WORLD FAMOUS ELECTRONICS llc.

PULSE SENSOR
THE EASY TO USE HEART RATE SENSOR & KIT

General Description

The Pulse Sensor is the original low-cost optical heart rate sensor (PPG) for Arduino and other microcontrollers. It's designed and made by World Famous Electronics, who actively maintains extensive open-source projects and code at:
www.pulsesensor.com

Features

- Includes Kit accessories for high-quality sensor readings
- Designed for Plug and Play
- Small size and embeddable into wearables
- Works with any MCU with an ADC
- Works with 3 Volts or 5 Volts
- Well-documented Arduino library
- Certified Open Source

OSHW
US000075

Kit Includes

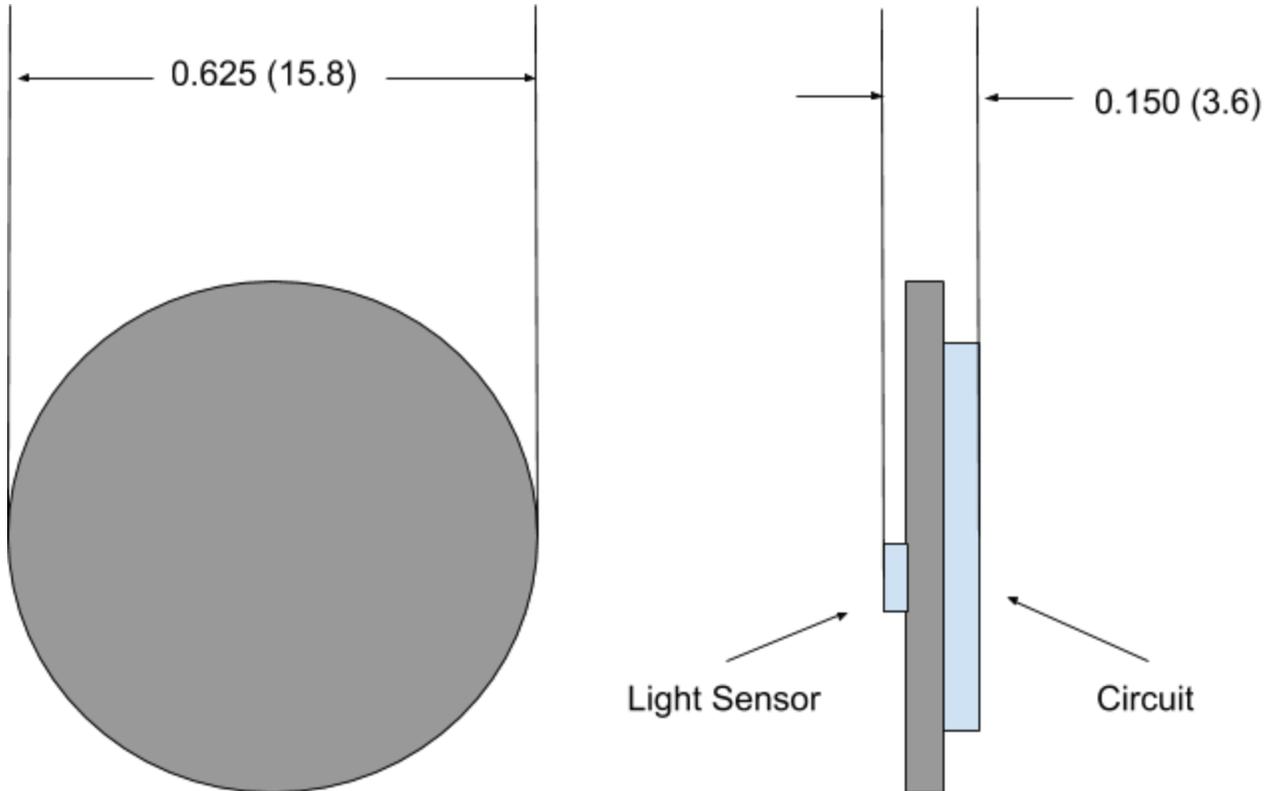| |
|---|
| Protective Vinyl Cover, insulating the circuit from user's skin. |
| A Velcro Finger Strap, size to fit any user. |
| Velcro Dots, allowing for consistent surface pressure and high-fidelity readings. |
| Precisely Sized Ear Clip, allowing for different types of wearable applications. |

Product Photo:

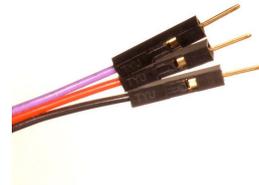**Pulse Sensor Optical Heart Rate Monitor**

Absolute Maximum Ratings

Absolute Maximum Ratings	Min	Typ	Max	Unit
Operating Temperature Range	-40		+85	°C
Input Voltage Range	3		5.5	V
Output Voltage Range	0.3	Vdd/2	Vdd	V
Supply Current	3		4	mA

Physical Dimensions PCB inch(mm)

0.625 (15.8)

0.150 (3.6)

Light Sensor

Circuit

Cable and Connection Details

- Length 24 inches (610 mm)
- 26 Gauge, Soft braided-wire
- PVC Insulation, Ribbon Style
- Male Header Termination
  - Black Wire = GND
  - Red Wire = Vdd
  - Purple Wire = Pulse Signal

Open Source Hardware Association Certification Number: US000075

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