

TECHNICAL SUPPORT

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KEY FEATURES

True Presence
 Detects breathing — not just movement. Keeps lights on while you are still.

Day/Night Mode
 LUX control enables operation 24/7 or night-only below 3 LUX.

Smart Timer
 Delay resets automatically on new signal. Min 10s, Max 12min.

Adjustable Range
 Coverage from 2m to 8m diameter. Ideal for any room size.

Energy Saving
 Lights turn off automatically when the space is vacated.

LOAD COMPATIBILITY

✓ LED / CFL	Recommended. High efficiency.
✓ Incandescent	Fully compatible.
✓ Fluorescent	Use with compatible ballast.
△ Low-voltage	Check transformer compatibility.
✗ Motors / fans	Not recommended.

SPECIFICATIONS

Voltage:	110–240V AC
Frequency:	50/60 Hz
HF System:	24 GHz CW Radar, ISM
Max Load:	💡 2000W (220–240V) 1000W (110–130V) ⚡ 1000W (220–240V) 500W (110–130V)
IP Class:	IP44
Detection Range:	360°
Detection Distance:	2–8m (adjustable)
Ambient Light:	<3–2000 LUX (adj.)
Install Height:	2–4m (ideal: 3m)
TX Power:	<10 mW
Time Delay:	10 sec – 12 min

TROUBLESHOOTING

Load does not work
 Check power supply, load, and ensure LUX is set correctly for ambient conditions.

Poor sensitivity
 Check ambient temperature, signal source position, and installation height.

Will not switch off
 Check for continuous signals in range, verify TIME is not at maximum, ensure load does not exceed specification.

ADJUSTMENT

3 – 2000 LUX
 Ambient light threshold. Set to SUN for 24/7 operation; set to 3 for night-only mode (<3 LUX).

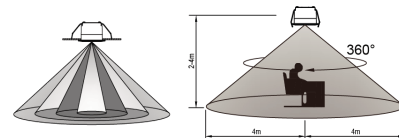
Low – High Sensitivity
 Detection sensitivity (2m–8m diameter). Adjust to match room size and layout.

10s – 12min Time delay
 Light-off delay after last motion. Min 10 sec ±3 sec, max 12 min ±1 min.

TESTING PROCEDURE

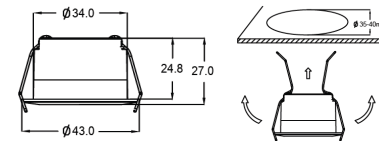
- 1 Set LUX to SUN (max), SENS to + (max), TIME to 10s (min).
- 2 Power on — light illuminates immediately for ~10 seconds.
- 3 Within 4m: sensor detects breathing. Light stays on.
- 4 Beyond 4m: light turns off after set delay if no movement.
- 5 For night-only use, turn LUX to position 3 (min).

DETECTION FIELD



INSTALLATION

- 01 Switch off the power supply.
- 02 Remove the sensor cover.
- 03 Connect wires per the wiring diagram.
- 04 Reinstall the cover.
- 05 Insert sensor into mounting hole.

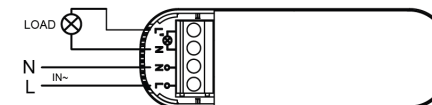


- 06 Power on and run test.

WARNING

Danger of death through electric shock! Installation must be carried out by a qualified electrician with the power completely disconnected.

CONNECTION DIAGRAM



24 GHz Microwave Radar

360° True Presence Detection

IP44

110–240V AC

2–8m Range

Max 2000W



QUICK START

- 01

Install sensor at 2–4m height. Ideal: 3m. Ensure clear 360° view of the area.
- 02

Connect L (Live), N (Neutral) and LOAD per the wiring diagram. Use by a electrician only.
- 03

Apply power. LED will flash once. Sensor enters 30-second calibration mode.
- 04

Set LUX, SENS, and TIME knobs to desired levels. See Adjustment section.
- 05

Walk into range. Light should turn ON. Leave area — light should turn OFF after set delay.
- 06

Sensor is now operational. Adjust settings as needed for your environment.

NOTE
During calibration (first 30 seconds after power-up) the sensor will not trigger. This is normal.

WARNING
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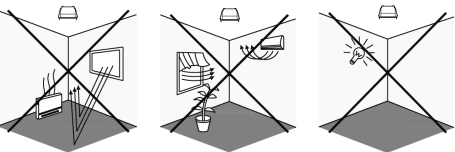
PLACEMENT GUIDE

PLACEMENT DO'S

- Centre ceiling mount for widest 360° coverage
- 3m height gives optimal 2–8m floor coverage
- Faces open room areas, not towards walls

AVOID

- Pointing at mirrors, glass, or metallic surfaces
- Near HVAC vents, radiators, or open windows
- Positions where draughts or foliage can trigger false detection



HOW IT WORKS

- 24 GHz Radar

High-frequency microwave penetrates clothing. Detects tiny chest movements from breathing.
- Doppler Effect

The sensor detects frequency shifts in reflected waves caused by any body movement — including respiration.
- Presence vs Motion

Unlike PIR sensors, SINO PRO detects stationary people. No need to wave your hand to keep lights on!
- Intelligent Filter

Built-in signal processing filters out interference from fans, curtains, and HVAC systems.

APPLICATIONS

- Home

Living rooms, bedrooms, offices, corridors — ensures lights stay on while occupied.
- Commercial

Open-plan offices, conference rooms, hotel lobbies, retail spaces.
- Industrial

Warehouses, workshops. IP44 rating suits demanding environments.
- Outdoor*

Covered porches, garages. *IP44: sheltered locations only. Not for direct rain exposure.

WARRANTY
REGISTRATION CARD

Product:

SINO PRO True Presence Sensor

Serial No:

Purchase Date:

Retailer:

WARRANTY TERMS
SINO PRO warrants this product against defects in materials and workmanship for 5 years from the date of purchase. Warranty does not cover damage from misuse, unauthorised modification, or installation not complying with these instructions.

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SINO
PRO

True Microwave Presence Sensor
24 GHz · IP44 · 360° · 110–240V AC

SCAN TO VISIT



Ver. 1.1 · Rev. 2026-04
Subject to change without notice. Always follow local electrical codes and safety regulations. Keep this manual for future reference.