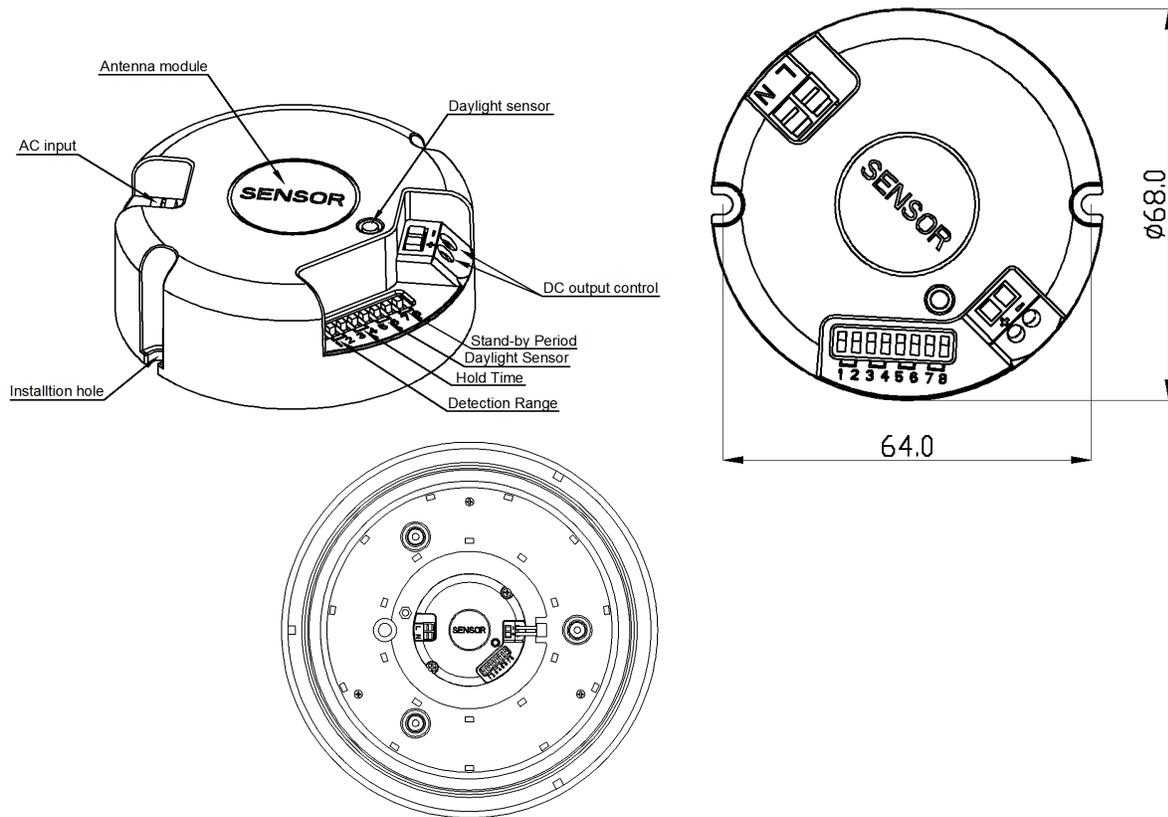


# sensinova<sup>TM</sup>

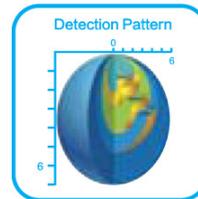
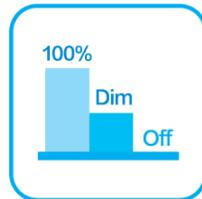
motion on

## SN730A



### Welcome to use SN730A Microwave Sensor & Dimming Driver

This product is an integration of microwave motion sensor, daylight sensor and LED Dimming driver. It supplies a simple energy-saving solution for LED ceiling lights. As all control parts are integrated in a same housing, It is very easy to assemble and save labor cost.



**SPECIFICATION:**

Power Source: 220 -240V/AC

Detection angle:180° /360°

Daylight Sensor: 5lux, 15lux, 50lux,  
2000lux (choice)

Output Voltage: 21-33V/DC

Transmission Power: <0.2mW

Hold Time: 10s, 90s, 3min,  
10min (choice)

Power Consumption: approx 0.9W

Stand-by Period: 0s, 30s, 10min,  
+∞ (choice)

Power Frequency: 50/60Hz

Detection Range: 10%, 50%, 75%, 100% (choice)

Detection Distance: wall: 5-15m (adjustable)  
ceiling: 2-8m (radius), adjustable

Output Current: 300mA

HF System: 5.8GHz CW radar, ISM band

Installing Height: wall: 1.5-3.5m  
ceiling: 2-4m

Detection Motion Speed: 0.6-1.5m/s

Stand-by Dimming Level: 20%

**FUNCTION:**

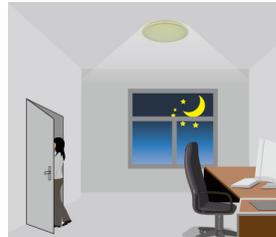
- Can identify day and night: It can work in the daytime and at night when two knobs are on above position (Daylight Sensor). It can work in the ambient light less than 5LUX when two knobs are on below position (Daylight Sensor). As for the adjustment pattern, please refer to the testing pattern.
- Hold time is optional. It can be set according to the consumer's desire. The minimum time is 10sec.The maximum is 10min.
- It offers 3 levels of light: 100 %--> dimmed light (20%optional) -->off; and 2 periods of selectable waiting time, motion hold time and stand-by period; selectable LUX value and choice of detection area.



