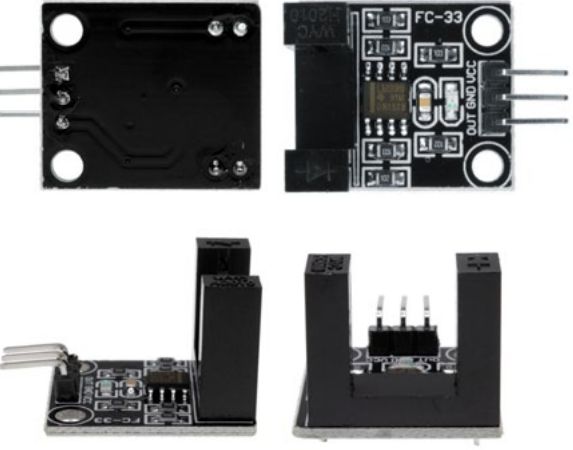


**ARD 2** **Arduino Compatibles**  
*Controllers, Shields, Modules & Sensors*

**Photo Interrupter Module 10mm** *ARD2-2015*

- **Build a photo interrupter warning lamp circuit**
- **Applications include optical limit switches, general object detection, parts counting etc.**



**Description**

This module can be used to build a simple circuit that produces a photo interrupter warning lamp. It is composed of an infrared emitter on one upright and a shielded infrared detector on the other. By emitting a beam of infrared light from one upright to the other, the sensor can detect when an object passes between the uprights, breaking the beam.

Used for many applications including optical limit switches, general object detection, parts counting etc. Due to the photointerrupter's larger width (10mm), it has different application possibilities compared to the smaller ARD2-2210.

**Specifications**

<b>Colour</b>	Black
<b>Material</b>	PCB
<b>Operating Voltage</b>	5VDC
<b>Photointerrupter Width</b>	10mm
<b>Dimensions</b>	25mm x 20mm x 15mm
<b>Weight</b>	4g

**Pinout**

Module	Arduino	Function
GND	GND	Ground Connection
OUT	D3	Digital output signal
+5V	5V	Power Supply

**Test Code**

```
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);
}
}
```