

SINO M16

MICROWAVE MOTION SENSOR

TECHNICAL SUPPORT

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KEY FEATURES

Motion Detection

Wide-range microwave detection up to 16m diameter.
Detects motion through glass, doors and thin walls.

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 4m to 16m diameter. Ideal for large halls, corridors and warehouses.

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:	220–240V AC
Frequency:	50 Hz
HF System:	5.8 GHz CW Radar, ISM
Max Load:	2000W (220–240V) 1000W (220–240V)
IP Class:	IP44
Detection Range:	360°
Detection Distance:	4–16m (adjustable)
Ambient Light:	<3–2000 LUX (adj.)
Install Height:	2–4m (ideal: 3m)
TX Power:	<10 mW
Time Delay:	10 sec – 12 min
Power Consumption	~0.8W

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 (4m–16m diameter). Adjust to match room size and layout.



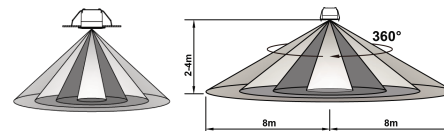
10s – 12min Time delay

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 8m: sensor detects motion. Light stays on.
- 4 Beyond 8m: light turns off after set delay.
- 5 For night-only use, turn LUX to position 3 (min).

DETECTION FIELD

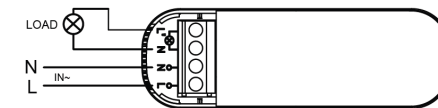


INSTALLATION

- 01 Switch off the power supply.

- 02 Remove the sensor cover.

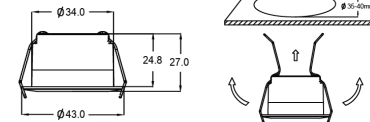
- 03 Connect wires per the wiring diagram.



CONNECTION DIAGRAM

- 04 Reinstall the cover.

- 05 Insert sensor into mounting hole or installation box. Release spring to lock.



- 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.

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SINO M16

5.8 GHz Microwave Radar

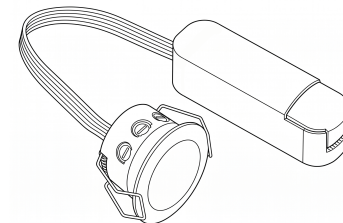
360° Motion Detection

IP44

220–240V AC

4–16m Range

Max 2000W



PRODUCT MANUAL

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.
- 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.

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PLACEMENT GUIDE

PLACEMENT DO'S

- Centre ceiling mount for widest 360° coverage
- 3m height gives optimal 4–16m floor coverage
- Faces open room areas, not towards walls

AVOID

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



HOW IT WORKS

- 5.8 GHz Radar

5.8 GHz microwave signal penetrates glass, thin walls and doors to detect motion in adjacent spaces.
- Doppler Effect

The sensor detects frequency shifts in reflected waves caused by any body movement — including respiration.
- Wall Penetration

Unique to 5.8 GHz, the sensor can detect motion through glass panes, wooden doors and thin partition walls.
- Wall Long Range Advantage

At up to 16m diameter, Sino M16 covers 4× more floor area than a standard PIR sensor — ideal for large halls and open corridors.

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 M16 Microwave Motion Sensor

Serial No:

Purchase Date:

Retailer:

WARRANTY TERMS

SINO M16 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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5.8 GHz Microwave Motion Sensor
5.8 GHz · IP44 · 360° · 220–240V AC

SCAN TO VISIT
WEBSITE



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.