
SL620 Miniature Long Distance Human Sensor Module

Product overview:

SL620 human body induction module is an automatic control product based on infrared technology. It has high sensitivity, high reliability and ultra-low voltage working mode. It is widely used in all kinds of automatic induction equipment, especially in dry battery-powered automatic control products.

Product characteristics:

Fully automatic induction: when people enter the induction range, they output high level, while when people leave the induction range, they automatically delay to turn off high level and output low level.

Photosensitive control (optional, not set at the time of leaving the factory): Photosensitive control can be set, not feeling during the day or when the light is strong.

Temperature compensation (optional, not set at the time of leaving the factory): In summer when the ambient temperature rises to 30-32 C, the detection distance becomes slightly shorter, temperature compensation can be used as a performance compensation.

Two trigger modes: (repeatable trigger mode when leaving factory)

A. Non-repeatable triggering mode: that is, after the induction output of high level, the output will automatically change from high level to low level once the delay period ends.

B. Repeatable triggering mode: after the induction output is high, if the human body is active in its induction range during the delay period, its output will remain high until the human leaves, and then the high level will be delayed to low level (the induction module automatically delays a delay time after each human activity is detected by the induction module). The time of the last activity is the starting point of the delay time.

With induction blockade time (default: 2.5S blockade time): after each induction output (high level to low level), the induction module can set a blockade time period, during which the inductor does not accept any induction signal. This function can realize the interval work of "induction output time" and "blocking time", and can be applied to interval detection products. At the same time, this function can effectively suppress various interference during load switching process. (This time can be set at zero seconds - tens of seconds).

Wide operating voltage range: Extremely wide operating voltage DC1.8V-28V.

Low power consumption: When DC5V, the static current is less than 50 microamperes, which is especially suitable for automatic control products powered by dry batteries.

Output high-level signal: It can be easily docked with various circuits.

Distance of induction: up to 20 meters

Technical parameters:

Working Voltage Range DC1.8-28V

When the static current is less than 50uA, 5V

Level Output High 3V/Low 0V

Trigger mode repeated trigger (default)

Delay time default 10S (5-200S adjustable) can produce zero seconds-10 minutes

Blockade time default 2.5S, can be produced in a range of zero seconds - tens of seconds

The external dimension of PCB is 24mm*24mm (32.7mm*24mm), which can be tailored flexibly.

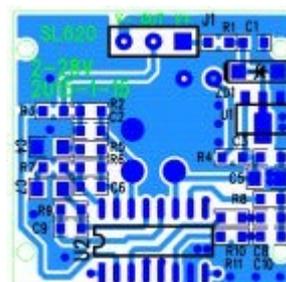
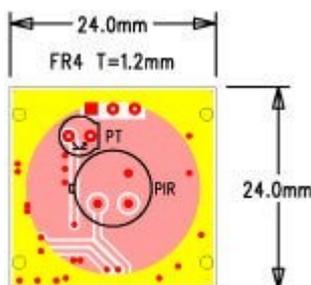
Induction Angle < 120 Degree Cone Angle (Visual Lens Performance)

Induction distance up to 20 meters (visual lens performance)

Working temperature - 20-+85 degrees

Induction Lens Size Diameter: 23mm (Default)

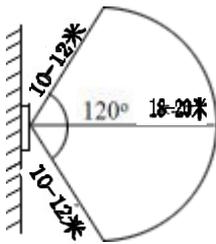
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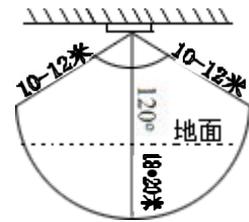
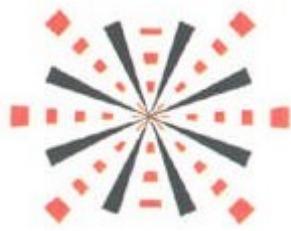
Pictures:



Sensor Distance:

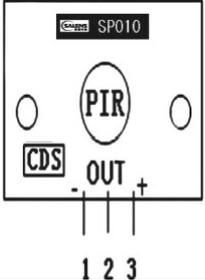
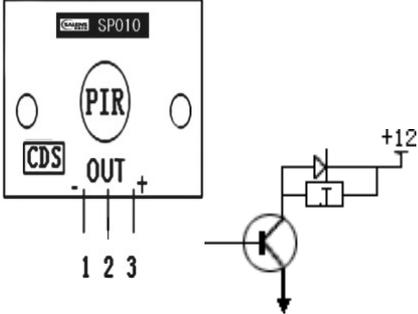
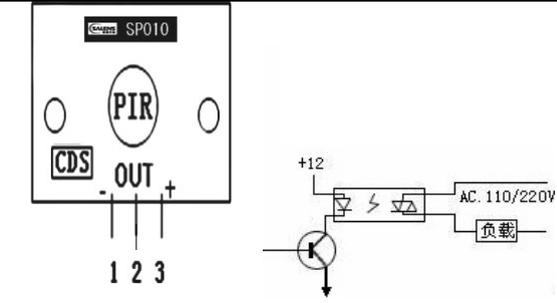


(Wall installation Icon)



(Ceiling mounting diagram)

Interfaces:

<p>一、 External schematic diagram of module</p>		<ol style="list-style-type: none"> 1. power supply negative pole 2. OUT signal output 3. power positive electrode
<p>二、 DC Load Circuit Diagram</p>		
<p>三、 AC Load Circuit Diagram</p>		

Use Notes:

The induction module has about 30 seconds of initialization time after power-on. During this period, the module will output 0-3 times at intervals and enter the normal standby state after one minute.

When installing, the lens on the surface of the module should be avoided as far as possible, so as to avoid introducing interference.

The signal produces misoperation; the use of the environment as far as possible to avoid the flow of wind, the wind will also interfere with the sensor.

Attention should also be paid to the direction angle when installing, otherwise the induction distance will be affected. When installed, the square window on the module probe is as parallel as possible to the direction in which the human body moves most, so that the induction effect can achieve better results.

In the course of use, when the ambient temperature rises close to the surface temperature of human body (30-32 C), the detection distance

It will be slightly shorter, which is the result of a temperature factor.