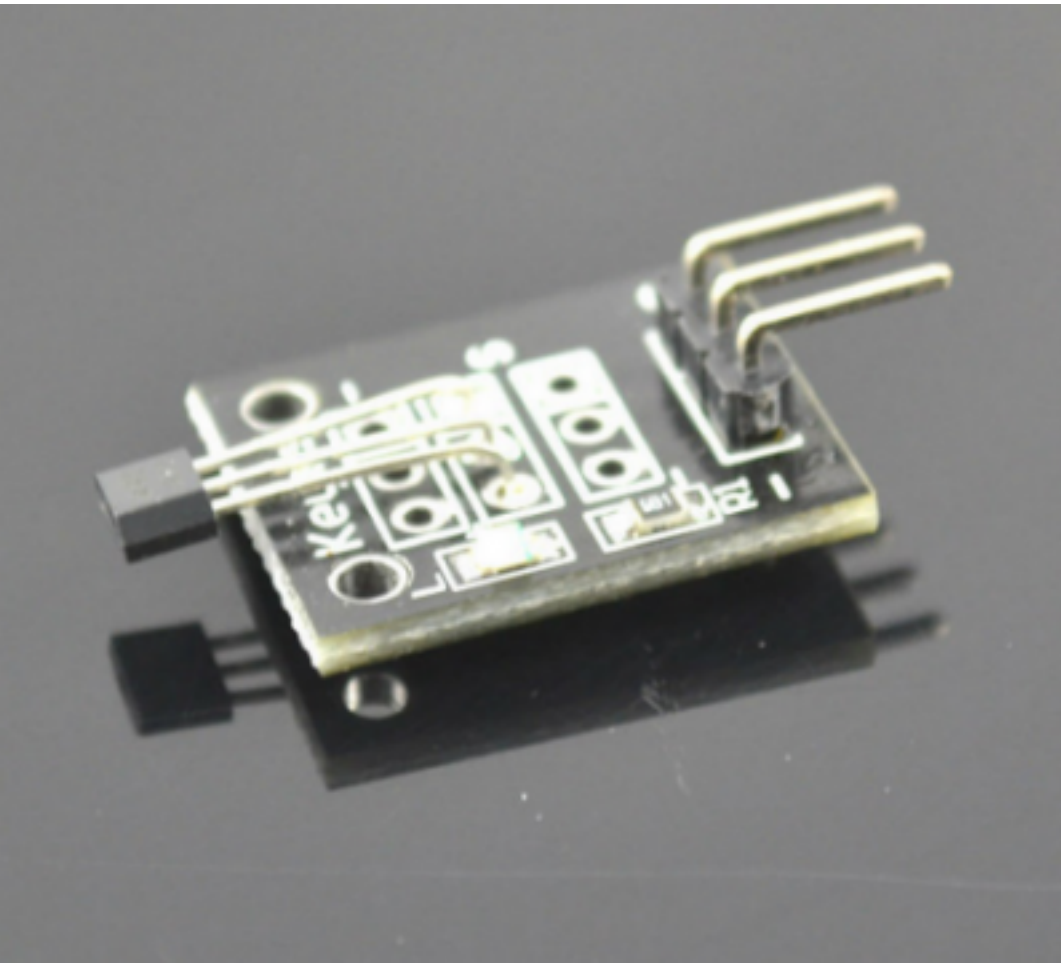# Arduino KY-003 Hall magnetic sensor module

From

Hall magnetic sensor module

This sensor measure a magnetic field. If this is presence it wil put the signal line to high. In this example the led on the arduino (pin 13) will be turned on when signal of sensor is high. Also on the module itself is a led that will be on when signal is high.

Connecting to the Arduino

- Pin - = GND, connect to GND of the Arduino
- Pin (middel pin) +5 v, connect to Arduino +5
- Pin S signal, connect to Arduino pin 10

Example code

```
int Led = 13 ; // define LED Interface
int SENSOR = 10 ; // define the Hall magnetic sensor interface
int val ; // define numeric variables val
void setup ()
{
```

```
  pinMode (Led, OUTPUT) ; // define LED as output interface
  pinMode (SENSOR, INPUT) ; // define the Hall magnetic sensor output interface
}
void loop ()
{
  val = digitalRead (SENSOR) ; // read digital interface is assigned a value of 3 val
  if (val == HIGH) // When the shock sensor detects a signal, LED lights
  {
    digitalWrite (Led, HIGH);
  }
  {
    digitalWrite (Led, LOW);
  }
}
```

- This page was last modified on 17 August 2014, at 17:08.