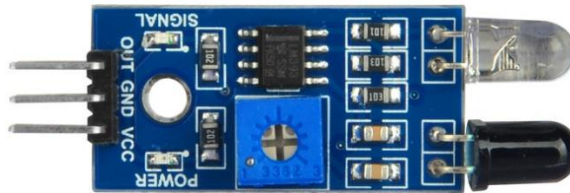
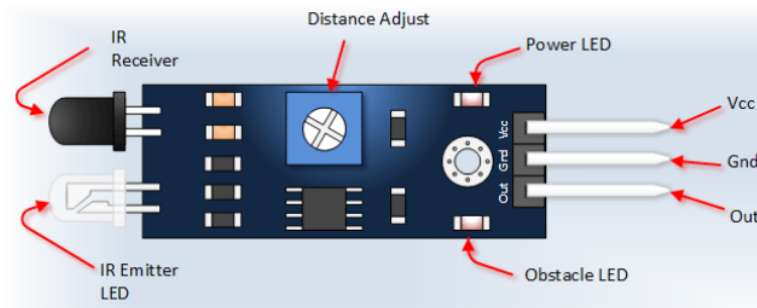


Infrared Line Detection Module



IR LINE DETECTION MODULE PIN OUTS



Pin, Control Indicator

Vcc
Gnd
Out
Power LED
Obstacle LED
Distance Adjust
IR Emitter
IR Receiver

Description

3.3 to 5 Vdc Supply Input
Ground Input
Output that goes low when obstacle is in range
Illuminates when power is applied
Illuminates when obstacle is detected
Adjust detection distance. CCW decreases distance.
CW increases distance.
Infrared emitter LED
Infrared receiver that receives signal transmitted by Infrared emitter.

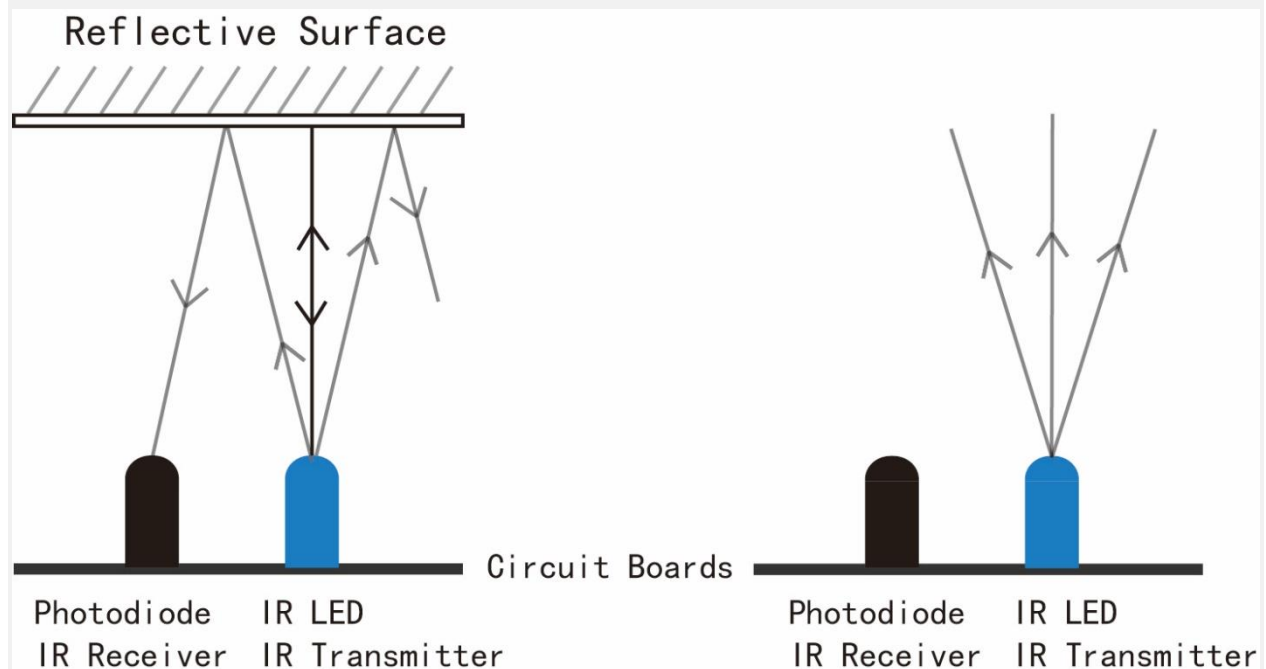
SPECIFICATION

- The output port OUT sensor module can be directly connected to the microcontroller IO port , you can directly drive a 5V relay ;
- the module detects the distance 2 ~ 30cm, detection angle 35 ° , the distance can detect potential is adjusted

- Can be used for 3-5V DC power supply modules
- When the power is turned on, the red power indicator light
- Using the comparator LM393
- Interface :
 1. VCC: External 3.3V-5V voltage (can be directly connected to 5v MCU and 3.3v MCU)
 2. GND: GND External
 3. OUT: Small board digital output interfaces (0 and 1)
- Connection : VCC-VCC; GND-GND; OUT-IO
- With the screw holes of 3mm , easy fixed installation
- Board Size : 3.1CM * 1.5CM / 1.22 * 0.59"

WORKING PRINCIPLE

The IR transmitter sends an infrared signal that, in case of a reflecting surface (e.g. white color), bounces off in some directions including that of the IR receiver that captures the signal detecting the object.



When the surface is absorbent (e.g. black color) the IR signal isn't reflected and the object cannot be detected by the sensor. This result would occur even if the object is absent.

