<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. This input is TTL / CMOS compatible. However, this input must not exceed the voltage applied to J1 +.</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 -2 should be connected to this pin. This input is TTL / CMOS compatible. However, this input must not exceed the voltage applied to J1 +.</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>
</tbody>
</table>

Pick and Hold Module Pin Assignment and Description

Optimal Engineering Systems, Inc.
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+1 (818) 222-9200
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E-mail oes@oes-site.com
Warning:

Handling the Pick and Hold 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.
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PH-ET-02 Wiring Diagram

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Self Triggered Wiring Diagram
R5 potentiometer adjusts the pick time. Using a voltmeter, measure the voltage of TP1 respect to System Ground, this is the output of R5 potentiometer. The scale is 400 msec per Volt. For example, if it is set at 1.5 Volts, the pick time will be 600 msec.

R6 potentiometer adjusts the hold voltage. Using a voltmeter, measure the voltage of TP2 respect to System Ground, this is the output of R6 potentiometer. The scale is 5% duty cycle per Volt. For Example, if it is set at 2 Volts, the hold voltage will be 40% of the supply voltage.
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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 miss-application, Optimal Engineering Systems, Inc. shall have no responsibility under this Ninety-day Warranty.