(/user/mh-et-live)**MH-ET LIVE (/user/mh-et-live)** ADMINISTRATORS (/groups/administrators) 9 months ago (/post/92) ✎

Purchase Link: Aliexpress:MH-ET LIVE Official Store (https://www.aliexpress.com/store/product/MH-SR602-pir-motion-sensor-motion-detector-module-SR602-MINI-SR501-Infrared-PIR-kit-sensory-switch/2348158_32932829076.html?spm=a2g0x.12010608.0.0.cbfa76e8xFxrXj)

- **Working parameters:**
  Pyroelectric human body infrared sensor module, model: SR-602
  Sensing distance: up to 5 meters; recommended 0-3.5M.
  Output: high level, H=3.3V, L=0V
  Power supply DC: 3.3V-15V
  Quiescent current: 20uA

- **Features and uses:**
  This module has high sensitivity, fast response, small static power consumption, small size, easy to install, and is installed.
  The lens, the pin header has been soldered, and the power supply is provided without debugging. Can be used for body sensor lights, alarms, security,
  Access control on-demand imaging, automatic equipment for agriculture, forestry and mining.

- **Key points:**

1. The high level time of the output of this product is adjustable, 2.5 seconds to 1 hour, the output time set at the factory.
   It is 2.5 seconds, and you can change one chip resistor if you need to change it. Please read the resistance value corresponding to the typical delay time.
   Refer to the relevant form below.
2. Blocking time, 2 seconds, not adjustable.
3. The factory is defined as repeatable trigger and cannot be changed.
4. The supply voltage of this module is 3.3V to 15V, and the limit voltage is 2.8V to 18V.
5. Module output timing is: output high level for 2 seconds after power-on, then go low, enter standby status. If the delay time is changed, the time when the module outputs a high level after power-on will increase accordingly, which can be understood as
   The startup time after entering the normal working state after the electric power will increase.
6. After installing the photosensitive element, it does not work during the day, work at night, does not contain photosensitive components, and works all day (There are no photodiodes on the module,please purchase separately if needed. Recommended: ordinary F3 photodiode)
   It is considered that there is no photosensitive element installed.
7. This module is very sensitive, pay attention to the installation position, try to avoid the heat source radiation source (air outlet / direct sunlight)
8. The sensitivity of this module is adjustable, and you need to change a chip resistor. Please read the relevant table below for details.
   grid.

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9. When soldering with 220V ordinary soldering iron, it is necessary to unplug the power supply before welding. It is recommended to use
24V low voltage soldering iron, such as domestic white light 936.
10. If you follow the MCU and connect the lamp, please read the reference circuit diagram below.

