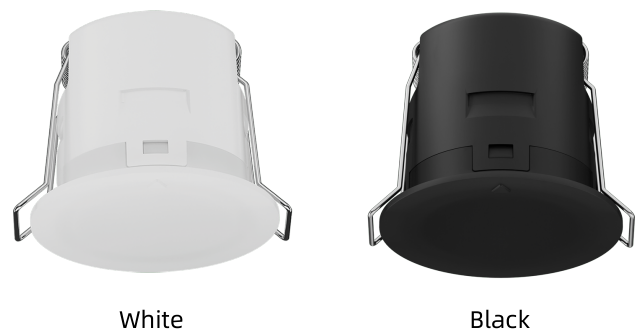
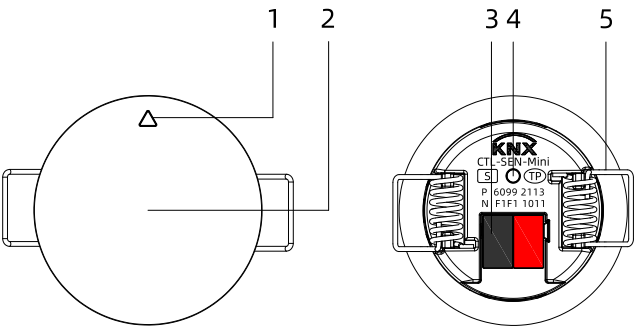


Mini-24G-KNX

The CTL-SEN-Mini/2113 is a compact, high-precision presence sensor powered by advanced 24GHz FMCW mmWave technology. Designed for discreet, premium applications, it features a miniature form factor (Φ35 mm cutout) while offering a detection diameter of up to 8.0 m. It integrates a high-precision lux sensor (0-32,000 Lux) for advanced lighting automation.



Interface



1. Orientation Marker
2. Radar Sensing Surface
3. KNX Bus Port (DC 21 to 30 V)
4. Programming Button
5. Spring Clip

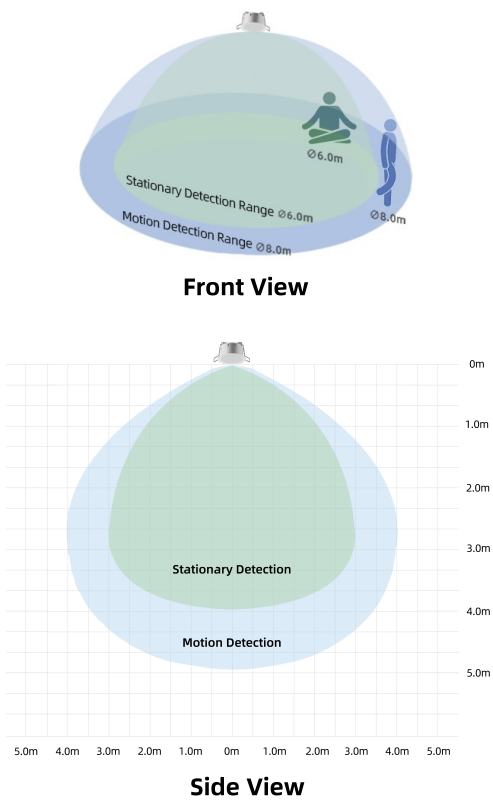
Features

- Features comprehensive detection capabilities, accurately identifying motion and presence.
- Integrated high-precision sensor for accurate indoor illuminance monitoring.
- Supports 4 independent channels for lighting control.
- Supports multiple operating modes, including Fully Automatic, Semi-Automatic, Master/Slave, and Day/Night.
- Supports parameter configuration and status readout via IR remote control.
- Built-in logic functions with support for manual mode and independent event outputs.
- Supports external inputs to dynamically modify parameter characteristics.
- Offers selectable Easy (quick start) and Advanced (multi-channel output) modes.

