

ST41L

Infrared Motion Sensor



Instruction

Welcome to use ST41L infrared motion sensor!

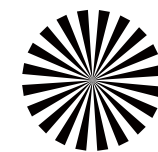
The product adopts good sensitivity detector and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practical functions. It utilizes the infrared energy from human as control-signal source and it can start the load at once when one enters detection field. It can identify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

SPECIFICATION

Voltage	220-240V/AC	Detection Angle	360°
Power Frequency	50/60Hz	Detection Distance	Max. 40m(<24°C)
Time Delay	Min. 10sec±3sec Max. 15min±2min(adjustable)	Ambient Light	<3-2000LUX (adjustable)
Rated Load	Max. 2000W  1000W 	Working Temperature	-20~+40°C
IP Class	IP54	Working Humidity	<93%RH
		Installation Height	2.2-4m
		Detection Moving Speed	0.6-1.5m/s

FUNCTION

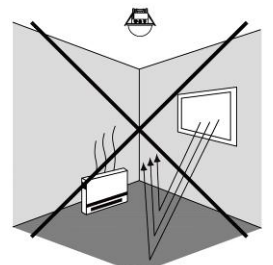
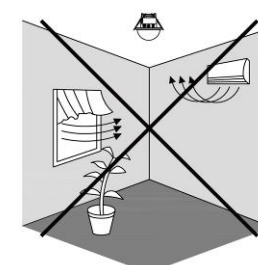
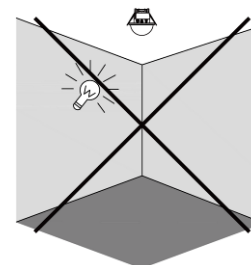
- Can identify day and night: The consumer can adjust working state in different ambient light. It can work in the daytime and at night when it is adjusted on the “sun” position (max). It can work in the ambient light less than 3LUX when it is adjusted on the “3” position (min). As for the adjustment pattern, please refer to the testing pattern.
- SENS adjustment: It can be adjusted according to using location. The detection distance of low sensitivity could be only 5m(radius) and high sensitivity could be 20m(radius) which fits for large room.
- Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.



INSTALLATION ADVICE

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



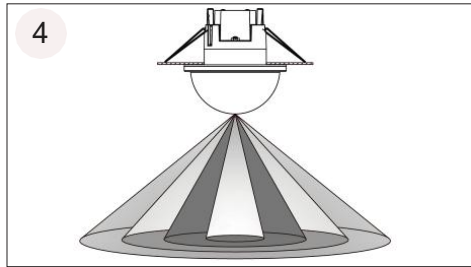
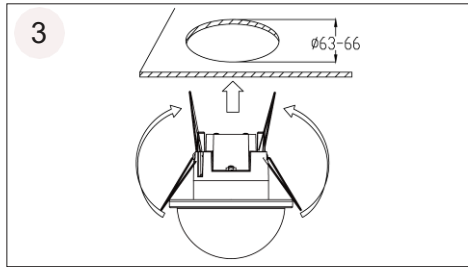
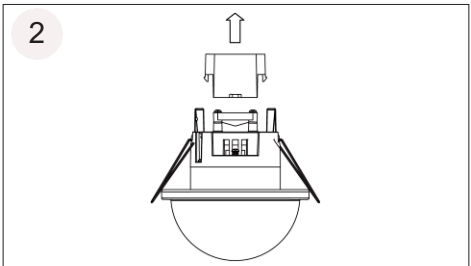
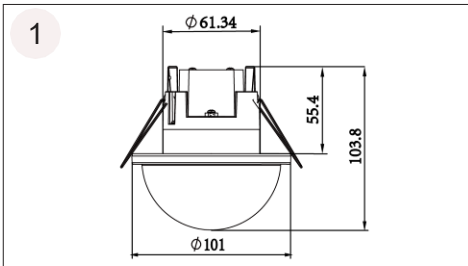
WARNING Danger of death through electric shock!



