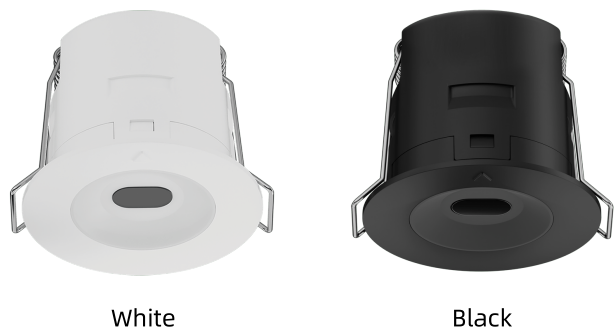
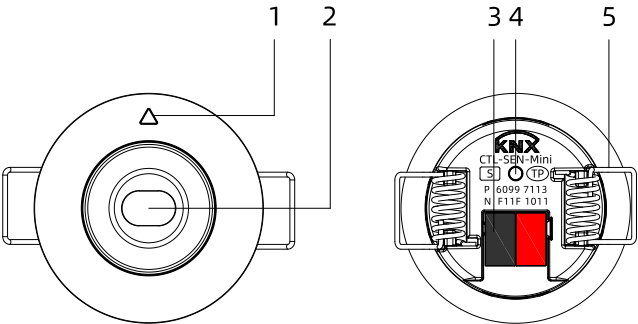


Mini-ToF-KNX

The CTL-SEN-Mini/7113 is an ultra-compact, high-precision occupancy sensor leveraging advanced Time-of-Flight (ToF) ranging technology. Unlike traditional motion sensors, it measures the precise distance to a target with millimeter-level accuracy, enabling the detection of static presence and precise location within a defined zone. Designed with a miniature form factor (Φ35 mm cutout), this sensor is engineered for sophisticated smart automation requiring granular control.



Interface



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

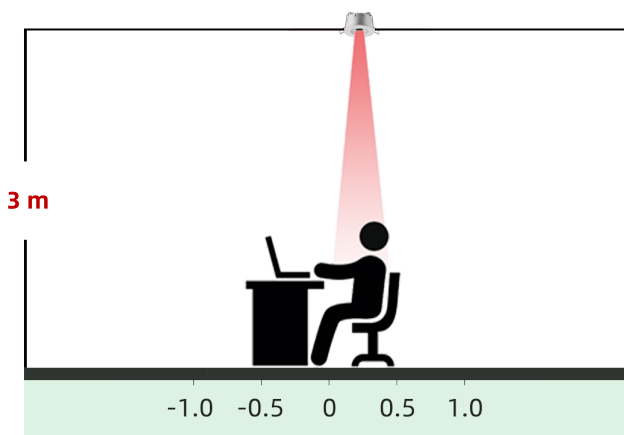
Features

- Accurately detects presence, occupancy, approach, and departure.
- 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.

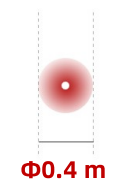
Specifications

Communication Type	KNX TP
Input Voltage	DC 21 to 30 V
Operating Current	≤ 10 mA
Indicator Light	LED
Detection Mode	ToF Time of Flight Sensor
Light Source	940 nm
Laser Safety	Class 1 (IEC 60825-1:2014)
Update Rate	15Hz / 30 Hz
Installation Method	Recessed Ceiling Mount
Mounting Height	2.0 to 4.0 m
Detection Angle	20°
Detection Coverage	≤ 0.4 m
Detection Range	0.1 to 3.2 m (sensor to target)
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	PC

Detection Range

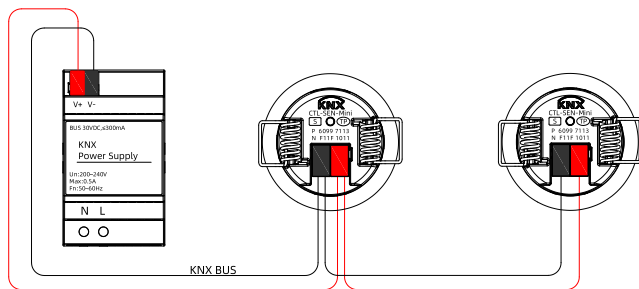


Front View



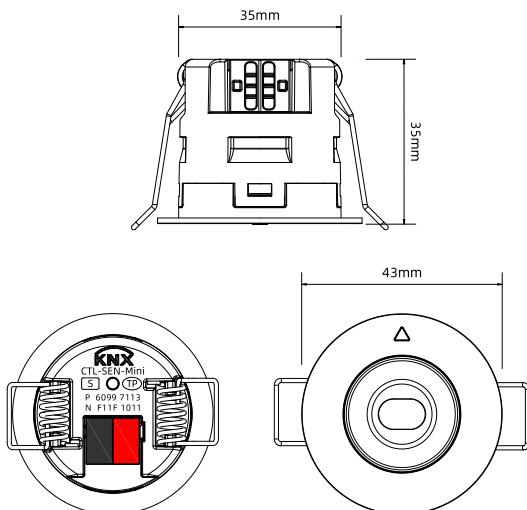
Top View

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

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

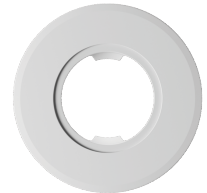
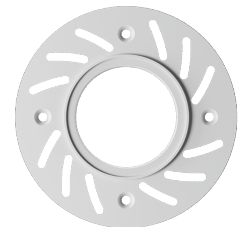
Unpacking: Unpack carefully and inspect contents immediately. Dispose of packaging per local regulations.

Electrical Safety: Disconnect power before wiring. Follow the wiring diagram using certified cables and ensure the system has short-circuit and overload protection. Avoid direct contact with circuit 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. Follow wiring diagrams strictly. The manufacturer assumes no liability 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)Surface Mounting Socket
(60.99.0A50)Surface Mounting Universal Bracket
(60.99.A360)

Ordering Information

P/N	Short Name	Model	Remarks
60.99.7113	Mini-ToF-KNX	CTL-SEN-Mini/7113	White (Default)
60.9B.7113	Mini-ToF-KNX/B	CTL-SEN-Mini/7113B	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