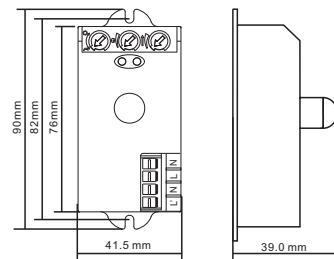


■ Microwave Sensor SK601A instruction

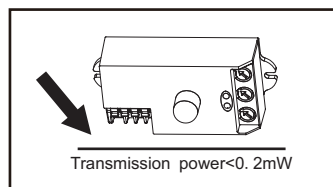


SPECIFICATIONS

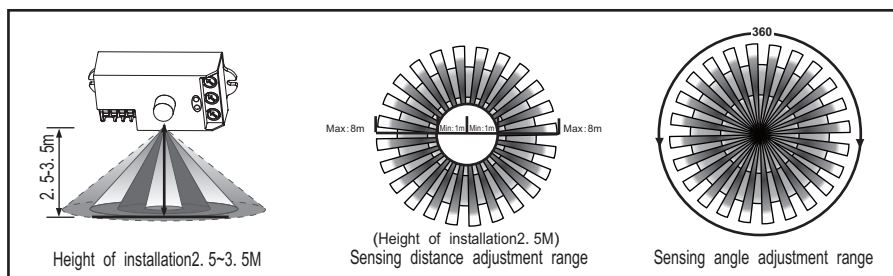
Power source: 12V/DC ☐ 24V/DC ☐
 110-130V/AC ☐ 220-240V/AC ☐
 Power frequency: 50/60Hz
 Transmission power: <0.2mW
 Rated load:
 1000W/5A, Max, tungsten (cosφ=1) (220-240V/AC)
 300W/2.5A, Max, fluorescent (cosφ=0.5) (220-240V/AC)
 600W/5A, Max, tungsten (cosφ=1) (100-130V/AC)
 150W/2.5A, Max, fluorescent (cosφ=0.5) (100-130V/AC)

Installation site: Indoors, ceiling mounting
 HF system: 5.8GHz CW radar, ISM band
 Reach: 1-8m (radial) adjustable
 Time setting: 10 sec. to 12min.
 Light control: 10~2000Lux
 Power consumption: approx. 0.9W
 Transmission power: <10mW
 Detection angle: 360°
 Working temperature: -15°C~+70°C

NOTE: the high-frequency output of this sensor is <0.2mW- that is just one 5000th of the transmission power of a mobile phone or the output of a microwave oven.



SENSOR INFORMATION

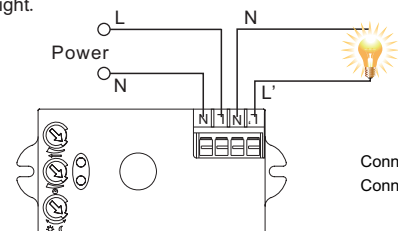


UTILIZING FIELD AND INTRODUCTION

SK601A is a moving object sensor that can detect range of 360° and its working frequency is 5.8G. The advantage of this product is stable working state (stable working temperature: -15°C~+70°C), SK601A adopts a microwave sensor (high-frequency output <0.2mW), so that it is safe and performs better than infrared sensor.

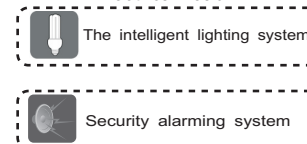
■ Microwave Sensor SK601A instruction

It can be installed inside of product that is made of glass and plastic because that these materials make little effect to microwave. Connect the product as shows below: you can change a common light to an automatic light.



Connect N, L with power;
 Connect N, L' with load.

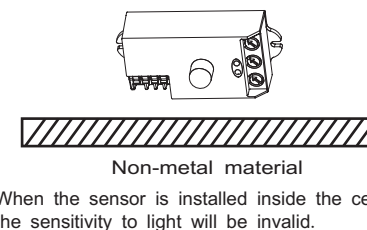
Electrical load



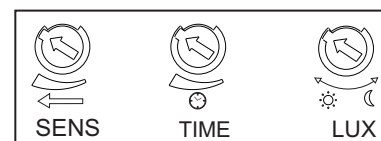
UTILIZED IN CEILING LIGHT



This product can be utilized in more fields than the above examples. You can also install a SK601A in the ceiling directly to control an aisle. There is no problem.



