WORLD FAMOUS ELECTRONICS llc.

PULSE SENSOR
THE EASY TO USE HEART RATE SENSOR & KIT

<table>
<thead>
<tr>
<th>General Description</th>
<th>Features</th>
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</table>
| 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 | ● 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 |

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:

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### Absolute Maximum Ratings

<table>
<thead>
<tr>
<th></th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
<td>+85</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Input Voltage Range</td>
<td>3</td>
<td>5.5</td>
<td>5.5</td>
<td>V</td>
</tr>
<tr>
<td>Output Voltage Range</td>
<td>0.3</td>
<td>Vdd/2</td>
<td>Vdd</td>
<td>V</td>
</tr>
<tr>
<td>Supply Current</td>
<td>3</td>
<td>4</td>
<td></td>
<td>mA</td>
</tr>
</tbody>
</table>

### Physical Dimensions PCB inch(mm)

- **0.625 (15.8)**
- **0.150 (3.6)**

### 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

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