<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>SIGNAL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>J1 +</td>
<td>PWR</td>
<td>This pin should be connected to the positive output of the driver power source. The maximum applied voltage should not exceed +50 VDC.</td>
</tr>
<tr>
<td>J1 -</td>
<td>GND</td>
<td>This pin should be connected to the negative output of the driver power source.</td>
</tr>
<tr>
<td>J4 +</td>
<td>CMD1</td>
<td>The command for solenoid-1 should be connected to this pin. The range of the input is 4 to 20 mAmps.</td>
</tr>
<tr>
<td>J4 -</td>
<td>GND</td>
<td>This pin may be used as the return for CMD1.</td>
</tr>
<tr>
<td>J6 +</td>
<td>CMD2</td>
<td>The command for solenoid-1 should be connected to this pin. The range of the input is 4 to 20 mAmps.</td>
</tr>
<tr>
<td>J6 -</td>
<td>GND</td>
<td>This pin may be used as the return for CMD2.</td>
</tr>
<tr>
<td>J2 +</td>
<td>PWR</td>
<td>This pin should be connected to one terminal of solenoid-1.</td>
</tr>
<tr>
<td>J2 -</td>
<td>SOL1</td>
<td>This pin should be connected to the other terminal of solenoid-1</td>
</tr>
<tr>
<td>J3 +</td>
<td>PWR</td>
<td>This pin should be connected to one terminal of solenoid-2.</td>
</tr>
<tr>
<td>J3 -</td>
<td>SOL2</td>
<td>This pin should be connected to the other terminal of solenoid-2.</td>
</tr>
<tr>
<td>J7 +</td>
<td>+ 5 VDC</td>
<td>+5 VDC Output. Maximum usable current should be limited to 250 mAmps.</td>
</tr>
<tr>
<td>J7 -</td>
<td>GND</td>
<td>Return for +5 VDC.</td>
</tr>
</tbody>
</table>

**Pulse Width Modulator PWM-03 and PWM-04 Pin Assignment and Description**

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E-mail oes@oes-site.com
Warning:

Handling the PWM module shall be performed in a static safe environment while a ground strap is used. Damages arising due to not observing the static precautions shall void the limited ninety-day warranty.

PWM-04 Wiring Diagram

- DC Power Source
  - +50 VDC Max
  - +9 VDC Min

- User +5 VDC Output, Max. 250 mAmp
  - Return
  - Command-2
  - Command-2 Return
  - Command-1
  - Command-1 Return

- Solenoid-1
  - Solenoid-2
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Limited Ninety-Day Warranty

Optimal Engineering Systems, Inc. warrants to the original purchaser that this product to be free from defects in material or workmanship for a period of ninety days from date of purchase. Optimal Engineering Systems, Inc. agrees to repair any such defect or exchange the product with a new or equal replacement. Defective product must be returned to Optimal Engineering Systems, Inc. postpaid. This warranty is void for any product that has been modified by the customer in any way. If failure of the Product has resulted from accident, abuse, or misapplication, Optimal Engineering Systems, Inc. shall have no responsibility under this Ninety-day Warranty.