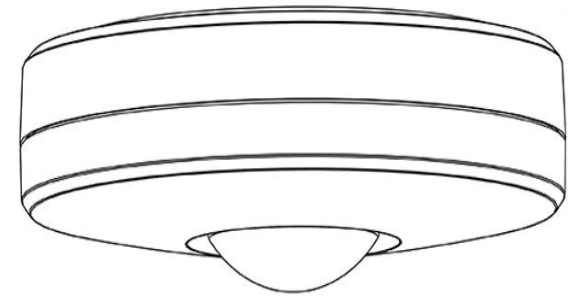


INSTALLATION MANUAL



INFRARED MOTION

SENSOR

MS-12M-360-SM

Introduction

MS-12M-360-SM infrared motion sensor

The product adopts good sensitivity detector and integrated circuit. It gathers automatism, convenience, safety, saving-energy, and practical functions. The motion sensor utilises infrared energy from human as a control-signal source and can start the load at once when entered detection field. It is easy to install, can identify day and night automatically and is used widely.

Specifications

Power Source: 220-240V/AC

Power Frequency: 50/60Hz

Ambient Light: <3-2000LUX (adjustable)

Time Delay: Min.10sec±3sec

Max.15min±2min

Rated Load: Max.1200W

300W



Detection Range: 360°

Detection Distance: 12m max(<24°C)

Working Temperature: -20~+40°C

Working Humidity: <93%RH

Power Consumption: approx 0.5W

Installation Height: 2.2-4m

Detection Moving Speed: 0.6-1.5m/s

Function

- Day and Night Detection: Adjust the working state, it can work in daytime and at night when it is adjusted on the "sun" position(max). It can work in the ambient light less than 3LUX when it is adjusted on the "3" position(min). As for the adjustment pattern, please refer to the testing pattern.
- Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.

Manual Override Function

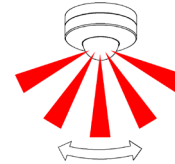
1. Sensor mode → Stay on

Turn switch wall switch to OFF-ON twice within 3seconds. The sensor will hold your light ON continuously just likes a normal light.

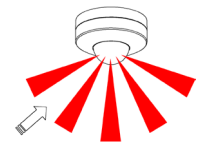
2. Stay on → Sensor mode (use any method as per below)

1). Switch your wall, switch OFF, then switch ON after 0.3seconds.

2). If the light is left ON (*Do not change the sensor to sensor mode manually.*), the sensor itself will also automatically return to the sensor mode after 8 hours.



Good sensitivity

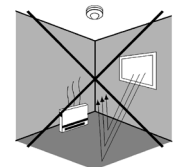
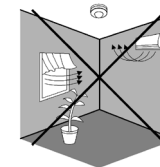
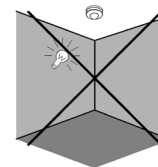


Poor sensitivity

Installation

As the detector responds to changes in temperature, avoid the following situations:

- Avoid pointing the detector towards objects with highly reflective surfaces, such as mirrors etc.
- Avoid mounting the detector near heat sources, such as heating vents, air conditioning units, light etc.
- Avoid pointing the detector towards objects that may move in the wind, such as curtains, tall plants etc.



Connection

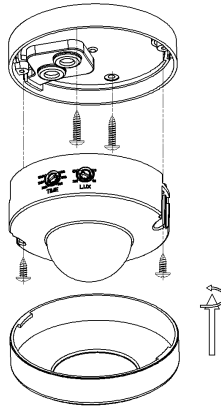


WARNING

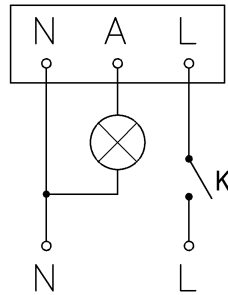
Warning. Danger of death through electric shock!

- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

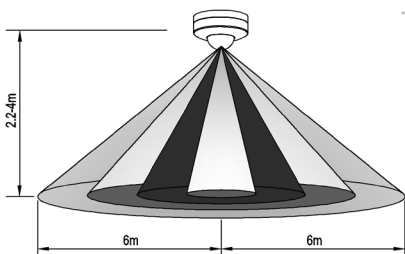
- Please move the upper cover with anti-clockwise whirl as per the diagram on the right.
- Connect the power and the load according to the connection-wire diagram.
- Fix the bottom on the selected position with the inflated screw.
- Install back the upper cover on the sensor, then you could switch on the power and test it.



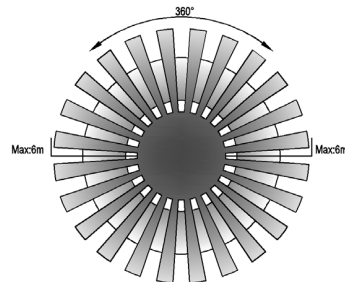
Connection Wire Diagram



Sensor Information



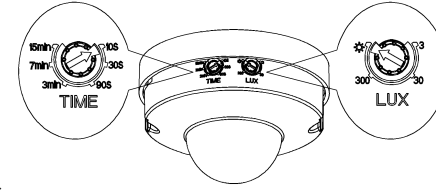
Height of installation: 2.2-4m




Detection Distance: Max12m

Test

- Turn the TIME knob anti-clockwise on the minimum (10s). Then turn the LUX knob clockwise on the maximum (sun).
- Switch on the power; the sensor and its connected lamp will have no signal at the beginning. After Warm-up 30sec, the sensor will start working. If the sensor receives the induction signal, the lamp will turn on. While there is no another induction signal any more, the load should stop working within $10\text{sec} \pm 3\text{sec}$ and the lamp would turn off.
- Turn LUX knob anti-clockwise on the minimum (3). If the ambient light is more than 3LUX, the sensor would not work and the lamp stop working too. If the ambient light is less than 3LUX (darkness), the sensor would work. Under no induction signal condition, the sensor should stop working within $10\text{sec} \pm 3\text{sec}$.



Note: When testing in daylight, please turn LUX knob to  (SUN) position, otherwise the sensor lamp won't work!

Troubleshooting

- The load does not work:
 - Please check if the connection of power source and load is correct.
 - Please check if the load is good.
 - Please check if the settings of working light correspond to ambient light.
- The sensitivity is poor:
 - Please check if there is any hindrance in front of the detector to affect it to receive the signals.
 - Please check if the ambient temperature is too high.
 - Please check if the induction signal source is in the detection field.
 - Please check if the installation height corresponds to the height required in the instruction.
 - Please check if the moving orientation is correct.
- The sensor cannot shut off the load automatically:
 - Please check if there is continual signal in the detection field.
 - Please check if the time delay is set to the maximum position.
 - Please check if the power corresponds to the instruction.