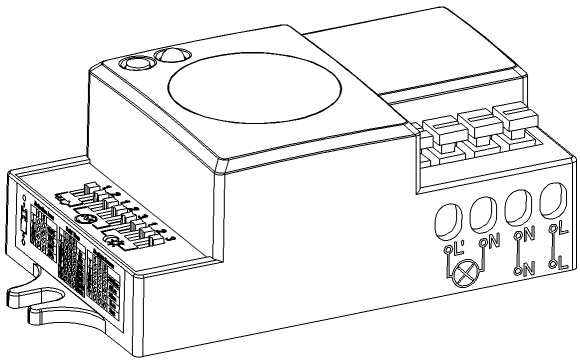
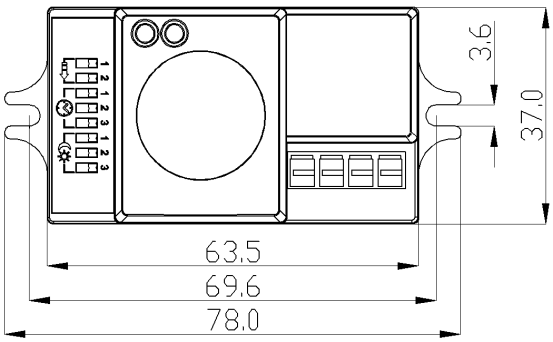
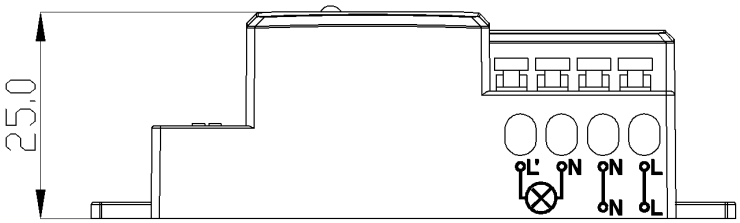
Microwave Sensor

Model: ST701K

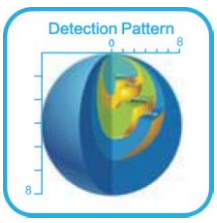






Welcome to use ST701K Microwave Sensor!

The product is a new saving-energy switch; it adopts microwave sensor mould with high-frequency electro-magnetic wave (5.8GHz) and integrated circuit. It gathers automatism, convenience, safety, saving-energy and practicality functions. The wide detection field depends on detectors. It works by receiving human motion. When one enters the detection field, it can start the load at once and identify automatically day and night. Its installation is very convenient and its using is very wide. Detection is possible to go through doors, panes of glass or thin walls.



SPECIFICATION:

Power Sourcing: 220 -240V/AC

Power Frequency: 50/60Hz

Daylight Sensor: 2lux, 5lux, 20lux,50lux, 2000lux (choice)

Transmission Power: <0.2mW

HF System: 5.8GHz CW radar, ISM band

Hold Time: 5s, 30s, 1min, 5min, 10min, 20min, 30min (choice)

Rated Load: 1200W

300W

Detection Range: 360°/180°

Detection Area: 20%, 50%, 75%, 100% (choice)

Detection Distance: wall: 5-15m (adjustable)

ceiling: 1-8m (radius), adjustable

Power Consumption: approx 0.9W

Installing Height: wall: 1.5-3.5m

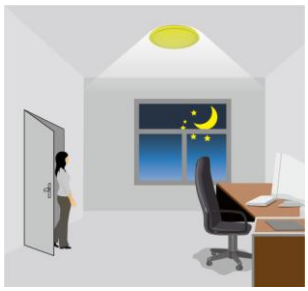
ceiling: 2-8m

Detection Motion Speed: 0.6-1.5m/s

FUNCTION:

- Can identify day and night: It can work in the daytime and at night when it is adjusted to the "●●●" position (LUX). It can work in the ambient light less than 2LUX when it is adjusted to the "○○○" position (LUX). As for the adjustment pattern, please refer to the testing pattern.
- SENS adjustable: It can be adjusted according to using location; low sensitivity with 4m for detection distance; High sensitivity with 16m, it fits for large room.
- Hold time is adjustable. It can be set according to the consumer's desire. The minimum time is 5sec.The maximum is 30min.

