**ELECTRICAL SPECIFICATION**

- **Input Voltage Range**: +8 Vdc to +30 Vdc
- **Output Drive Current**: 3 Amps per Output
- **Operating Temperature**: -40°C to +85°C
- **Flash Patterns**: Inter-Cycle, Warp, Double, Quad, Quint, E-Pattern, Q-Switch, Power Pulse, ETM
- **Output Drive Method**: High-side switched
- **Pattern Control Method**: Wire Matrix (5 wires, 2 head-control, 3-pattern control)
- **Standby Current**: <5mA @ 12.8 Vdc
- **Reverse Polarity Protection**: Yes (with inline fuse)
- **Short Circuit Protection**: Yes
- **Thermal Protection**: Yes

**MECHANICAL SPECIFICATIONS**

- **Weather resistance**: Potted to protect circuitry, but not waterproof
- **Dimensions**: 3.2" x 1.45" x 0.85"

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**WARNING**

This device is intended for use with LED Lights ONLY!!

Emergency Lighting is intended for use on approved vehicles ONLY. It is the responsibility of the user of these systems to insure compliance to any Federal, State or Municipal regulations which may apply.

Use of this product on an Incandescent, Halogen or any light source other than LED's may damage the unit and void the warranty.

The device is designed to flash any SoundOff Signal LED Light up to 3 amps load per output. DO NOT connect more than a 3 amp load to the output. Doing so will shut the unit down to prevent damage to the Flasher.

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**Figure 1.**

**Figure 2.**
INSTALLATION

1. First, install the Flasher in a protected location using the flasher itself as a template. Use #6 sheet metal screws and note that flasher is designed with 1/2” slot off-set. See figure #1 on previous page. Make sure all connectors are easily accessible.

IMPORTANT

For continued reliability, RTV or waterproofing grease must be used on all terminals to prevent corrosion and premature failure of the connections.

2. Install the LED light heads in the preferred locations.

3. Run the cable between each individual light and the Flasher. Make sure the cable is secure along the chosen routing inside the vehicle to prevent it from damage by chafing or binding. Be sure to keep the cable away from engine hot spots.

4. Plug the Power / Control Harness into the Flasher. Connect the Black wire to a reliable ground. Connect the Red wire through a 10 Amp AUTO style fuse to +12 Volts.

NOTE

It is important to follow the correct color code when inserting the pins into the AMP connectors.

5. Connect the extension cables to the LED light heads.

6. Next, connect the other end of the cable Output on the Flasher, see Figure 1.

PATTERN MATRIX

To select any one of the different Flash Modes, simply connect the attached control wires to a switch in the following combinations. Connect the wires marked “X” to (+) 10-16 Vdc and remove the unused wires or connect them to (-) ground.

<table>
<thead>
<tr>
<th>Mode</th>
<th>FPM</th>
<th>Violet</th>
<th>Orange</th>
<th>Green</th>
<th>White</th>
</tr>
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<tbody>
<tr>
<td>OFF</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Quad™</td>
<td>70</td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td>Warp™</td>
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</tr>
<tr>
<td>3</td>
<td>Double™</td>
<td>140</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Quint™</td>
<td>70</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Inter-cycle™</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>6</td>
<td>Q-Switch™</td>
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<td>X</td>
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<td></td>
</tr>
<tr>
<td>7</td>
<td>Power Pulse™</td>
<td>180</td>
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<td>X</td>
<td>X</td>
</tr>
<tr>
<td>9</td>
<td>E Single™</td>
<td>130</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
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</tr>
<tr>
<td>13</td>
<td>ETM™</td>
<td>180</td>
<td>X</td>
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</tr>
</tbody>
</table>

WARRANTY

SoundOff Signal warrants the LED Flasher System for Five (5) full years from the date of purchase to the original purchaser against any manufactured defects or workmanship. This warranty applies only to units installed according to the manufacturer’s installation instructions and operated within the unit’s specifications. Warranty is void if the unit was installed incorrectly or maliciously damaged. All warranty claims must be accompanied by a dated proof of purchase. SoundOff Signal retains the right to be the sole mediator of what constitutes defects in performance or manufacturing.