

Eye Blink Sensor User Guide

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User Guide

The Optimus Eye Blink Sensor comes as a fully assembled module which can plug and play. Connect the 5V pin to 5V supply and connect the GND pin to the ground terminal and the OUT pin gives a digital signal when the eye lid closed. Pins are shown in the Figure 1.

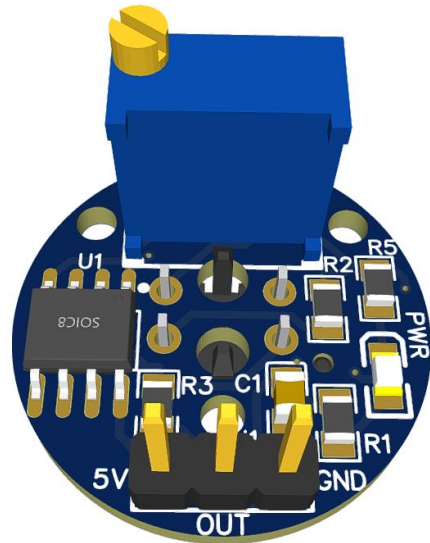


Figure 1: Pin configuration

Tip: The detecting distance can be adjusted using the trimmer potentiometer. Also, use a transparent goggle or a glass to mount the sensor using 3 mounting holes.

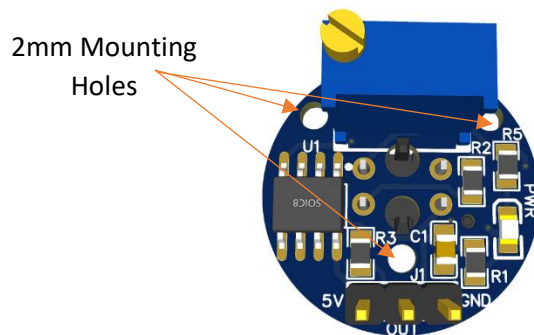


Figure 2: Mounting Holes

Once you have connected power and the output to the microcontroller, upload the sample code given below and check the functionality.

Sample Code

```
int ledPin = 13; // LED connected to digital pin 13
int inPin = 3;   // pushbutton connected to digital pin 3
int val = 0;    // variable to store the read value

void setup() {
  pinMode(ledPin, OUTPUT); // sets the digital pin 13 as output
  pinMode(inPin, INPUT_PULLUP); // sets the digital pin 3 as input
  Serial.begin (9600);
}

void loop() {
  val = digitalRead(inPin); // read the input pin
  Serial.println (val);
  digitalWrite(ledPin, val); // sets the LED to the sensor value
}
```

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Report issues to: info@optimus.lk

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