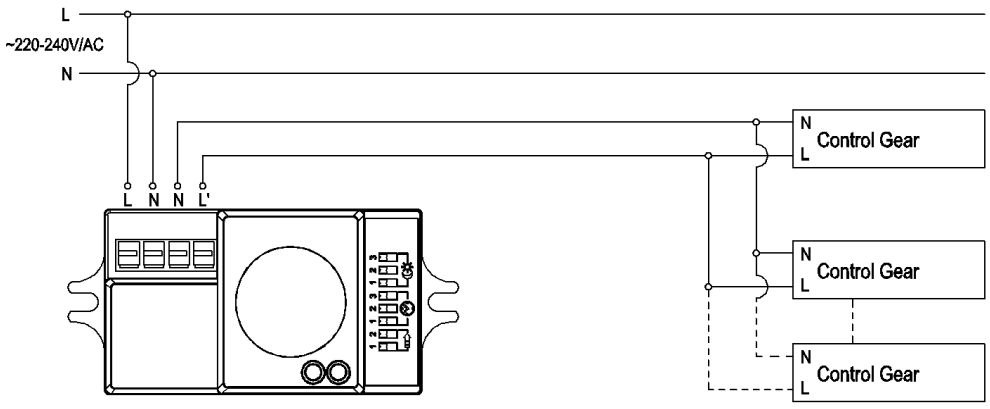
With ambient light more than the setting value, the lamp does not switch on when someone enters the room



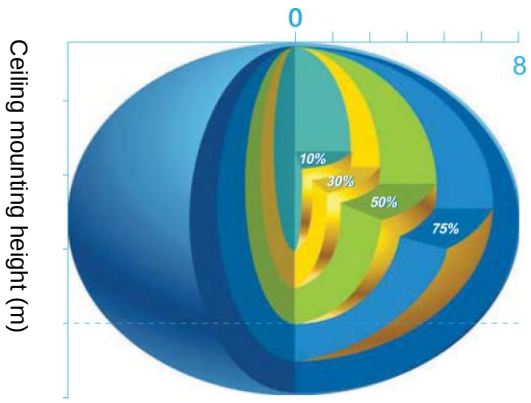
With ambient light less than daylight threshold, the lamp will be on 100% when someone enters the room

After the hold time, the light switches off automatically when no movement is detected

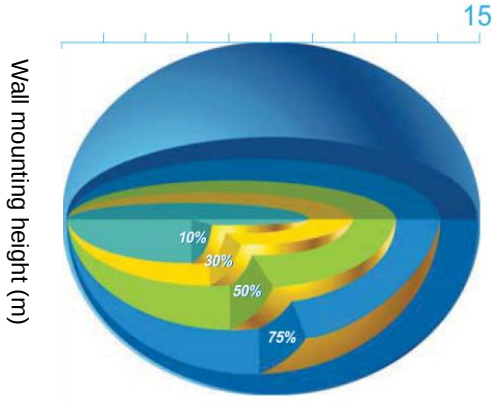
CONNECTION-WIRE DIAGRAM:



DETECTION PATTERN:



Ceiling mounting pattern (m)

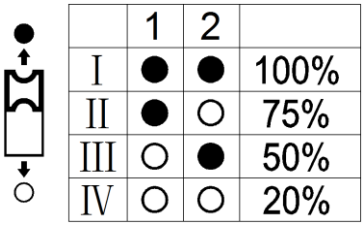


Wall mounting pattern (m)

SETTING:

