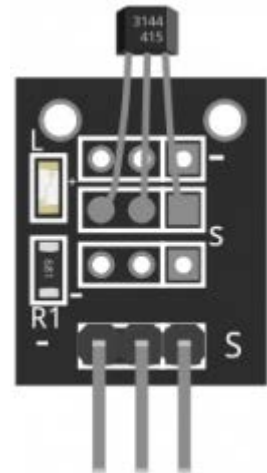


Analog Hall Magnetic Sensor Module

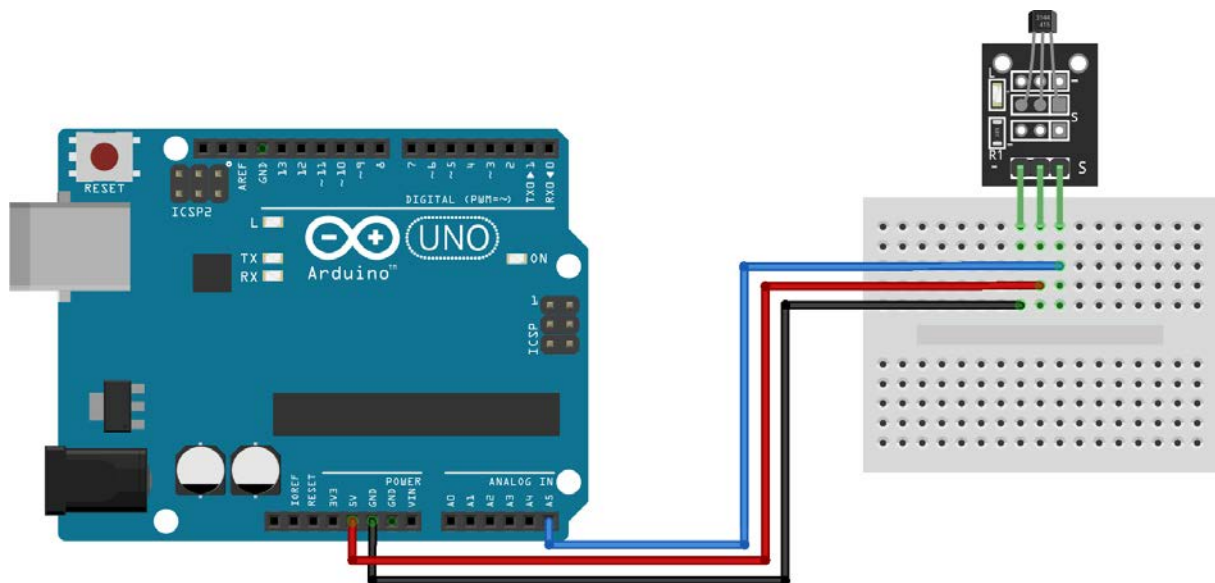
Analog Hall Magnetic Sensor Module is a sensor that will increase or decrease the output voltage in the presence of a positive or negative magnetic field. When no magnetic field is detected, the output should be around half the supply voltage (~2.5v) or 512 in value.

The module consists of a sensitive Hall-effect sensor. It's Compatible with popular electronics platforms like Arduino and Raspberry Pi.



Pinout and Connection to Arduino

Connect the Power line (middle) and ground (-) to +5 and GND respectively. Connect signal (s) to pin A5 on the Arduino.



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Arduino Example Sketch

The example sketch will brighten an LED connected to pin 11 when a positive magnetic field is detected and dim the LED when a negative field is detected.

```
int sensorPin = 5; //define analog pin 5
int ledPin = 11; // LED
int value = 0;

void setup() {
  Serial.begin(9600);
  pinMode(ledPin, OUTPUT);
}

void loop() {
  value = analogRead(sensorPin);
  analogWrite(ledPin, value / 4); // LED (val: 0 - 255)
  Serial.println(value, DEC); // Magnetic field strength (val: 0 - 1024)
                               // high values for high field
                               // low values for low field

  delay(100);
}
```