- **Dimensions：**

A: lens diameter 10 mm;
B: the lens height is 10 mm;
C: the thickness of the circuit board is 1.6 mm;
D: the overall height of the pin header is 8mm;
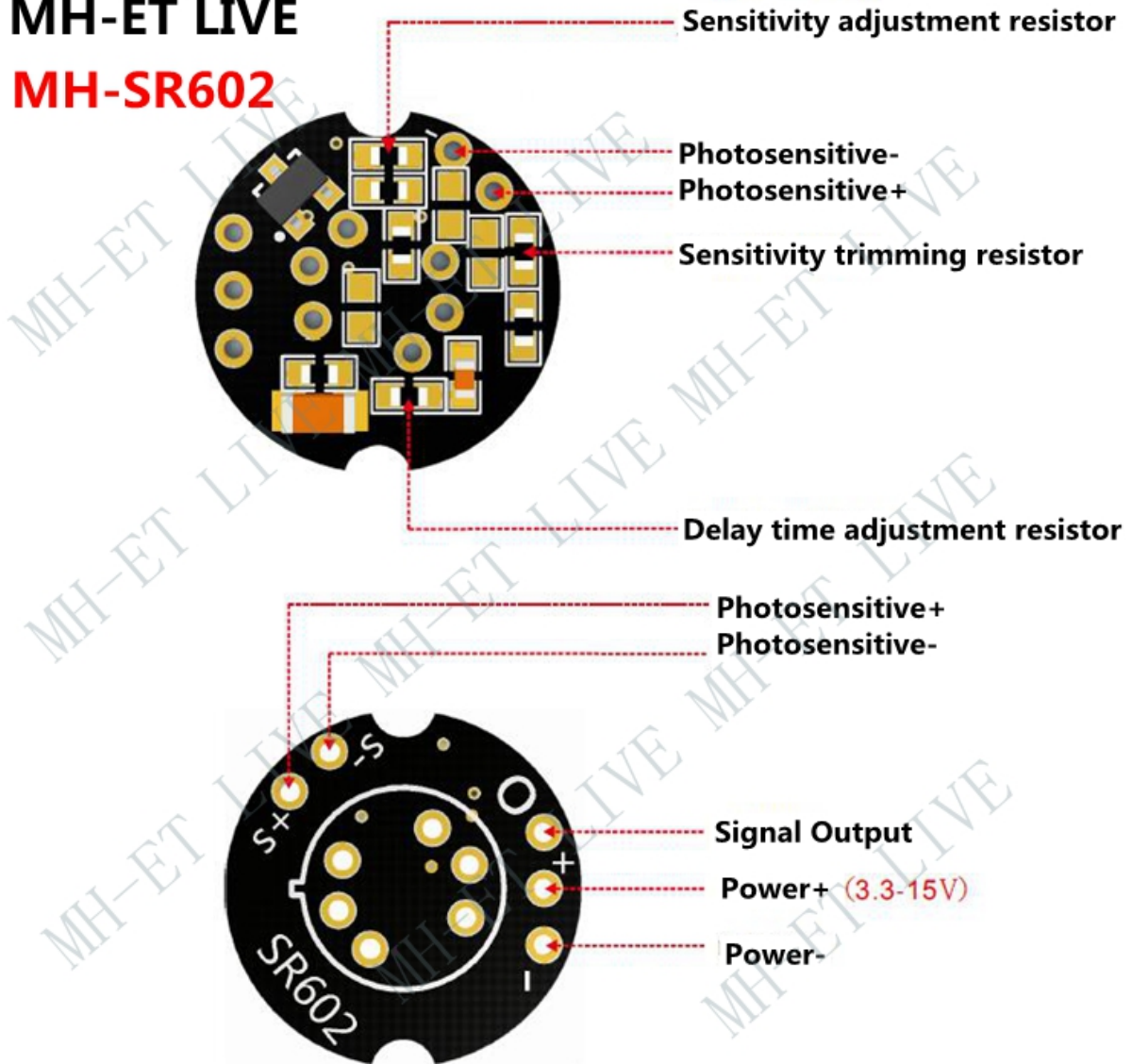E: the height of the pin plastic step is 2mm;

F: photosensitive element pad pitch 2.54mm;
G: the pin spacing of the power input and signal output is 2.54mm;
R: the board has a radius of 8 mm;
R1: the positioning groove radius is 1.5mm;
R2: symmetric positioning groove spacing 13.5mm;

(https://i.imgur.com/As0SvU1.png)

- **Special description：**

MH-ET LIVE
MH-SR602

Sensitivity adjustment resistor

Photosensitive-
Photosensitive+

Sensitivity trimming resistor

Delay time adjustment resistor

Photosensitive+
Photosensitive-

S-
S+

SR602

Signal Output

Power+ (3.3-15V)

Power-

(https://i.imgur.com/sIrqJaQ.png)

