Chipsmall

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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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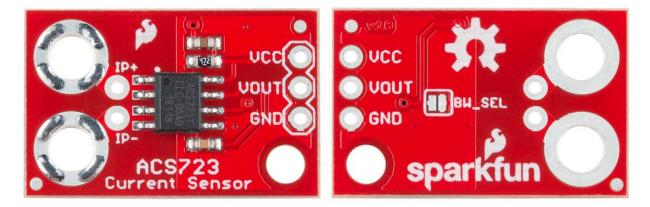# SparkFun Current Sensor Breakout - ACS723

SEN-13679 ROHS

The SparkFun Current Sensor Breakout is a high accuracy board that utilizes the ACS723 for moderate AC and DC current sensing applications. The ACS723 sensor uses a Hall effect sensor to output a voltage relative to the current flowing through the IP+ and IP- pins on the board. The advantage of using a Hall effect sensor, specifically, is that the circuit being sensed and the circuit reading the sensor are electrically isolated meaning that, although your Arduino is running on 5V, the sensed circuit can be operating at higher DC or AC voltages!

The SparkFun Current Sensor Breakout measures both DC and AC currents all the way up to 5A, has full electrical isolation of measured and sensed circuits, and has a base sensitivity of 400mV/A. Although the analog output is adjustable to 80kHz, the bandwidth on the ACS723 Sensor Breakout width filter has been set to 20kHz to reduce noise when using at high gains. The full 80KHz bandwidth that the sensor is capable of can be recovered by closing the JP1 (Bandwidth Select) jumper on the back of the board.

Note: Although the chip itself is rated for up to 2.4kV (RMS) of isolation, the board has not been designed for such high voltage applications.