SHENZHEN SALENS TECHNOLOGY CO.,LTD

SL632 AC170-250V Motion Detecting Switch

Overview：

    Type：Three-wire infrared sensor switch
    Voltage： AC170-250V 50HZ
    Power：Bulb ≤1000W. CFL,LED lamp≤200W

    This auto-control product is based on the infrared line technology. When human enters the sensing range, the sensor detects the change of human body infrared spectrum and the switch connects load automatically. If human is moving within range of sensing, the switch will keep on. Otherwise it will automatically turns off after delay time.
    The switch is the latest product, representing science progress. Also it's the ideal one to replace mechanical, touch and acoustic switches.

Features：

■ Automatic Sensing: AC170-250V，automatically turns off after delay time when human leaves the sensing range, controlled by relay.

■ Photosensitive Control (optional, default setting: Off)：While turning on photosensitive control, the switch will not sense during daytime or when the light is strong.

■ Temperature Compensation (optional, default setting: Off)：In summer, environment temperature raises to 30～32℃, which causes sensing range shortening. The temperature compensation will make some compensation for it.

■ Triggering in two ways:
A.Unrepeatable triggering mode: After the sensor detects and outputs, the switch will automatically turn off once the delay time is over.
B. repeatable triggering mode: After the sensor detects and outputs , if there is any motion of human within range during the delay time, it will keep on outputting. Otherwise it will shut down when delay time is over. Every time the module detects human motion the delay time period will restart. And the last motion will be the start point.

■ Sensing Blocking Time(Default: 1s)：The module can set a blocking time period after every output. During this period, the sensor will

refuse any kind of sensing signal. The interval work between sensing output time and blocking time can be used to interval detecting products. Meantime, this function will effectively restrict the interference in the load switching process.

■ Optional working voltage：AC170-250V。

■ Micro-power consumption: Quiescent current ＜ 60uA.

Applications:

■ Human sensing lamps and lanterns

■ Staircase lamps

■ Security product

■ Street lamps

■ Auto-sensing electric devices

■ Strong current control

■ Industrial automatic control

■ Other AC power control products

Technical parameters：

Operating Voltage	AC170-250V
Quiescent current	0.1W
Voltage output	AC220V
Load power	Bulb ≤1000W. CFL, LED lamp≤200W
Triggering method	L:unrepeatable triggering mode /H: repeatable triggering mode (default)
Delay time	Default 20-30s, 15-300s adjustable
Blocking time	Default 1S，craftable from a few fraction seconds to no more than 100s.
PCB dimension	41.5mm*54.5mm Housing dimension: 86mm*86mm
Sensing angle	110-140° taper angle
Sensing range	Default 5-8m，2-12m adjustable
Working temperature	-20-+45°
Illuminance	Default 5LUX, 5-5000 adjustable (Able to work in day time)

Physical Dimension：

54.5mm

41.5mm

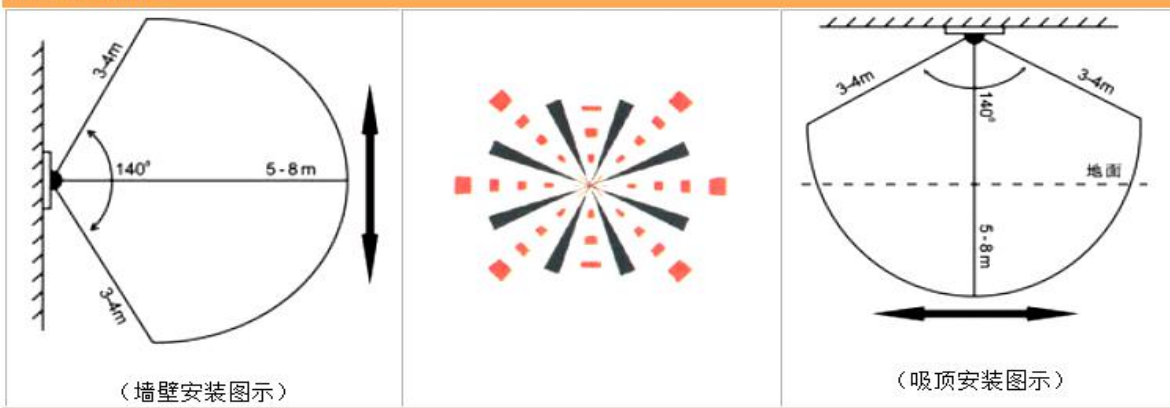Delay time adjustment   Photosensitivity adjustment