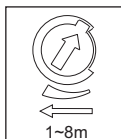
This product will be faithfully waiting for you. It will turn on the light automatically when you pass by, and turn off the light automatically when you leave off. You can set the closing delay time to meet your needs. For example, you may adjust the TIME knob to select the delay time 12min when you think you will come back in 10mins. The TIME knob is as follow (Keep away from the detecting zone after adjusting the testing time or that the detecting time will be inaccurate when any moving object is detected again by the product).



■ Microwave Sensor SK601A instruction

If you want SK601A to detect small zone, you can just adjust the sense knob SENS to the range that you need (You may need to adjust some times until you think it is suitable). If you want that the light can be turned on when the circumstance luminance is under some value, you can just adjust the knob LUX (The working luminance knob) to select the luminance value (You may need to adjust some times until you think it is suitable).

Detection range setting(sensitivity)



Detection range is the term used to describe the radii of the more or less circular detection zone produced on the ground after mounting the sensor light at a height of 2.5m, turn the detection control fully anticlockwise to select minimum detection range (approx. 1m radii), and fully clockwise to select maximum detection range (approx. 8m radii).

Note: the above detection range is gained in the case of a person who is between 1.6m~1.7m tall with middle figure and moves at a speed of 0.6~1.5m/sec. if person's stature, figure and moving speed change, the detection distance will also change.

In different cases, the sensitivity of the lights has certain deviation.

When use this product, please adjust the sensitivity to an appropriate position you need, please do not adjust the sensitivity to maximum, to avoid the product does not work normally caused by wrong motion. Because the sensitivity is too high easily detect the wrong motion by wind blowing leaves & curtains, small animals, and the wrong motion by interference of power grid & electrical equipment. All those lead the product does not work normally ! When the product does not work normally, please try to lower the sensitivity appropriately, and then test it.

Time setting



The light can be set to stay ON for any period of time between approx. 10sec (turn fully anticlockwise) and a maximum of 12min (turn fully clockwise). Any movement detected before this time elapse will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing the walk test.

Note: after the light switches OFF, it takes approx. 4sec before it is able to start detecting movement again. The light will only switch on in response to movement once this period has elapsed.

Light-control setting



The chosen light response threshold can be infinitely from approx. 10~2000Lux. Turn it fully anti-clockwise to select dusk-to-dawn operation at about 10 lux. Turn it fully clockwise to select daylight operation at about 2000lux. The knob must be turned fully clockwise when adjusting the detection zone and performing the walk test in daylight.

■ Microwave Sensor SK601A instruction

Note: please don't adjust the three functional buttons to excess. That is because the three functional buttons were connected to the components directly, there is a small stopper in each of the three components, when you adjust the buttons from start to end, the excessive turn will damage the stopper, and lead to the 360° non-stop turn around. The adjust range limit is 270°, please do pay attention to this.



Warning ! The following situation will lead to misoperation

1. Being installed in the rocking object will lead to misoperation.
2. The shaking curtain which is blown by wind will lead to misoperation, please select the suitable installed place.
3. Being installed in the place where the traffic is busy will lead to misoperation.
4. It will lead to misoperation when there are sparks produced by some equipment nearby.

TROUBLESHOOTING

Malfunction	Cause	Remedy
The load will not work	• wrong light-control setting selected	• Adjust setting
	• load faulty	• Change load
	• mains switch OFF	• Switch ON
The load work always	• continuous movement in the detection zone	• Check zone setting
The load work without any identifiable movement	• the sensor not mounted for detecting movement reliably	• Securely mount enclosure
	• movement occurred, but not identified by the sensor (movement behind wall, movement of a small object in immediate lamp vicinity etc.)	• Check zone setting
The load will not work despite movement	• rapid movements are being suppressed to minimize malfunctioning or the detection zone you have set is too small	• Check zone setting

APPLICATION PLACES

Concise modeling, and the shell increases the IP CODE.

According to customer's need selected.