With ambient light more than daylight threshold, 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

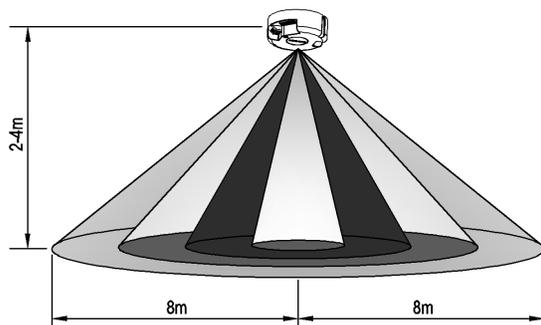


People left, light dims to 20% (optional) stand-by level after hold time

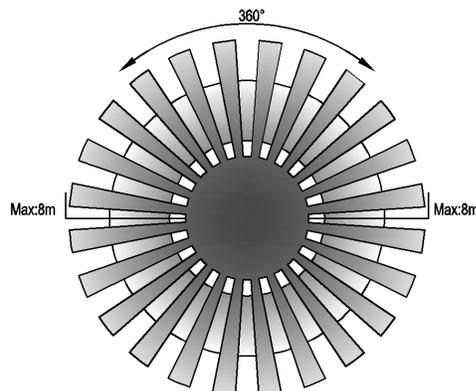


Light switches off automatically after the stand-by period elapsed

**SENSOR INFORMATION:**



Height of installation 2-4m

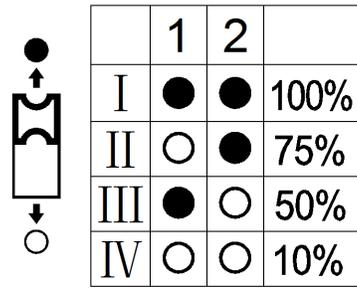


Detection Area: Max. 8m (radius)

**SETTING:**

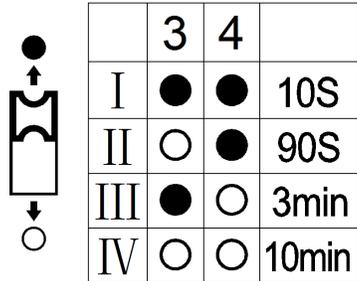
**Detection Range**

Detection distance can be set with different combinations of DIP switches to precisely fit for each specific application



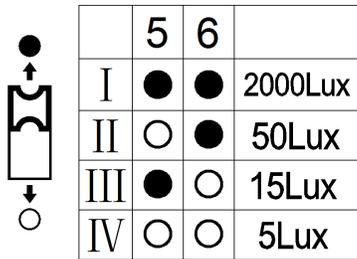
**Hold Time**

Hold Time means the time period you would like to keep the lamp on 100% after the person has left the detection distance



**Daylight Sensor**

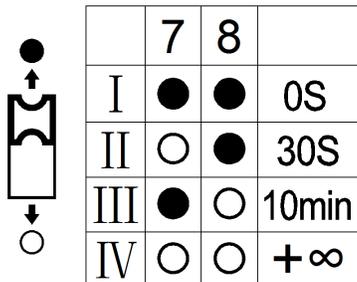
The LUX value can be set on DIP switches in order to fit different ambient light.



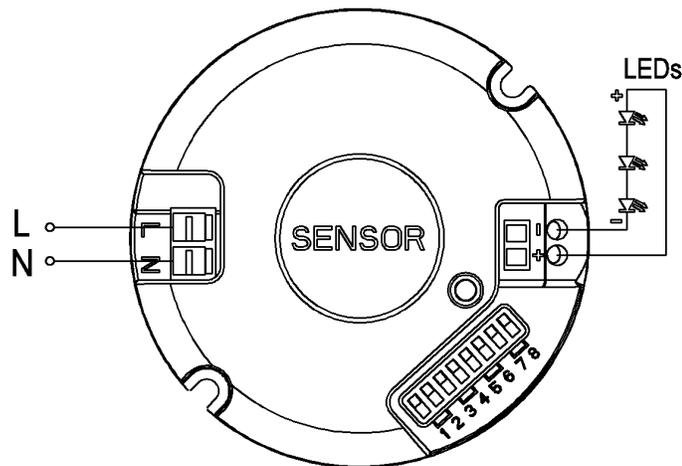
**Stand-by Period**

This time period you would like to keep at the low light output level before it is completely switched off in the long absence person

**Note:** "+∞" means fixture keeps on stand-by dimming level and never switches off.  
 "0s" means no dimming function

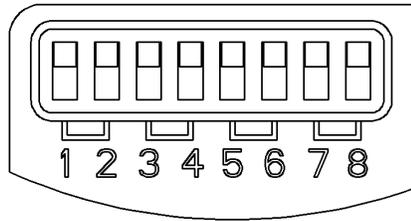


**CONNECTION-WIRE DIAGRAM**



**TEST:**

- Slide the all knobs on "above" position. When you switch on the power, the light will be on at once, and 5 sec later without induction signal the light will turn off slowly. Then if the sensor receives induction signal, it can work normally
- Adjust the stand-by period to "30s", when the sensor receives induction signal, the light will be 100% on; 5sec later, the light dims slowly to 20% on for 30sec and then turn off. If the sensor receives second induction signal within the stand-by period, the light will be 100% on.



	Detection Range		Hold Time		Daylight Sensor		Stand-by Period	
I ● ●	1	2	I ● ●	3 4	I ● ●	5 6	I ● ●	7 8
II ○ ●		● 100%	II ○ ●	10S	II ○ ●	2000Lux	II ○ ●	0S
III ● ○		75%	III ● ○	90S	III ● ○	50Lux	III ● ○	30S
IV ○ ●		50%	IV ○ ●	3min	IV ○ ●	15Lux	IV ○ ●	10min
		10%		10min		5Lux		+∞

**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.