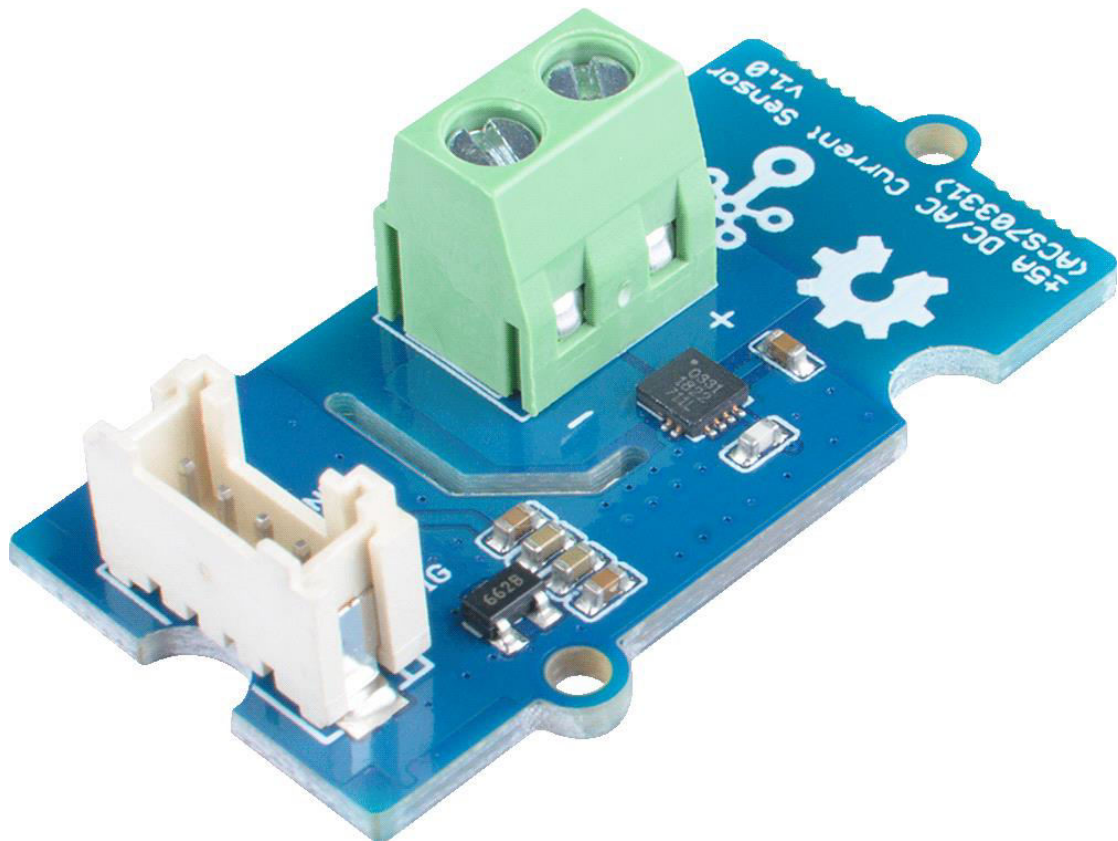




**seeed** studio  
The IoT Hardware Enabler



The Grove -  $\pm 5A$  DC/AC Current Sensor (ACS70331) is a high precision DC/AC current sensor based on ACS70331. The ACS70331EESATR-005B3 is Allegro's high sensitivity, current sensor IC for  $<5$  A current sensing applications. It incorporates giant magneto-resistive (GMR) technology that is 25 times more sensitive than traditional Hall-effect sensors to sense the magnetic field generated by the current flowing through the low resistance, integrated primary conductor.

The Grove -  $\pm 5A$  DC/AC Current Sensor (ACS70331) can measure both DC current and AC current up to 5A with a base sensitivity of 200mV/A.

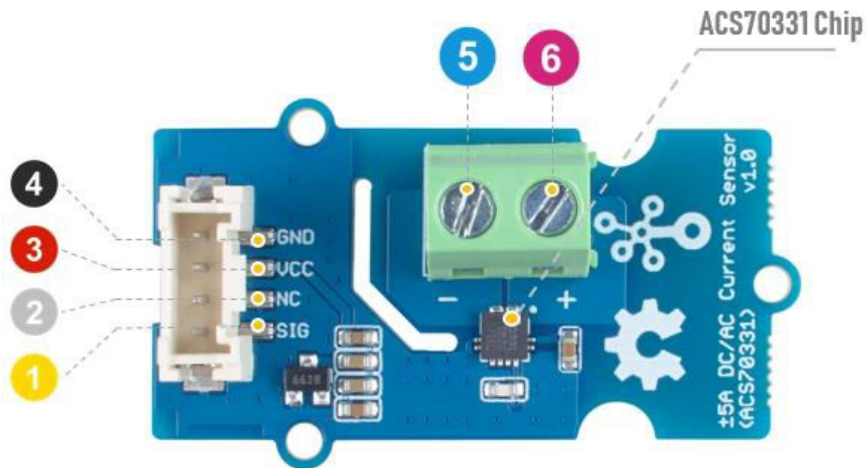
### **Danger**

The human body is forbidden to touch the module during the test, otherwise there is danger of electric shock.

## Features

- 1 MHz bandwidth with response time <550 ns
- Low noise: 8 mA(rms) at 1 MHz
- 1.1 m $\Omega$  primary conductor resistance results in low power loss
- High DC PSRR enables use with low accuracy power supplies or batteries (3 to 4.5 V operation)

## Pinout



- ④ GND: connect this module to the system GND
- ③ VCC: you can use 5V or 3.3V for this module
- ② NC: not connected
- ① SIG: analog output, output the current value to the MCU
- ⑤ Low side of current sensor
- ⑥ High side of current sensor

## ECCN/HTS

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