Linear Hall Experiment

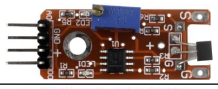
Overview

This lesson will teach you how to use Linear Hall module, which is simple and easy to use.

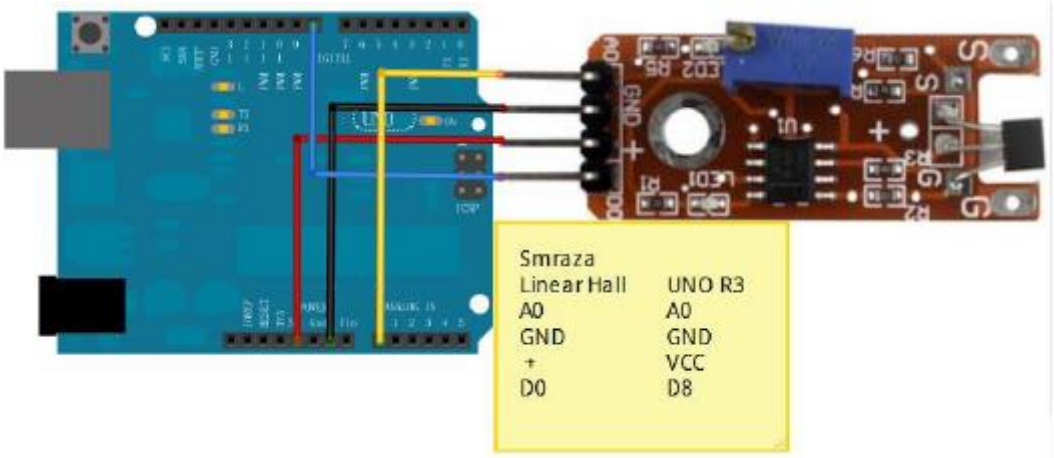
Pin definition

UNO R3	Linear Hall
A0	A0
GND	GND
5V	+
D8	D0

Hardware required

Material diagram	Material name	Number
	Linear Hall	1
	UNO R3	1
	USB Cable	1
	Male to Female Jumper wires	several

