

Infrared Line Tracking Module

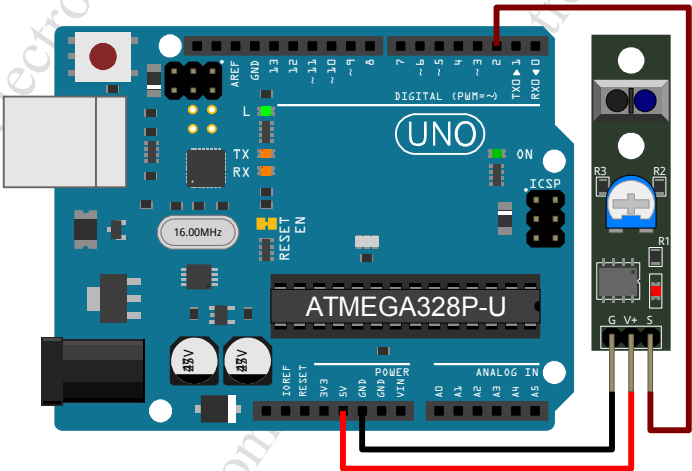
This module contains an integrated infrared reflection detector (transmitter / receiver pair) mounted parallel to the Printed Circuit Board which detects between light and dark objects a short distance (up to 10 millimetres [mm]) from the detector's face. Its sensitivity is adjusted via the on-board 270° rotation potentiometer.

It is able to distinguish between light and dark objects such as a thick dark line drawn on a light surface. It outputs an analogue signal proportional to the infra-red reflection level of an object, and a digital signal when a preset level has been reached.

Table 1: Infrared Line Tracking Module Pin Connections

Device	Arduino	Wire	Description
G	GND	Black	Ground connection.
V+	5V	Red	Positive 5 Volts Direct Current supply for board circuitry.
S	D2	Brown	Digital output signal from infrared sensor.

D2: can be any digital pin.



The sketch below displays the results to the Arduino Serial Monitor / Plotter:

```
int pLineTrack = 2;
void setup() {
  Serial.begin( 9600 );
  pinMode( pLineTrack, INPUT );
}
void loop() {
  Serial.println( digitalRead( pLineTrack ), DEC );
}
```

Module Specifications

- PCB Dimensions (H × W × D) : 41.7 × 10.5 × 1.6 mm
- Enclosing Dimensions (H × W × D) : 47.5 × 10.5 × 11.4 mm
- Weight: 2.24 grams [g]
- Input Voltage: 5 VDC

Module Performance

- Current Draw (not triggered): 10.9 milliamps [mA] @ 5.01 VDC
- Current Draw (triggered): 12.8 mA @ 5.03 VDC

Infrared Line Tracking Module...

Projects

Folder: \Modules\Optical\Infrared_Line_Tracking\

- **Infrared_Line_Tracking_SM**: Displays the results to the Arduino Serial Monitor / Plotter.

Infrared Line Tracking Module - Dimensions

