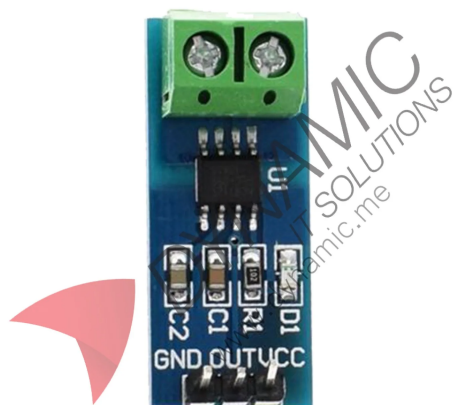


# Current Sensor ACS712



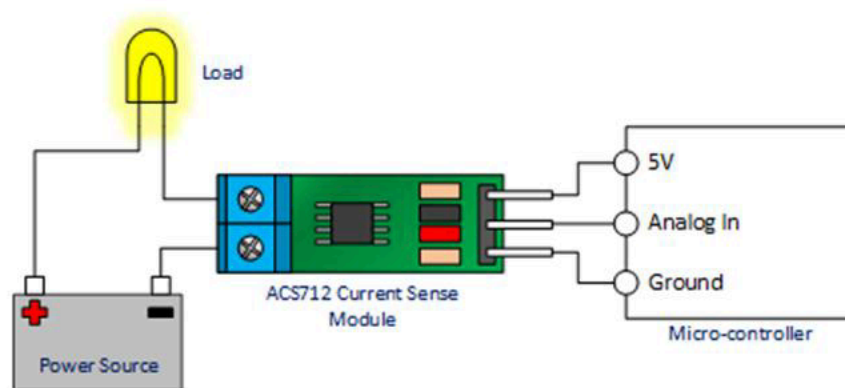
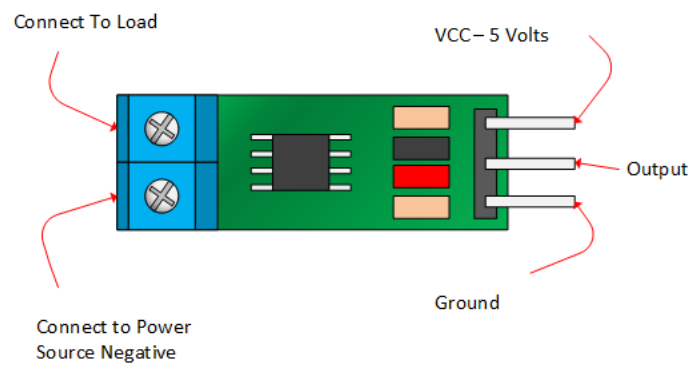
## Features:

The ACS712 current sensor module provides precise analog voltage output proportional to the AC or DC current flowing through its low-resistance copper conduction path. Utilizing a linear Hall-effect circuit, it offers reliable and accurate current sensing with low power loss. Designed for use with microcontroller ADC inputs, it supports easy integration into applications such as over-current protection, power monitoring, and motor control.

Specifications	
Operating Voltage	4.5 V to 5.5 V DC
Measurement Range	−30 A to +30 A
Sensitivity	~66 mV/A (for 30A version)
Output Type	Analog voltage proportional to input current
Internal Conductor Resistance	~1.2 mΩ
Output Rise Time	5 μs (typical)
Output Error	±1.5% at 25 °C
Isolation Voltage	2.1 kV RMS (between sensing path and signal pins)
Temperature Stability	Low drift, factory-trimmed offset
Dimensions	approx. 31 mm × 13 mm × 13.5 mm
Weight	~5 g

## Pinouts:

Pin Name	Type	Description
<b>VCC</b>	Power Input	Module supply voltage (typically 5V DC)
<b>GND</b>	Power Ground	Common ground
<b>OUT</b>	Output	Analog voltage output proportional to sensed current
<b>IP+</b>	Current Input	High-side current input terminal (connect to power source)
<b>IP-</b>	Current Output	Low-side current output terminal (connect to load)



### Product Pictures:

