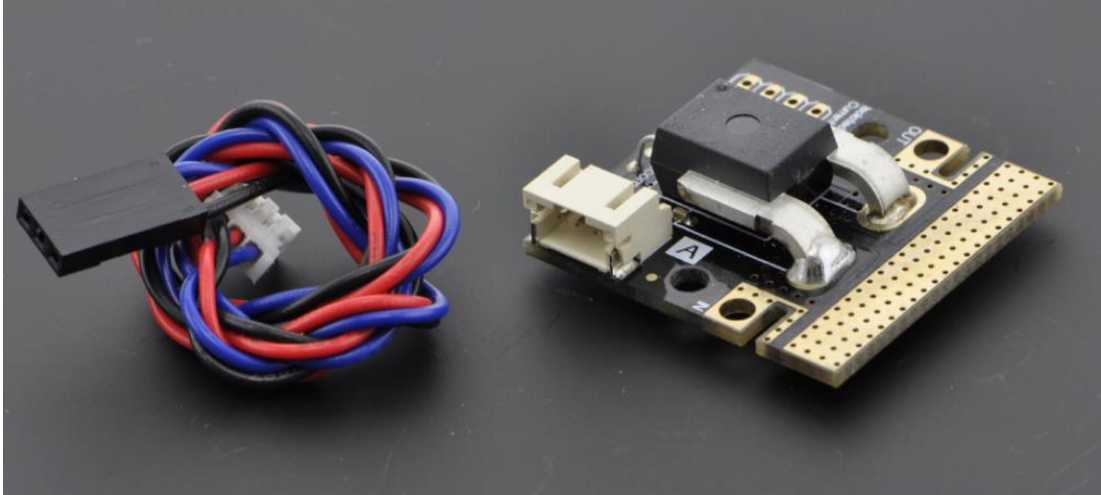


Gravity: Analog 50A Current Sensor (AC/DC)

This is a breakout board for the fully integrated Hall Effect based linear ACS758 current sensor. The sensor gives precise current measurement for both AC and DC signals. The thickness of the copper conductor allows survival of the device at high over current conditions. The ACS758 outputs an analog voltage output signal that varies linearly with detected current. This current sensor enables you to monitor currents in your project every second for energy saving or circuit protection purposes.



Specification

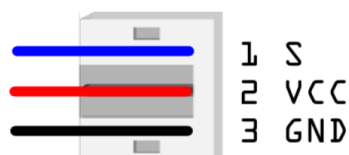
- Operating Voltage(analog): 5V
- Peak Measuring Voltage: 3000V(AC), 500V(DC)
- Current Measuring Rang: -50~50A
- Sensitivity: 40 mV/A
- Operating Temperature: -40~150°C
- Dimension: 34x34mm

PinOut

old version



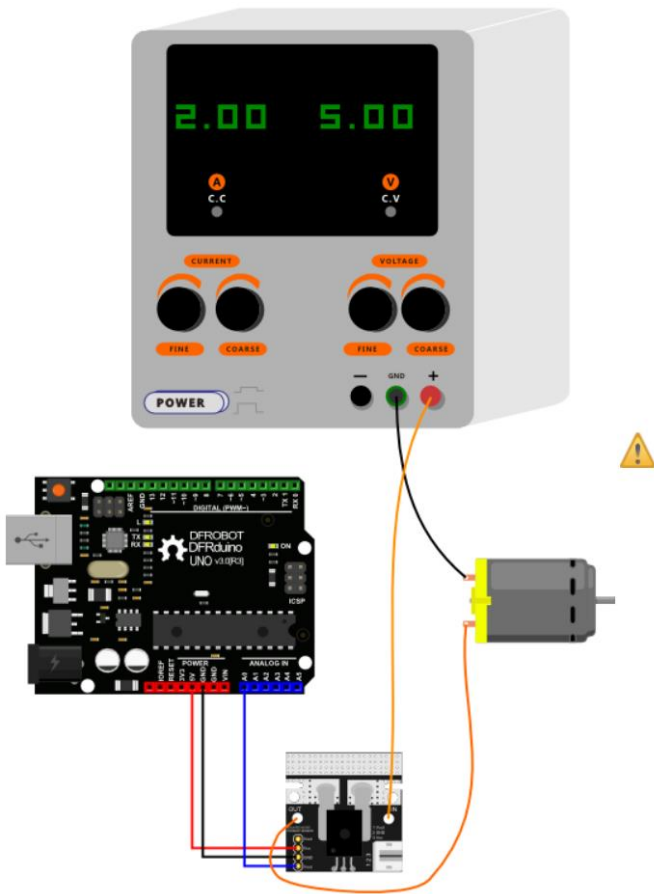
new version



Tutorial

This tutorial is going to test DC and AC current. The result of AC current is its effective value, i.e. the same as an Ammeter reading.

Connection Diagram



DANGER: This diagram can also be applied to AC current connection. But notice that the module should be cascaded on one electric wire (+/-). But if you connect it to two electric wires in parallel, you will short the circuit, which is dangerous.