INSTALLATION DIMENSIONS

Warning: Exceeding recommended torque levels may damage load cells.

Mounting Instructions: Fasten mounting surface to flat surface with two mounting screws. Fasten load receiver to loading surface with two screws.

ELECTRICAL INFORMATION

SPI Series is provided with 4-conductor shielded cable (AWG 28) 5 feet (1.5m) long.

Wiring color code complies with ISA S37.8 "Specifications and Tests for Strain Gage Force Transducers" and SMA Load Cell Terminology.

APPLICATION NOTES

1. Single Point I load cells are designed for controlled environmental applications. In general, they can be used anywhere a readout instrument is used.

2. A moisture resistant coating is applied to protect the SPI Series from high humidity conditions up to and including 95% relative humidity and periodic exposure to condensation. These units are not intended for submerged operation.

3. Recommended mounting screw thread engagement: 3/8 to 1/2 in. (9 to 13 mm).

4. Mounting surface should be level within 0.5 in. for best shift error.

5. Please exercise caution to avoid overloading these low capacity load cells while handling and installing them.

PERFORMANCE DATA

Nominal Output—mV/V .................................................. 3
Input Resistance—Ohms ............................................... 350 ± 50 ± 3.5
Output Resistance—Ohms ........................................ 350 ± 5.5
Recommended Excitation—VDC ................................. 10
Non-Linearity—% Rated Output .............................. < ± 0.02
Hysteresis—% Rated Output ................................... < ± 0.02
Temperature Range, Compensated—°F (−10 to +45°C) .......... 15 to 115
Temperature Effect on Zero—
% Rated Output/100°F (% Rated Output/55.6°C) ............ ± 0.15
Zero Balance—% Rated Output ................................... < ± 5
Shift Error: Rated Load applied 3 inches (76 mm) for SPI-3 thru 15 and 5 inches (127 mm) for SPI-25 thru 150, from Load Cell centerline—
% Rated Load/inch (% Rated Load/25.4 mm) ............... 0.012

6. Maximum Moment

<table>
<thead>
<tr>
<th>Rated Capacity</th>
<th>Maximum Moment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0—3 lb.</td>
<td>9 lb. - in.</td>
</tr>
<tr>
<td>0—7.5 lb.</td>
<td>22.5 lb. - in.</td>
</tr>
<tr>
<td>0—15 lb.</td>
<td>45 lb. - in.</td>
</tr>
<tr>
<td>0—25 lb.</td>
<td>125 lb. - in.</td>
</tr>
<tr>
<td>0—50 lb.</td>
<td>250 lb. - in.</td>
</tr>
<tr>
<td>0—100 lb.</td>
<td>500 lb. - in.</td>
</tr>
<tr>
<td>0—150 lb.</td>
<td>500 lb. - in.</td>
</tr>
</tbody>
</table>

7. Applications involving impact/overload forces may require external stops. Request INTERFACE publication IFI #59 for additional information.

SINGLE POINT I LOAD CELL

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WARRANTY & CERTIFICATION STATEMENT ON OTHER SIDE