

Hall Effect Magnetic Sensor

ARD2-2203

- Detect magnetic fields
- Digital switch output (0 & 1)

Description

This Hall Effect Magnetic sensor detects magnetic fields. It can be used to build a simple circuit that flashes an LED when a magnet is detected.

Specifications

Operating Voltage	4.5V - 48V
Output	Schmitt Trigger (Digital) Active Low
Activation Threshold	30 Gauss
Deactivation Threshold	10 Gauss
Board Colour	Black
Material	PCB
Dimensions	20mm x 15mm x 3mm (LxWxH)

Pinout

Module	Arduino	Function
-	GND	Ground
Middle	5V	Power
S	3	Output Signal

Test Code

```
int Led = 13 ;// define LED Interface
int SENSOR = 3 ;// 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);
  }
  else {
    digitalWrite (Led, LOW);
  }
}
```

