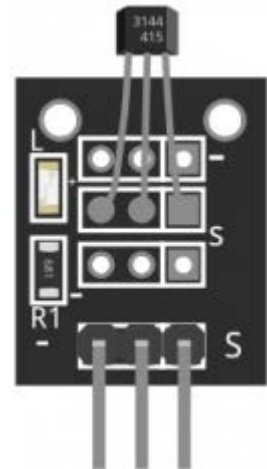


Hall Magnetic Sensor Module

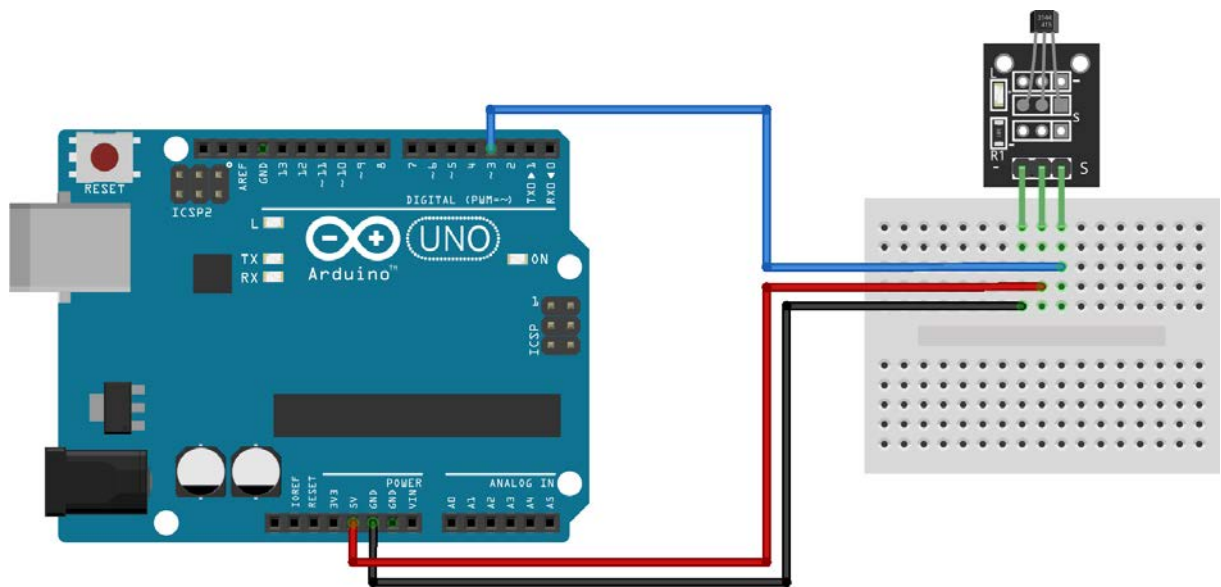
Hall Magnetic Sensor Module is a switch that will turn on/off in the presence of a magnetic field.

The sensor consists of a 3144EUA-S sensitive Hall-effect switch for high-temperature operation, a 680Ω resistor and a LED. 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 3 on the Arduino.



fritzing

Arduino Example Sketch

The example sketch will light up the LED on pin 13 when a magnetic field is detected.

```
int led = 13; //LED pin
int sensor = 3; //sensor pin
int val; //numeric variable

void setup()
{
    pinMode(led, OUTPUT); //set LED pin as output
    pinMode(sensor, INPUT); //set sensor pin as input
}

void loop()
{
    val = digitalRead(sensor); //Read the sensor
    if(val == HIGH) //when magnetic field is detected, turn led on
    {
        digitalWrite(led, HIGH);
    }
    else
    {
        digitalWrite(led, LOW);
    }
}
```