**SPECIFICATIONS**

1. **MECHANICAL SPECIFICATIONS**
   - RANGE (RPM): 0 TO 4000
   - TOLERANCE: ±2% FROM 21°C TO 27°C
   - WEIGHT (g): 227

2. **ELECTRICAL SPECIFICATIONS**
   - INPUT TYPE: SEE INPUT SIGNAL TABLE
   - WORKING VOLTAGE (VDC): 11 TO 28

3. **ENVIRONMENTAL SPECIFICATIONS**
   - TEMPERATURE (°C): -40 TO 82
   - IP RATING: IP66 FROM FRONT

4. **STANDARDS MET**
   - SAE-J-1399

5. **MATERIALS**
   - HOUSING: NYLON 6/6 COLORED WHITE
   - BEZEL: STAINLESS STEEL
   - MOUNTING CLAMP: YELLOW ZINC PLATED STEEL
   - POINTER: ACRYLIC ILLUMINATED WITH WHITE LIGHT
   - POINTER CAP: POLYCARBONATE COLORED BLACK
   - OTHER HARDWARE: BRASS AND STAINLESS STEEL

6. **TIME METER**
   - TIME METER DISPLAY: LCD
   - TIME METER TYPE: REAL TIME CLOCK
   - TIME RANGE (HOURS): 0 TO 99,999.9
   - TIME RANGE OVERFLOW BEHAVIOR: RESETS TO 0
   - TIME METER ACTIVATION SPEED (RPM): ≥150±50
   - TIME METER TOLERANCE: ±0.01% FROM 20°C TO 30°C

7. **ARTWORK**
   - BACKGROUND COLOR: BLACK
   - LETTERING AND SCALE COLOR: WHITE
   - LETTERING AND SCALE ILLUMINATION: GREEN
   - IEC LOGO: PANTONE #268 U

**NOTES**

1. MOUNTING CLAMP, FASTENERS, 12V LAMP, AND 24 V LAMP PACKAGED AND SHIPPED WITH TACHOMETER.

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**INPUT SIGNAL TABLE**

<table>
<thead>
<tr>
<th>SIGNAL NO.</th>
<th>TYPE OF SIGNAL INPUT</th>
<th>RECOGNIZED DC SIGNAL VOLTAGE</th>
<th>PULSE SHAPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FROM 'W' POINT OF ALTERNATOR</td>
<td>0.7 MAX 28.0</td>
<td>V HIGH / V LOW</td>
</tr>
</tbody>
</table>

**PROGRAMMING**

1. DETERMINE THE DESIRED NUMBER OF PULSES PER REVOLUTION IN WHOLE NUMBERS (EX 1, 2, 3, 4, 5, ETC)
2. SET THE DIP SWITCHES TO EQUAL THE DESIRED PULSE PER REVOLUTION BY ADDING UP THE VALUES OF THE SWITCHES SET TO THE 'ON' POSITION.
3. DIP SWITCHES 9 AND 10 ARE FOR FACTORY USE ONLY. DO NOT CHANGE THEIR SETTINGS.

**DIP SWITCHES SETTING EXAMPLES**

<table>
<thead>
<tr>
<th>PULSES PER REVOLUTION</th>
<th>DIP SWITCHES SET TO &quot;ON&quot;</th>
<th>DIP SWITCHES SET TO &quot;OFF&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>D1 ON</td>
<td>D2 OFF</td>
</tr>
<tr>
<td></td>
<td>D3 ON</td>
<td>D4 OFF</td>
</tr>
<tr>
<td></td>
<td>D5 ON</td>
<td>D6 OFF</td>
</tr>
<tr>
<td></td>
<td>D7 ON</td>
<td>D8 OFF</td>
</tr>
</tbody>
</table>

**BILL OF MATERIALS**

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5166</td>
<td>TACHOMETER ALTERNATOR</td>
</tr>
<tr>
<td>2</td>
<td>9058</td>
<td>INSTRUCTION SHEET, ALTERNATOR TACHOMETER</td>
</tr>
</tbody>
</table>

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**INTERPRET GEOMETRIC TOLERANCES PER ASME Y14.5**

- ±0.020
- ±0.010
- ±0.005

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**FOR PANELS .020 TO .500 [0.5 TO 12.7] THICK**

- BATTERY "+" TERMINAL
- BATTERY "-" TERMINAL

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**DESIGNER**

- 3/25/2013

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**DRAWN BY**

- BAP
- JDK
- 2016-03-14
- 2016-03-25

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**TRADEMARKS**

- INSTRUMENTS INC.

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