Sensing range adjustment
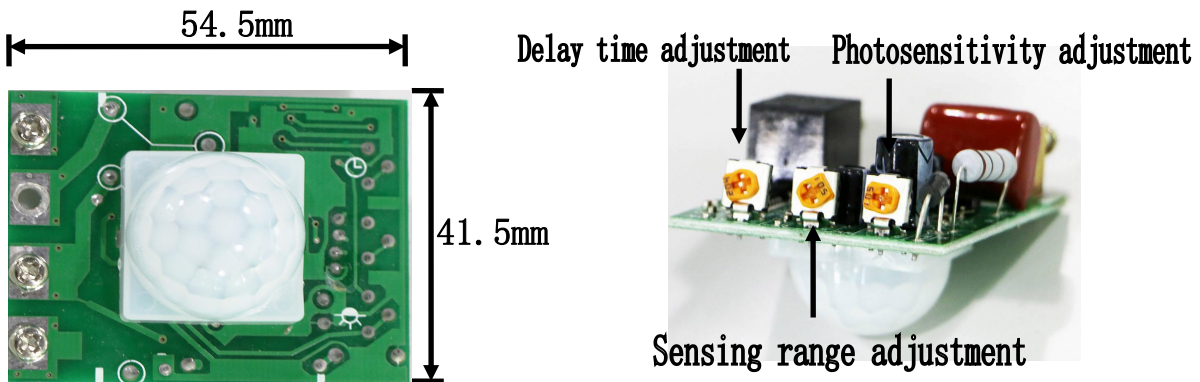
Note:

Rotate the potentiometer clockwise to increase the sensing range(about 12m). Otherwise, the sensing range decreases(about 3m).
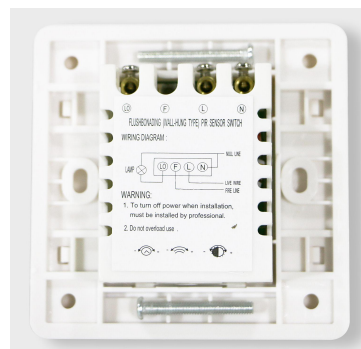
Rotate the potentiometer clockwise to increase the delay time(about 300s). Otherwise, the delay time decreases(about 1s).
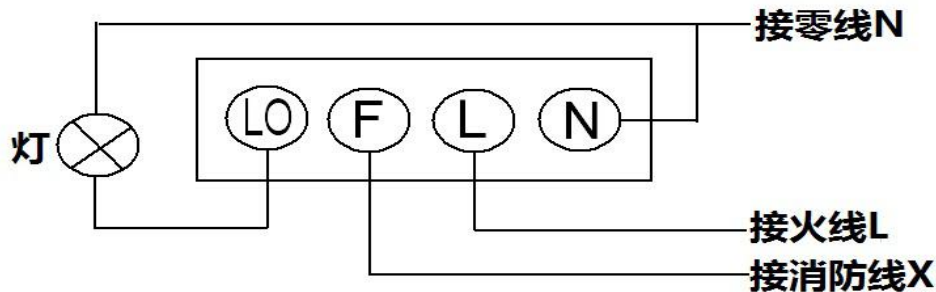
Sensing range：

感应范围图示：

3-4m   140°   5-8m   3-4m

（墙壁安装图示）

3-4m   140°   3-4m   地面   5-8m

（吸顶安装图示）

Outline：

Wiring diagram：

Schematic diagram:

Please try to adjust the product slightly by slot type screwdriver.

　　　　1.Delay time adjustment　　2.Sensing range adjustment　　3. Photosensitivity adjustment

Figure 1：Rotate anticlockwise to decrease delay time, clockwise to increase.

Figure 2：Rotate anticlockwise to decrease sensing range, clockwise to increase sensing range.

Figure 2：Rotate anticlockwise to work in weaker light , clockwise to work in strong light.

使用注意说明：

■ There is a 1-minute initialization time after charging the module. During this period, the module will alternately output 0-3 times. Then it starts the normal standby status.

■ To avoid receiving interference signal to generate malfunction, please don't expose the lens directly to the light or other interferences while installing. Try to avoid floating wind in the operating environment, since it will interfere the device.

■ Please notice the right direction and angle while installing. Try to parallel the square window of the module to the direction with the most human activities to reach the best sensing effect.

■ The sensing range will be shorter when the environment increases to human surface temperature（30～32℃）. It's a normal outcome of temperature influence.