

# KEYES 30A Current Sensor ACS712ELC-30A



## DESCRIPTION:

One of a fundamental requirement in a wide variety of applications including over-current protection circuits, battery chargers, switching mode power supplies, digital watt meters, and programmable current sources is Sensing and controlling current flow. The simplest techniques of sensing current is to place a small value resistance (also known as Shunt resistor) in between the load and the ground and measure the voltage drop across it, which in fact, is proportional to the current flowing through it.

The ACS712 device is provided in a small package, and consists of a precise, low-offset, linear Hall sensor circuit with a copper conduction path located near the surface of the die. When current is applied through the copper conductor, a magnetic field is generated which is sensed by the built-in Hall element. The strength of the magnetic field is proportional to the magnitude of the current through the conduction path, providing a linear relationship between the output Hall voltage and input conduction current.

## **SPECIFICATIONS:**

- the module can measure positive and negative 30 amps, analog output 66 mV / A
- when no current is detected by the output voltage is  $VCC / 2$
- PCB board size: 31 (mm) x13 (mm);
- Note: ACS712 Hall detection is based on the Hall detection, try to avoid The magnetic field in case of the impact of this!

## **PIN CONFIGURATION:**

