50A Hall Current Sensor Module Linear Analog AC DC Current Sensor ACS758LCB-050B High Accuracy for RC Model DIY Arduino
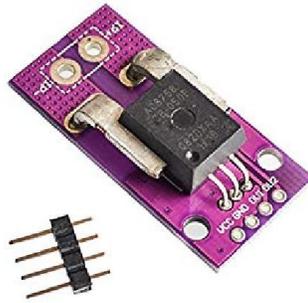
Pin define:

IP+: Terminal for current being sampled

IP-: Terminal for current being sampled

VCC: Device power supply terminal, 3V-5.5V input

GND: Signal ground terminal

OU1: Analog output signal from hall sensor VIOUT pin through an RC filter

OU2: Analog output signal from hall sensor VIOUT pin through operational amplifiers

Features:

1.Industry-leading noise performance through proprietary amplifier and filter design techniques

2.Integrated shield greatly reduces capacitive coupling from current conductor to die due to high dV/dt signals, and prevents offset drift in high-side, high voltage applications

3.Total output error improvement through gain and offset trim over temperature

4.Small package size, with easy mounting capability

5.Monolithic Hall IC for high reliability

6.Ultra-low power loss: 100 μΩ internal conductor resistance

7.Galvanic isolation allows use in economical, high-side current sensing in high voltage systems

8.3.0 to 5.5 V, single supply operation

9.120 KHz typical bandwidth

10.3 us output rise time in response to step input current

11.Output voltage proportional to AC or DC currents

12.Factory-trimmed for accuracy

13.Extremely stable output offset voltage

14.Nearly zero magnetic hysteresis