



# LC 5A Over-current protection Sensor module

## LC-Sensor-Relay-12V

**AC current detection Sensor module 12V Relay protection module 5A Over-current protection Switch output**

**Shenzhen Aiersai Technology Co., Ltd. 2016-12**

### 1. Overview

LC 5A Over-current protection Sensor module uses current transformer to collect the AC signal to achieve the relay over-current signal output within 0-5A. Relay pulls when over current is measured, relay released when no or low current. Users can use the relay COM, NC, NO three ports to control the external circuit on and off, in order to achieve over current protection.

### 2. The function and characteristics

- 1, Operating voltage: DC12V;
- 2, Operating current: <20mA;
- 3, Operating frequency range: 20Hz ~ 400Hz
- 4, Output mode: switch signal output;
- 5, Maximum detection wire diameter: 5.2mm;
- 6, Mounting hole: hole diameter is 3mm, hole distance is 52.5mm;
- 7, Operating environment: -40 °C ~ +85 °C;
- 8, Current detection resolution can change the parameter of resistance parameters;
- 9, Output over-current switching signal output;
- 10, Over-current signal setting critical point adjustable, the current detection range AC0.3A-5A;

### 3. Introduced the hardware and instructions

Board size: 38 \* 44mm

The board function description:

The interface description:

VCC: Operating voltage positive;

GND :Operating voltage negative;

NO: Normally open, the relay pulls before the NO and COM disconnect, short-circuit after the suction;

COM: common, relay common interface;

NC: Normally closed, the relay before the NC and COM short-circuit, pull off after;

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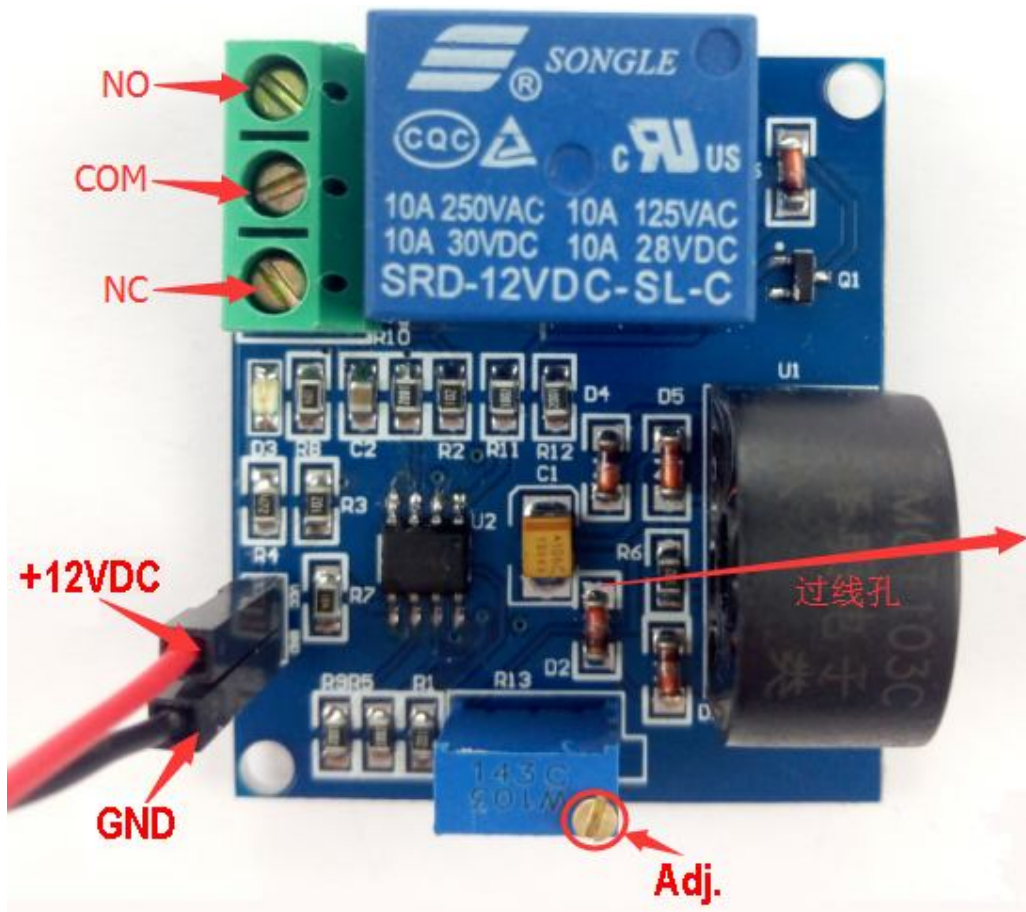
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### Using instructions:

By setting the potentiometer to set the over current protection point, the clockwise adjustment reduces the detection current.

As bellows:

- 1, Place the current sensing wire through the current transformer, connect VCC and GND to DC12V power supply;
- 2, Adjust the potentiometer, when you hear the sound of the relay pull (can be measured with a multimeter COM and NO whether was turned on, if connected to the relay means activated), then reduce or cut off the current flowing that through the tested wire, if the relay release at this time that over-current protection point has been identified (available to multimeter COM and NC measurement whether is connected, if connected to the relay means been released);
- 3, When reduce or cut off the current flowing through the wire, the relay is not released, will still need to continue to adjust the potentiometer to find the over-current protection point.

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