Linear Magnetic Hall Sensor (SE014)

1 Introduction

This module is analog hall sensor module, it can both output an analog and digital voltage at the signal pin of this module. This module is different from hall magnetic sensor(Module 31), which just output digital signal, like a magnetic switch.

Specification

- Operation voltage: 5V
- 4Pin
- Size:25*12mm
- Weight: 4g

2 Pinout

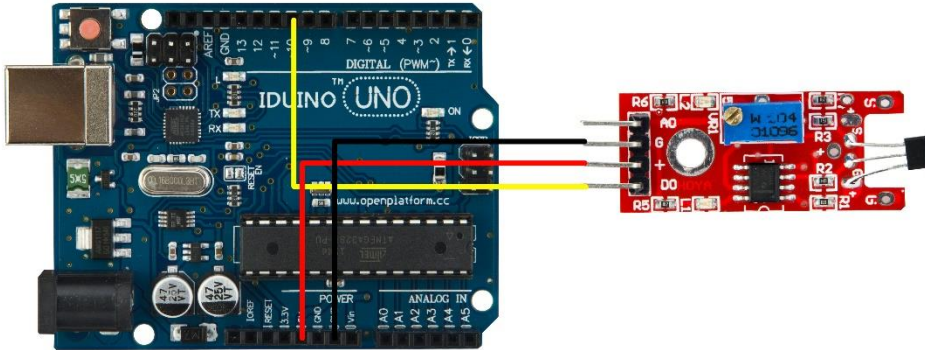| Pin	Description
A0	Analog output pin, real-time output voltage signal
G	Ground
+	Power
D0	Digital signal pin

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:

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******