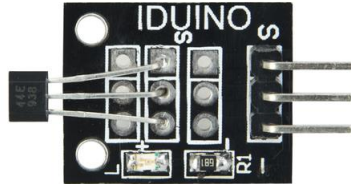


Class Hall Magnetic Sensor(SE054)



1 Introduction

This module is Digital hall sensor module, it can output a digital voltage at the signal pin of this module. Just like a magnetic switch, is different from analogy hall magnetic sensor.

Specification

- Operation voltage: 5V
- 3Pin
- Size:25*12mm
- Weight: 1g

2 Pinout

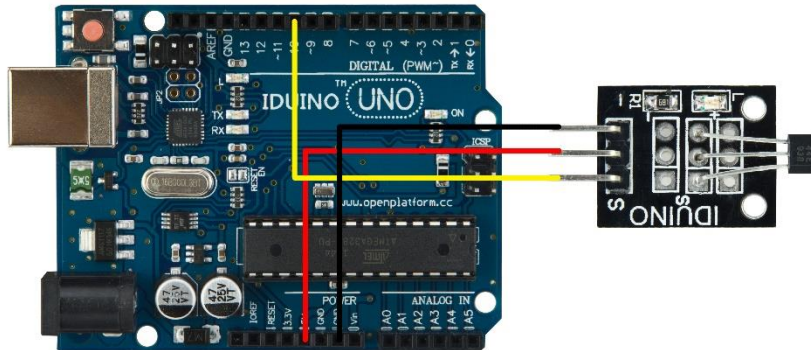
Pin	Description
S	Digital signal output pin, real-time output voltage signal
+(middle pin)	Power
-	Ground

3.example

In this example, If no magnetic field is present, the signal line of the sensor is HIGH (3.5 V). If a magnetic field is presented to the sensor, the signal line goes LOW, at the same time the LED on the sensor lights up.

The connection as below:

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Example Code:

*****Code begin*****

```
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 line as
input
}
void loop ()
{
  val = digitalRead (SENSOR) ; // read sensor line
  if (val == LOW) // when the Hall sensor detects a magnetic field,
Arduino LED lights up
  {
    digitalWrite (Led, HIGH);
  }
  {
    digitalWrite (Led, LOW);
  }
}
```

*****Code End*****