

ARDUINO SENSOR OPTOCOUPLER

User Manual

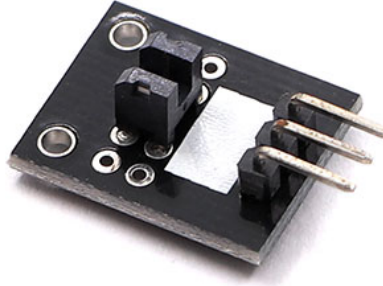


Photo interrupter module use the building Arduino led. If the sensor is broken the LED is turned on. Device senses a signal, LED lights, otherwise off.

Schematic:

If you view from the top like on the photo

- Left = Ground
- Middle = +5V
- Right = Signal

Connect the module to the arduino as follows:

- Arduino pin GND to module GND
- Arduino digital pin 3 to module Signal
- Arduino pin 5V to module 5V

Example Code:

```
// Example code for KY-010
// photo interrupter module

int Led = 13 ;// define LED Interface
int buttonpin = 3; // define the photo interrupter sensor interface
int val ;// define numeric variables val
void setup ()
{
  pinMode (Led, OUTPUT) ;// define LED as output interface
  pinMode (buttonpin, INPUT) ;// define the photo interrupter sensor output interface
}
void loop ()
{
  val = digitalRead (buttonpin) ;// digital interface will be assigned a value of 3 to read val
  if (val == HIGH) // When the light sensor detects a signal is interrupted, LED flashes
  {
    digitalWrite (Led, HIGH);
  }
  else
  {
    digitalWrite (Led, LOW);
  }
}
```