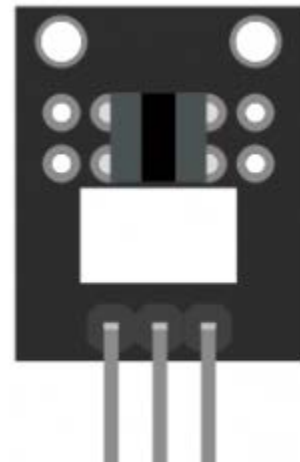


# Photo interrupter Module

Photo Interrupter Module for Arduino, will trigger a signal when light between the sensor's gap is blocked.

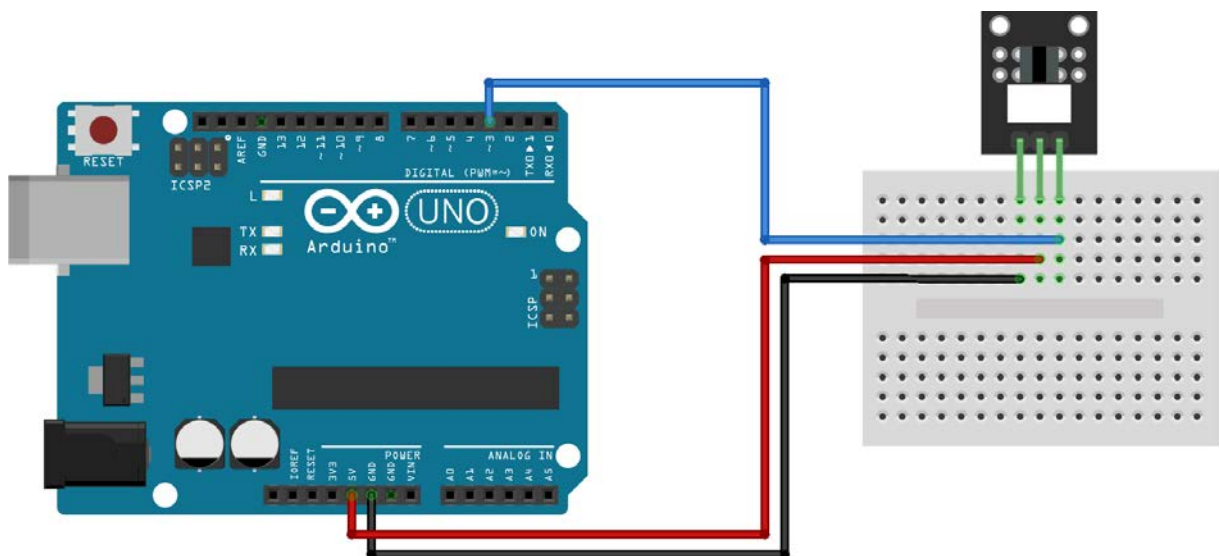
The photo Interrupter module consists of an optical emitter/detector in the front and two resistors (1 kΩ and 33 Ω) in the back. The sensor uses a beam of light between the emitter and detector to check if the path between both is being blocked by an opaque object.



Operating Voltage	3.3 – 5V
Dimensions	18.5mm x 15mm [0.728in x 0.591in]

## Pinout and Connection to Arduino

Connect the power line (middle) and ground (left) to +5V and GND respectively. Connect signal (S) to pin 3 on the Arduino.



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## Arduino Example Sketch

The following sketch will light up the LED (pin 13) on the Arduino when there's an object blocking the beam of light between the sensors gap.

```
int Led = 13; // define LED pin
int buttonpin = 3; // define photo interrupter signal pin
int val; //define a numeric variable

void setup()
{
    pinMode(Led, OUTPUT); // LED pin as output
    pinMode(buttonpin, INPUT); //photo interrupter pin as input
}

void loop()
{
    val=digitalRead(buttonpin); //read the value of the sensor
    if(val == HIGH) // turn on LED when sensor is blocked
    {
        digitalWrite(Led,HIGH);
    }
    else
    {
        digitalWrite(Led,LOW);
    }
}
```