

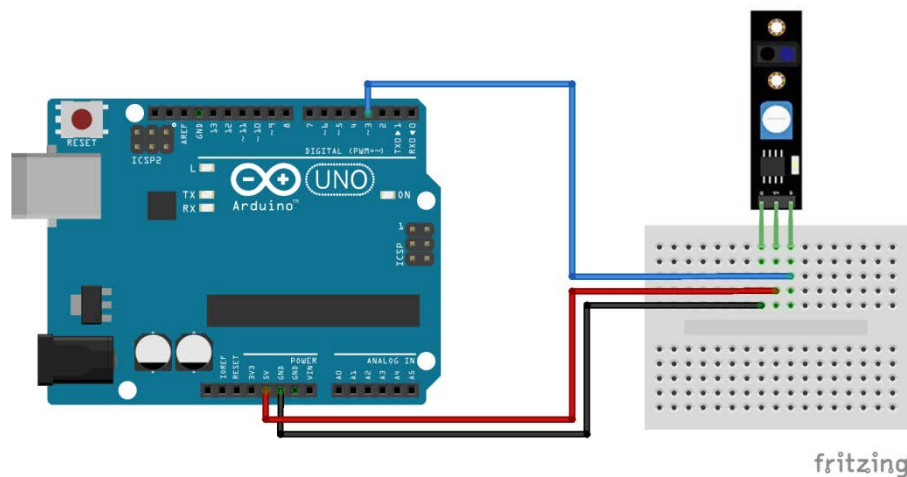
# Line Follow Sensor Module

The line follow sensor module has a reflective IR sensor for determining if the surface is light or dark. The sensor can also be used to sense if an object is close or far away. It is used in robots to follow the line or keep inside the restricted area.

If no object is in close proximity to the sensor or the surface is dark, the output is high. If a reflective object is near or the surface is light, the output will go high.

## Pinout and connection to Arduino

The sensor connects to the Arduino with three wires. Connect VCC to 5v, GND to GND and OUT to pin 3.



## Arduino Example Sketch

The following Arduino Sketch will light the LED when object is near or surface is light.

```
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) { digitalWrite(Led, HIGH); }
    else { digitalWrite(Led, LOW); }
}
```