

SINO F6

PIR PRESENCE SENSOR

TECHNICAL SUPPORT

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KEY FEATURES

PIR Technology

Uses passive infrared energy radiated by the human body. No microwave emission — completely safe for continuous use.

Day / Night Mode

LUX knob controls operation. Full-time (SUN) or night-only mode for ambient light below 3 LUX.

Smart Auto-Off

Time-delay resets on every new detection within the period. Lights remain on as long as motion is present.

Wide Coverage

360° detection at up to 6m diameter. Ideal for rooms, corridors, stairwells and hallways.

Energy Saving

Automatically cuts power to connected load when no motion is detected, reducing wasted electricity.

TROUBLESHOOTING

Load does not work

Verify power and load connections. Confirm LUX is set correctly for ambient conditions. Check the load device is functional.

Poor sensitivity

Remove obstructions from detector path. Ambient temp above 40°C reduces range. Verify correct installation height and that movement crosses the detection field.

Will not switch off

Check for continuous motion in the field. Verify TIME knob is not at maximum. Ensure load wattage does not exceed rated limit.

SPECIFICATIONS

Voltage:	110–240V AC
Power Frequency:	50/60 Hz
Sensor Type:	Passive Infrared (PIR)
Detection Range:	360°
Detection Distance:	6m max (at <24°C)
Moving Speed:	0.6–1.5 m/s
Ambient Light:	<3–2000 LUX (adj.)
Max Load :	2000W (220–240V) 1000W (110–130V) 1000W (220–240V) 500W (110–130V)
Time Delay:	10 sec – 15 min
Install Height:	2.2–4m (ideal 3m)
Working Temp.:	–20°C to +40°C
Working Humidity:	<93% RH

INSTALLATION ADVICE

Avoid highly reflective surfaces (mirrors, glass). Keep away from heat sources and HVAC vents. Do not point at objects that move in wind (curtains, plants). Install at 2.2–4m height.

WARNING

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

ADJUSTMENT



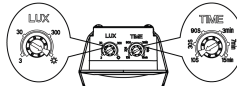
3 – SUN

Ambient light threshold. SUN = operates day & night. Position 3 = night-only (below 3 LUX). Always set to SUN when testing in daylight.



10s – 15min

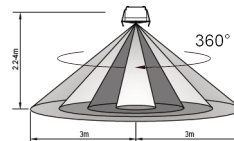
Auto-off delay after last detected motion. Min 10 sec ±3 sec; Max 15 min ±2 min. Delay resets automatically on each new detection.



TESTING PROCEDURE

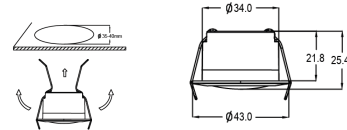
- 1 Set LUX to SUN (max). Set TIME to minimum (10s).
- 2 Power on. Wait 30 seconds for warm-up to complete.
- 3 Enter detection field — lamp illuminates within 1 second.
- 4 Stay still — after 10 sec ±3 sec the lamp will turn off.
- 5 For night-only mode: set LUX to position 3 (minimum).

DETECTION FIELD



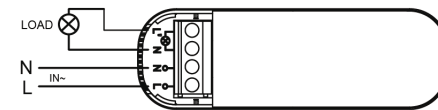
INSTALLATION

- 01 Switch off the power at the circuit breaker.
- 02 Remove the sensor cover carefully.
- 03 Connect wires per the wiring diagram (L, N, LOAD).
- 04 Replace cover and secure in position.
- 05 Fold metal spring up; insert into mounting hole or box. Release to lock.



- 06 Restore power and perform the test procedure.

CONNECTION DIAGRAM



SINO F6

PIR MOTION SENSOR

Passive Infrared Technology

360° Detection • 6m Range

6m Max Range

Max 2000W

–20 to +40°C

10s – 15min



QUICK START

- 01

Install at 2.2–4m height. Centre of ceiling is ideal. Ensure a clear, unobstructed 360° view of the monitored area.
- 02

Connect L, N, and LOAD terminals per wiring diagram. Isolate power before any wiring. Use a qualified electrician.
- 03

Apply power. A 30-second warm-up period begins — no detection during this time.
- 04

Turn LUX knob to SUN for day & night operation, or to position 3 for night-only activation below 3 LUX.
- 05

Adjust TIME knob to desired delay: from 10 seconds to 15 minutes.
- 06

Walk into range — light turns ON. Leave area and confirm light turns OFF after set delay. Adjust as needed.

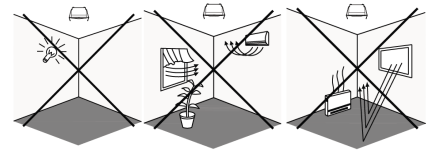
WARNING

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WARM-UP REMINDER

30-second warm-up after every power-on is normal. No trigger during this period.

PLACEMENT GUIDE



Ideal height: 3m

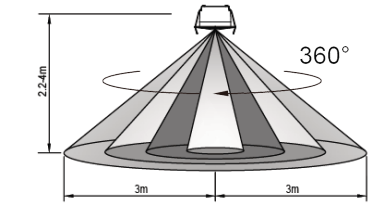
DO'S

- Centre-ceiling mount for full 360° coverage.
- Height 2.2–4m; 3m gives optimal 6m floor radius.
- Open area clear of obstructions in all directions.

AVOID

- Mirrors, glass, or highly reflective surfaces in range.
- Heat sources: vents, AC units, halogen lamps.
- Moving draughts: curtains, tall plants, fans.
- Areas where ambient temp exceeds 40°C.

HOW IT WORKS



Fresnel Lens focuses IR on pyroelectric sensor

Pyroelectric Sensor

Detects changes in infrared radiation emitted naturally by any warm body. The sensor triggers when IR levels shift, indicating motion.

Fresnel Lens

The grooved plastic lens creates multiple detection zones. Movement across zone boundaries generates a signal — the sensor needs crossing motion to trigger.

No Emission

PIR is entirely passive. It emits no radiation of any kind, making it safe for continuous residential and commercial use.

Temperature Sensitivity

PIR efficiency decreases as ambient temperature approaches body temperature (~37°C). Above 40°C performance may degrade.

APPLICATIONS

- Residential**
Hallways, stairwells, bathrooms, garages. Hands-free lighting for daily convenience.
- Commercial**
Offices, meeting rooms, retail areas. Automate lighting for energy savings.
- Industrial**
Warehouses, loading bays. IP44 rated for dusty, lightly damp environments.
- Outdoor***
Covered porches, carports. not for direct rain exposure.

LOAD COMPATIBILITY

- ✓

LED / CFL

Recommended — best efficiency.
- ✓

Incandescent

Fully compatible.
- ✓

Fluorescent

Use with compatible ballast.
- ⚠

Low-voltage

Verify transformer compatibility.
- ✗

Capacitive loads

Not recommended.

WARRANTY
REGISTRATION CARD

Product:

SINO F6 PIR Motion Sensor

Serial No:

Purchase Date:

Retailer:

WARRANTY TERMS

SINO F6 warrants this product against defects in materials and workmanship for 3 years from purchase date. Warranty excludes damage from improper installation, unauthorised modification, physical abuse, or use outside rated specifications. Retain proof of purchase.

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PIR Motion Sensor

PIR · 360° · 110–240V AC

SCAN TO VISIT



Ver. 1.0 · Rev. 2026-04
Specifications subject to change without notice. Always comply with local wiring regulations. Keep this manual for future reference.