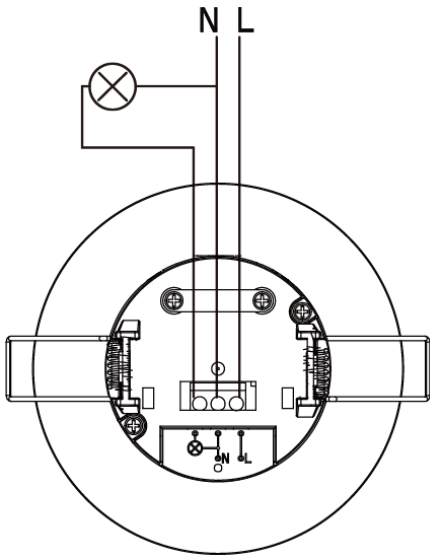
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

INSTALLATION

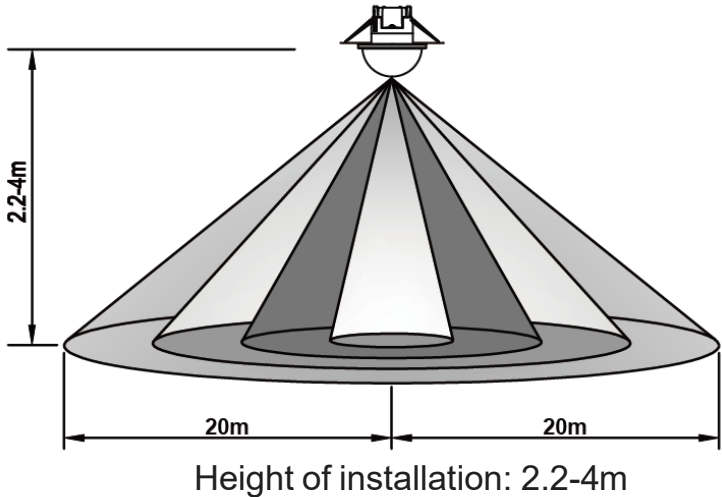
- Unload the transparent cover.
- Connect the power to connection terminal of sensor according to connection-wire diagram.
- Install back the transparent cover into the original location.
- Fold the metal spring of the sensor upwards and then put the sensor into the suitable hole or installation box. Release the spring, the sensor will be set in this installation position.
- After finishing installing, turn on the power and then test it.



CONNECTION-WIRE DIAGRAM



SENSOR INFORMATION



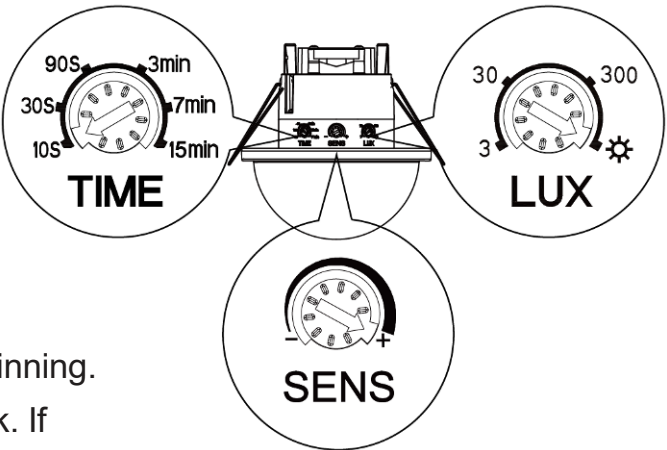
TEST

- Turn the TIME knob anti- clockwise on the minimum (10s). Turn the SENS knob clockwise on the maximum(+).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 can start work. 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 10sec±3sec 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 10sec±3sec.



Note: when testing in daylight, please turn LUX knob to ☀ (SUN) position, otherwise the sensor lamp could not work!

SOME PROBLEM AND SOLVED WAY

- **The load do not work:**
 - a. Please check if the connection-wiring of power and load is correct.
 - b. Please check if the load is good.
 - c. Please check if the working light sets correspond to ambient light.
- **The sensitivity is poor:**
 - a. Please check if there has any hindrance in front of the detection window to affect to receive the signal.
 - b. Please check if the ambient temperature is too high.
 - c. Please check if the induction signal source is in the detection fields.
 - d. Please check if the installation height corresponds to the height showed in the instruction.
 - e. Please check if the moving orientation is correct.
- **The sensor can not shut off the load automatically:**
 - a. Please check if there is continual signal in the detection field.
 - b. Please check if the time delay is the longest.