Detection Area

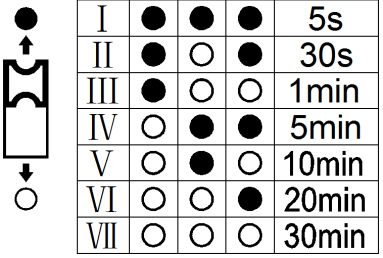
Detection distance can be set with different combi nations of DIP switches to precisely fit for each sp ecific application



	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	20%

Hold Time

Hold time means the time period you would like to keep the lamp on after the person has left the detection distance



	1	2	3	
I	●	●	●	5s
II	●	○	●	30s
III	●	○	○	1min
IV	○	●	●	5min
V	○	●	○	10min
VI	○	○	●	20min
VII	○	○	○	30min

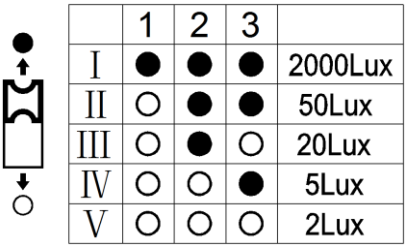
Daylight Sensor

The LUX value can be set on DIP switch, to fit particular application. If movement is detected,

“2000LUX”: the lamp works always, even during daylight.

“5LUX-50LUX”: the lamp works only in twilight.

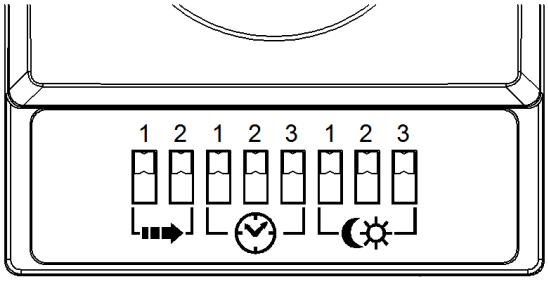
“2LUX”: the lamp works only in darkness

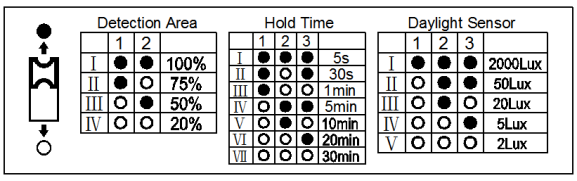


	1	2	3	
I	●	●	●	2000Lux
II	○	●	●	50Lux
III	○	●	○	20Lux
IV	○	○	●	5Lux
V	○	○	○	2Lux

TEST:

- Slide the Detection Area switch: The first knob on “●” position, the second knob on “●” position. Slide the Hold Time switch: The first knob on “●” position, the second knob on “●” position, the third knob on “●” position. Slide the Daylight Sensor switch: The first knob on “●” position, the second knob on “●” position, the third knob on “●” position.





Detection Area

	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	20%

Hold Time

	1	2	3	
I	●	●	●	5s
II	●	○	●	30s
III	●	○	○	1min
IV	○	●	●	5min
V	○	●	○	10min
VI	○	○	●	20min
VII	○	○	○	30min

Daylight Sensor

	1	2	3	
I	●	●	●	2000Lux
II	○	●	●	50Lux
III	○	●	○	20Lux
IV	○	○	●	5Lux
V	○	○	○	2Lux

- When you switch on the power, the light will be on at once, and about 5s later, the light will be off automatically. Then if the light receives induction signal, it can work normally
- When the sensor receives the second induction signals within the first induction, it will restart to time from the moment.
- Slide Daylight Sensor switch, the first knob on "○" position, the second knob on "○" position, the third knob on "○" position. If the ambient light is less than 2LUX, the inductor load could work when it receives induction signal.

Note: when testing in daylight, please slide LUX knob to 2000lux, otherwise the sensor light 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.
- In order to avoid the unexpected damage of product, please add a safe device of current 6A when installing microwave sensor, for example, fuse, safe tube etc.

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 is not 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 if in front of the sensor there shouldn't be obstructive object that affect to receive the signals.
  b. Please check if the signal 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.