- **Parameter change：**

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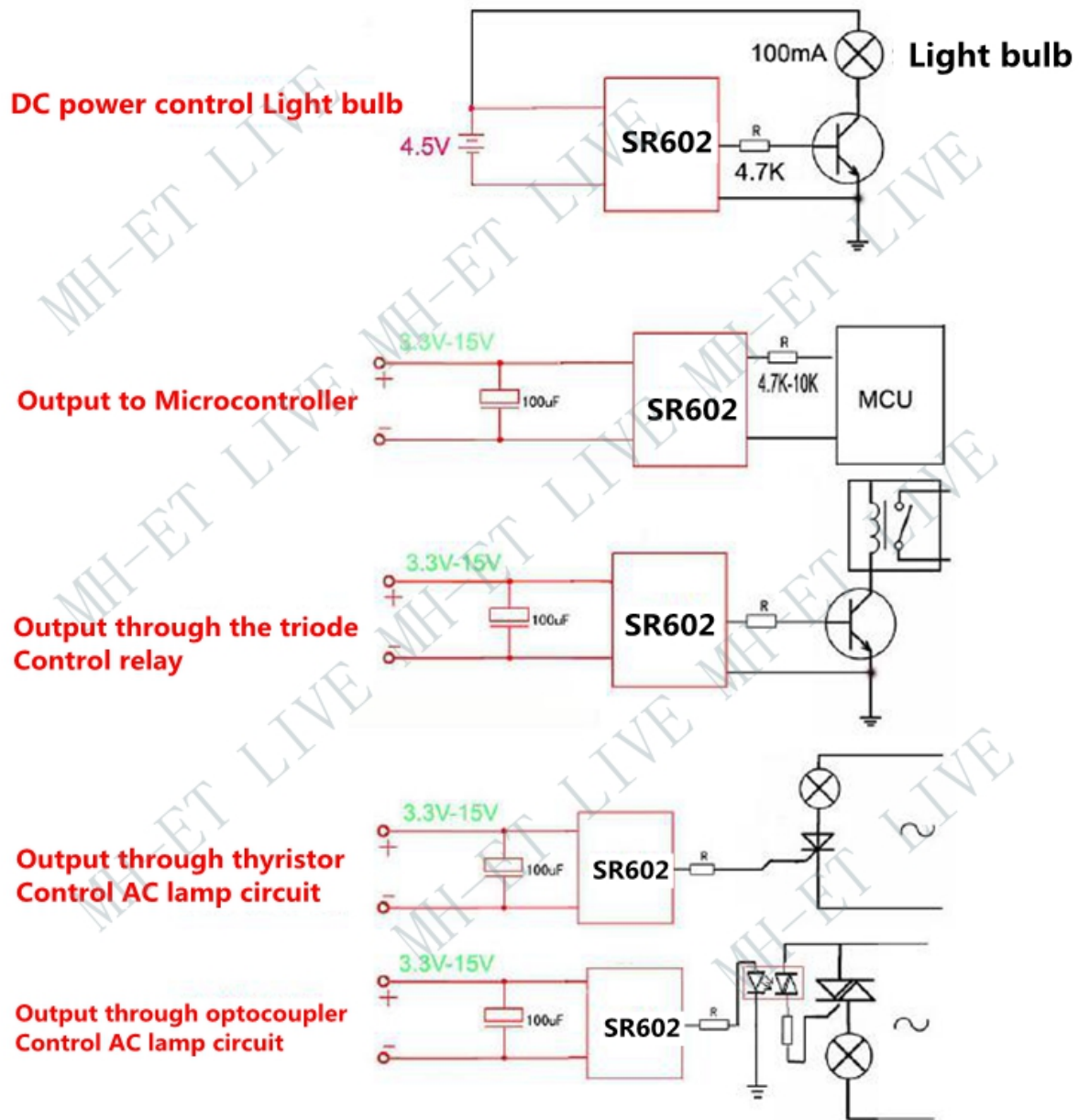| Delay adjustment RL (Ω) (1%)	Delay time (S)
0　　Default	2. 5
51k	6
91k	8
120k	10
180k	17
220k	32
270k	47. 5
330k	62. 5
360k	122
430k	243
510k	360
560k	480
680k	950
750k	1865
910k	2790
1M	3715

(https://i.imgur.com/1azQyLG.png)
The default delay of this module is 2.5s. The above table is the data measured by the laboratory.
The specified error is only a reference for the debug time range. If you need to change the delay time, please combine,In the actual use case, select the appropriate parameters after debugging the specific circuit.

- **Application circuit：**

DC power control Light bulb

100mA — Light bulb

4.5V

SR602

R
4.7K

Output to Microcontroller

3.3V-15V

100uF

SR602

R
4.7K-10K

MCU

Output through the triode Control relay

3.3V-15V

100uF

SR602

R

Output through thyristor Control AC lamp circuit

3.3V-15V

100uF

SR602

R

Output through optocoupler Control AC lamp circuit

3.3V-15V

100uF

SR602

R

(https://i.imgur.com/rCn0GeJ.png)

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