

Arduino Infrared proximity switch module

The Infrared Reflectance Sensor Module carries a single infrared LED and phototransistor pair in an inexpensive, tiny module that can be mounted almost anywhere and is great for obstacle detection of robot and home alert system. The optimal sensing distance is within 50cm (20 inches).

Building interactive work is as easy as piling bricks, just plug it to our Arduino Sensor Shield with a buckled cable, and make it looks professional and neat.

The Infrared Reflectance Sensor Module simply gives a digital signal when it detects infrared reflection from a person or object, so the code is exactly as the one we would use for a pushbutton.

Please be noted that, when reflection is detected, it gives a “low” value.

Code Test:

```
int ledPin = 13;           // choose pin for the LED
int inputPin = 2;         // choose input pin (for Infrared sensor)
int val = 0;              // variable for reading the pin status

void setup() {
  pinMode(ledPin, OUTPUT); // declare LED as output
  pinMode(inputPin, INPUT); // declare Infrared sensor as input
}

void loop(){
  val = digitalRead(inputPin); // read input value
  if (val == HIGH) {          // check if the input is HIGH
    digitalWrite(ledPin, LOW); // turn LED OFF
  } else {
    digitalWrite(ledPin, HIGH); // turn LED ON
  }
}
```

General Electronics Tech Co., Ltd.

E-Mail: support@geeetech.com MSN: Rockylou84@hotmail.com

Tel: +86 755 2658 4110 Fax: +86 755 2658 4074 Phone: +86 137 2877 2361

}

Summary:

- * Voltage:DC 5V
- * Current: 100mA
- * Sensing Distance :3 - 50 CM
- * NPN Normal Open Type
- * Sensor diameter: 18mm
- * Sensor Length: 43mm
- * Lead Length: 45mm
- * Pin Definition: red (power "+") and green(power "-"), yellow (signal date).

General Electronics Tech Co., Ltd.

E-Mail: support@geeetech.com MSN: Rockylou84@hotmail.com

Tel: +86 755 2658 4110 Fax: +86 755 2658 4074 Phone: +86 137 2877 2361