ST701BR-B

Real Microwave Presence Sensor

Instruction

Welcome to use ST701BR-B Real Microwave Presence Sensor!

The product adopts microwave sensor mould with high-frequency electro-magnetic wave (24GHz) and integrated circuit. It detects human breath, as long as people are present, the lights will remain on. When people leave, the lights will go out. It gathers automatism, convenience, safety, saving-energy and practical functions.

SPECIFICATION

Voltage	220-240V/AC	Detection Range	180°/360°
Power Frequency	50/60Hz	Ambient Light	<3-2000LUX (adjustable)
Time Delay	Min. 10sec±3sec Max. 12min±1min	Detection Distance	wall:max 6m ceiling:2-8m(diameter) adjustable
Rated Load	Max.1200W 300W	HF System	24GHz CW radar, ISM band
		Installing Height	wall:1-2.5m ceiling:2-4m
Transmission Power	<10mW		

FUNCTION

- Can identify day and night: 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.
- When the detection distance is within 8m(diameter), it detects human breathing and keeps lamp on continuously.
- Time-Delay is added continually: When it receives the second induction signals within the first induction, it will restart to time from the moment.
- Time–Delay is adjustable. It can be set according to the consumer’s desire. The minimum time is 10sec±3sec. The maximum is 12min±1min.

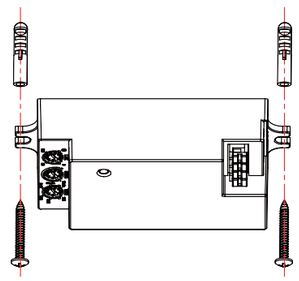
CONNECTION

⚠ WARNING Danger of death through electric shock!

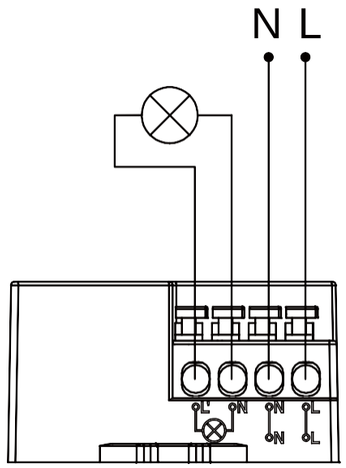
- Must be installed by professional electrician.
- Disconnect power source.
- Cover or shied any adjacent live components.
- Ensure device cannot be switched on.
- Check power supply is disconnected.

INSTALLATION (see the diagram)

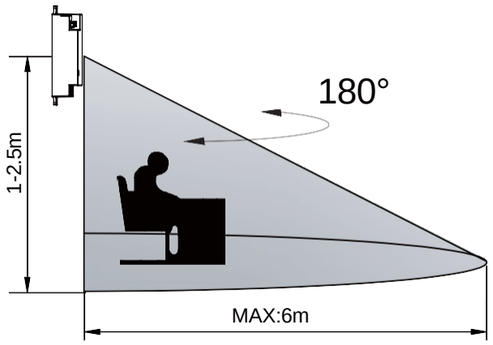
- Switch off the power.
- Fix the bottom on the selected position with the inflated screw through the screw holes at the side of the sensor.
- Connecting the power and the load to sensor as per the connection-wire sketch diagram.
- Switch on the power and test it.



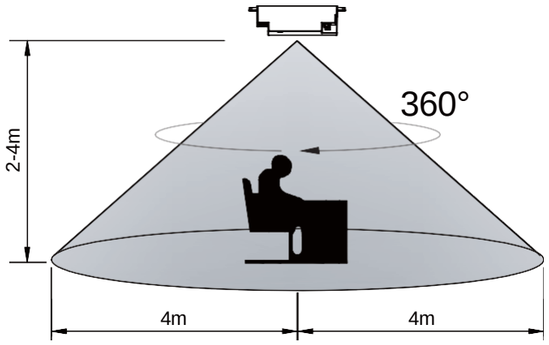
CONNECTION-WIRE DIAGRAM



SENSOR INFORMATION

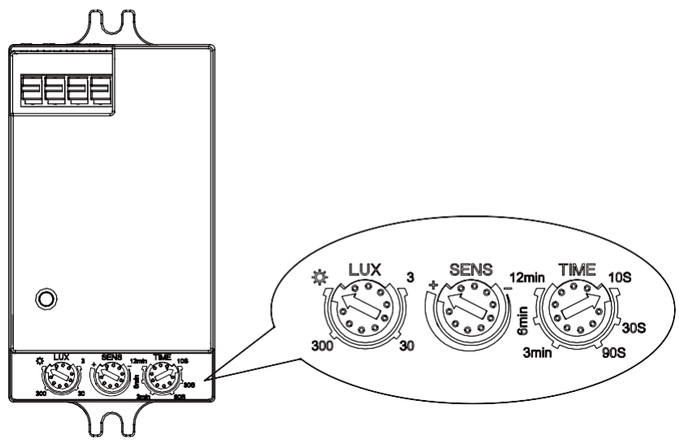


Height of installation: 1-2.5m (wall mounting)



Height of installation: 2-4m (ceiling mounting)

TEST



- Turn the LUX knob clockwise on the maximum (sun), Turn the SENS knob clockwise on the maximum (+). Turn the TIME knob anti-clockwise on the minimum (10s).
- When you switch on the power, the light will be on at once. And 10sec±3sec later the lamp will be off automatically. Then if the sensor receives induction signal again, it can work normally.
- When a person is within 4m of the sensor,it can detects human breathing and keeps lamp on continuously. When the distance exceeds 4m and there is no another human movement ,the lamp will turn off after a setting time.
- When the sensor receives the second induction signals within the first induction, it will restart to time from the moment.
- Turn LUX knob anti-clockwise on the minimum (3). If the ambient light is less than 3LUX (darkness), the inductor load could work when it receives induction signal.

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

NOTES

- Electrician or experienced human can install it.
- Can not be installed on the uneven and shaky surface.
- In front of the sensor there shouldn't be obstructive object affecting detection.
- Avoid installing it near the metal and glass which may affect the sensor.
- For your safety, please don't open the case if you find hitch after installation.

SOME PROBLEM AND SOLVED WAY

- **The load don't work:**
  - a. Check the power and the load.
  - b. Whether the indicator light is turned on after sensing? If yes, please check load.
  - c. If the indicator light does not turn on after sensing, please check if the working light corresponds to the ambient light.
  - d. Please check if the working voltage corresponds to the power source.
- **The sensitivity is poor:**
  - a. Please check the ambient temperature.
  - b. Please check if the signals source is in the detection fields.
  - c. Please check the installation height.
- **The sensor can't shut automatically the load:**
  - a. If there are continual signals in the detection fields.
  - b. If the time delay is set to the longest.
  - c. If the power corresponds to the instruction.