Series RSL0720
Low Profile Compression Only Load Cell

Standard Features
- Low Profile Compression
- Welded Stainless Steel
- High Accuracy 0.10%
- Barometrically Compensated
- -50°C to 120°C Operation
- mV/V Output and Amplified Output Available

Standard Specifications

Performance
- Capacities: 100 lbs FSO to 120,000 lbs FSO (see table)
- Output: 3 mV/V ±0.50% FSO.
- Linearity: 0.10% FSO.
- Hysteresis: 0.08% FSO.
- Repeatability: 0.03% FSO.
- Compensated Temperature Range: 20°C to 76°C.
- Operating Temperature Range: -50°C to 120°C.
- Temperature Effect on Zero: 0.0036% FSO/°C.
- Temperature Effect on Span: 0.0036% Reading/°C.
- Zero Balance: 1% FSO.
- Bridge Resistance: 350 Ohms nominal.

Mechanical Characteristics
- Calibration: 5 Points (0, 50%, 100%, 50%, 0) Compression.
- Max. Overload: 150% FSO.
- Construction: Welded stainless steel.

Electrical Characteristics
- Excitation: 10 Vdc or Vac.
- Insulation Resistance: Greater than 5000 megohms at 50 Vdc.
- Electrical Termination: PTIH-10-6P Stainless Steel Connector or equivalent.
- Ranges Up To 5000 lbs: MS3102-14S-6P Stainless Steel Connector.
- Ranges Over 5000 lbs: (MIIL-C-5015 with glass to metal seals)
- Connector Pins: A +EXE, D -EXE, B +EXE, E -SIG, C -EXE, F +SIG

RSLO720
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Specifications

Dimensions (mm)

<table>
<thead>
<tr>
<th>Capacity (lbs.)</th>
<th>ØOD</th>
<th>Height</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
<th>D1</th>
</tr>
</thead>
<tbody>
<tr>
<td>100, 250, 500, 1000</td>
<td>76.2</td>
<td>25.4</td>
<td>6</td>
<td>6.3</td>
<td>57.15</td>
<td>14.2</td>
</tr>
<tr>
<td>2K, 3K, 5K</td>
<td>88.9</td>
<td>25.4</td>
<td>6</td>
<td>7.9</td>
<td>66.68</td>
<td>16.8</td>
</tr>
<tr>
<td>10K, 20K, 30K, 50K, 75K, 100K, 120K</td>
<td>114.3</td>
<td>46.3</td>
<td>3</td>
<td>9.5</td>
<td>96.27</td>
<td>38.1</td>
</tr>
</tbody>
</table>

Available Options

Compensated Temperature Ranges
From -50°C to 200°C.

Operating Temperature Ranges
From -50°C to 200°C.

Calibration
Additional calibration points (in addition to standard 5 points) available (Consult Factory)
Special and custom calibration available (Consult Factory)

Amplifiers
Internal or In-Line (Consult Factory).
• Analog (4-20 mA; 0-5 Vdc; 0-10 Vdc).
• Digital (RS-232; RS-485; CANbus; MODbus).

Cable
Consult factory for available cables.

Cable Connector
Add a connector to the end of the cable.
Consult factory for available connectors.

Connectors
Consult factory for available connectors.
Standard connectors are all stainless steel, Gold plated pins are sealed with glass to metal.
Connector is sealed to load cell with O-ring seal.
Glass to metal hermetic seals available between bolt on connectors and load cell.
All welded hermetic connectors available.
Tangential connector orientation available.

Submersible
Operations up to 4876 meters deep (salt water).

Overload Stops
Overload stops available up to 10X FSO depending on range.

Shock and Vibration
Special shock and vibration preparation allows use in the most demanding environments.

Custom Options
Other unlisted customer requested options welcome.

Modifications and Warranty

MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. Choice of electrical termination, material compatibility and performance characteristics are a few of the many options available. Specifications on this datasheet represent the standard configuration only. Product and company names listed are trademarks of their respective companies. Specifications subject to change without notice.

WARRANTY: RDP warrants that its product shall be free from defective workmanship and/or material for a twelve month period from the date of shipment, provided that RDP’s obligation hereunder shall be limited to correcting any defective material FOB our factory. No allowance will be made for any expenses incurred for correcting any defective workmanship and/or material without written consent by RDP. This warranty is in lieu of all other warranties expressed or implied.

Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.