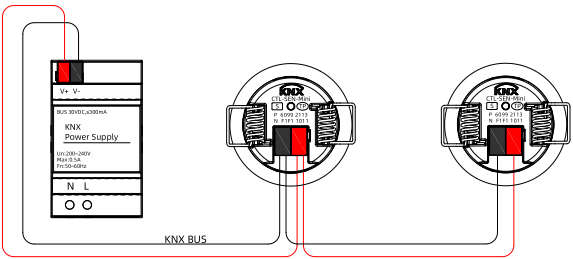
Specifications

Communication Type	KNX TP
Input Voltage	DC 21 to 30 V
Operating Current	≤ 10 mA
Indicator Light	LED
Detection Mode	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 8.0 m ② Stationary Presence: Detection diameter at least 6.0 m
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 × 35 mm
Cutout Size	Φ35 mm
Product Weight	27 g
Bus Terminal	Red / Black
Programming button	Physical Address Assignment
Bus Connection	Φ0.6 to 0.8 mm
Operating Environment	Indoor -20 to 45°C Humidity < 95% RH (Non-condensing)
Storage Temperature	-40 to 85°C
Protection Level	IP20
Housing Material	ABS, PC

Detection Range

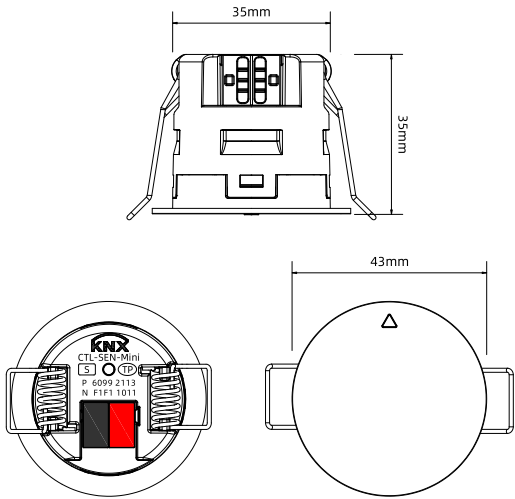


Wiring Diagram



Dimensions

Measuring 43 mm in diameter and 35 mm in depth, this recessed unit fits a 35 mm cutout. Optional kits allow for surface, wall, or universal bracket mounting.



Installation Notes

Interference Avoidance: Avoid installing near constantly moving objects (e.g., curtains, plants) or large reflective surfaces (e.g., metal ducts, mirrors) to minimize false alarms or unintended triggering.

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

Mounting: Ensure the installation surface is vibration-free. Note that radar signals can penetrate non-metallic surfaces; avoid moving objects directly behind the installation wall/ceiling.

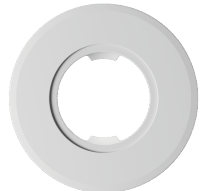
Wiring Safety: Disconnect power before wiring. Use certified cables and ensure the circuit includes appropriate short-circuit and overload protection.

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.

Available Accessories



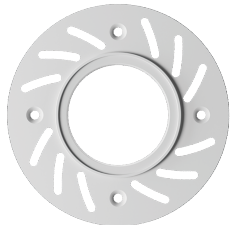
Remote Controller
(60.99.00C1)



Cover Ring
(60.99.0A55)



In-wall Mounting 86 Panel Frame
(60.99.0A86)



Borderless Embedded Parts
(60.99.0A40)



Surface Mounting Socket
(60.99.0A50)



Surface Mounting Universal Bracket
(60.99.A360)

Ordering Information

P/N	Short Name	Model	Remarks
60.99.2113	Mini-24G-KNX	CTL-SEN-Mini/2113	White (Default)
60.9B.2113	Mini-24G-KNX/B	CTL-SEN-Mini/2113B	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
60.99.0A50	Mini-ASSY-CYL	A50	Accessory
60.99.0A36	Mini-ASSY-360	A36	Accessory