

Grove - $\pm 5A$ DC/AC Current Sensor (ACS70331)

SKU 101020615

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 the DC current and the AC current up to 5A with a base sensitivity of 200mV/A.

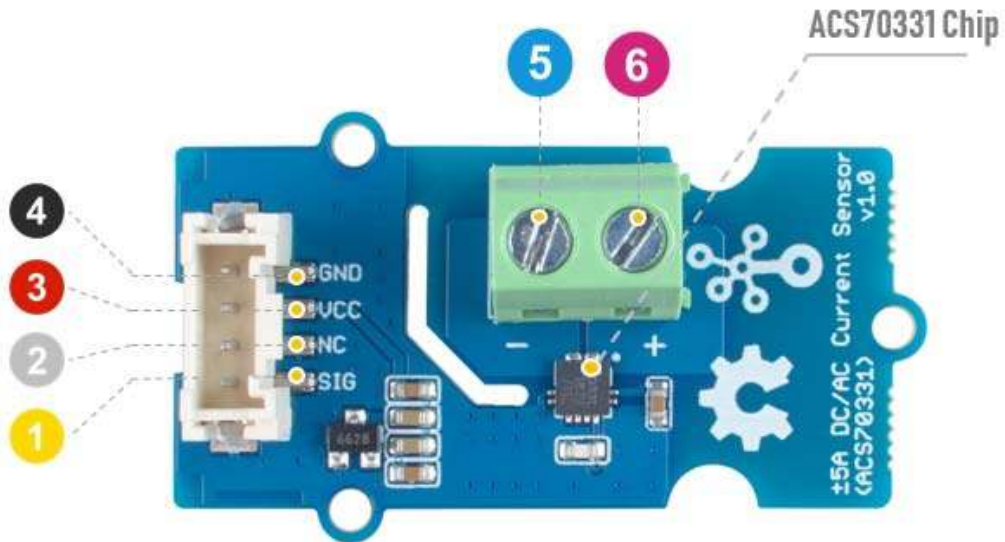
Danger

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 mΩ 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

ECCN	EAR99
HSCODE	9030900090
UPC	

