Hall-current sensor "CSLA2CD"

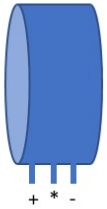
Pins from left to right

+ Positive V_d supply

* measurement pin

- GND

Closed plastic
With text



Open plastic
Magnet visible

Measurement should be performed between measurement pin * and GND –

Example

If the sensor is supplied with 8 volts, when no current is measured by the sensor, it simply divides it's supply voltage by 2. The voltage measured will then be 8/2 = 4 V.

For every A that the sensor measures it will output 0,033 V.

The conversion formula will the be as follows:

Measured $A = \frac{V_{Sensor} - 2\ V}{0.033\ V}$

So if the Sensor voltage is 5 V the amps will be 30,30 A in the wire through the sensor.

Measured A: $\frac{5\ V - 4\ V}{0.033\ V} = 30{,}30\ A$

Source: http://www.sciencesshareware.com/how-to-measure-AC-DC-current-with-a-hall-effect-clamp-.htm