Connection diagram

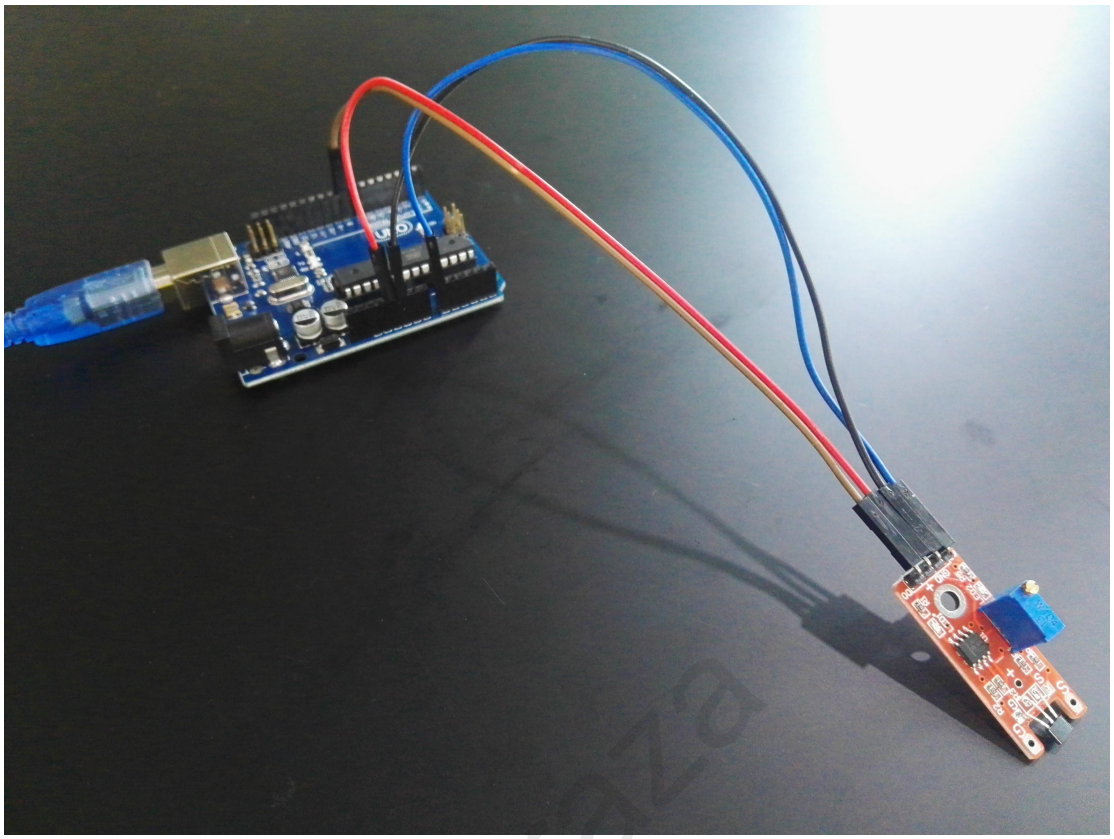


Sample code

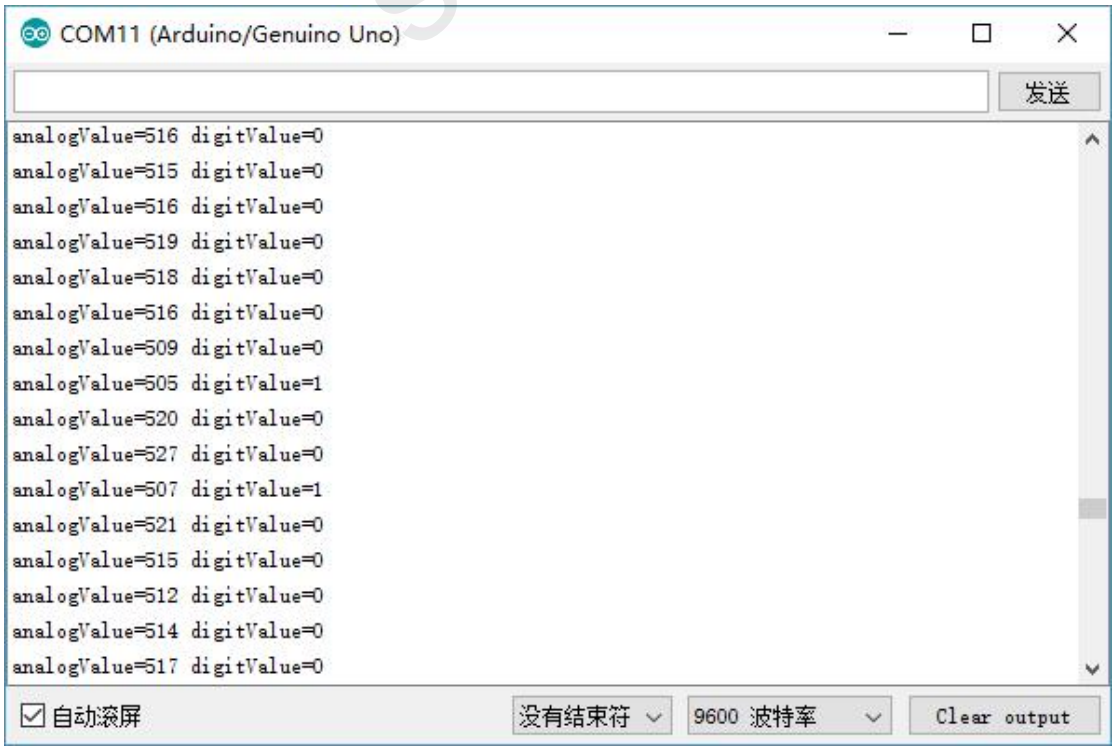
Note: sample code under the **Sample code** folder.

```
int analog_sensor = A0; // select the input pin for the potentiometer
int digit_sensor = 8; // select the input pin for the potentiometer
int analogValue ; // value from the analog input pin
int digitValue ; // value from the digit input pin
void setup ()
{
    pinMode (digit_sensor, INPUT);
    Serial.begin (9600);
}
void loop ()
{
    analogValue = analogRead (analog_sensor);
    digitValue=digitalRead(digit_sensor);
    Serial.print("analogValue=");
    Serial.print(analogValue);
    Serial.print('\t');
    Serial.print("digitValue=");
    Serial.println (digitValue);
    delay(300);
}
```

Example picture



Result



Language reference

Tips：Click on the following name to jump to the web page.
If you fail to open, use the Adobe reader to open this document.

pinMode()
digitalRead()
analogRead()
Serial

Application effect

Open the serial port monitor, and using a magnet to slowly approach the sensor, you will see some different values by return.

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* About Smraza:
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