Series RSL0920
Through Hole Load Cell

Standard Features
- Low Profile
- Tension / Compression
- Welded Stainless Steel
- 0.50% Accuracy
- -50° to 120° C Operation
- mV/V Output and Amplified Output Available

Standard Specifications

Performance
- Capacities: Ranges from 250 lbs through 30,000 lbs.
- Output: 2 mV/V Nominal.
- Accuracy: 0.50% BFSL.
- Compensated Temperature Range: 20°C to 76°C.
- Operating Temperature Range: -50°C to 120°C.
- Temperature Effect on Zero: 0.009% FSO/°C.
- Temperature Effect on Span: 0.009% Reading/°C.
- Zero Balance: 1% FSO.
- Bridge Resistance: 700 Ohms Nominal.

Mechanical Characteristics
- Thru Hole: See table.
- Calibration: 5 Points (0, 50%, 100%, 50%, 0) Compression.
- Static Overload Capacity: 150% FSO.
- Construction: Welded stainless steel.

Electrical Characteristics
- Excitation: 10 Vdc or Vac.
- Insulation Resistance: Greater than 5000 megaohms at 50 Vdc at 20°C.
- Electrical Termination: 10', 4 Conductor Shielded Teflon Cable.
- Wiring: RED +EXE GREEN +SIG
  BLACK - EXE WHITE - SIG
Series RSL0920
Specifications

Dimensions (mm)

<table>
<thead>
<tr>
<th>Frame</th>
<th>Diameter</th>
<th>Height</th>
<th>ØD2</th>
<th>S</th>
<th>Min Range (LB)</th>
<th>Max Range (LB)</th>
<th>Max ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>38.1</td>
<td>12.7</td>
<td>12.7</td>
<td>1.30</td>
<td>250</td>
<td>2K</td>
<td>9.7</td>
</tr>
<tr>
<td>B</td>
<td>50.8</td>
<td>16.0</td>
<td>22.4</td>
<td>1.30</td>
<td>250</td>
<td>10K</td>
<td>16.7</td>
</tr>
<tr>
<td>C</td>
<td>76.2</td>
<td>19.1</td>
<td>43.2</td>
<td>2.00</td>
<td>2K</td>
<td>30K</td>
<td>32.5</td>
</tr>
</tbody>
</table>

Available Options

Hole Size
- See table above.

Capacities
- Custom ranges above, below (and in-between) table values available.
- Frame sizes may vary.

Frame Size
- Special frame sizes available.

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

Operating Temperature Ranges
- -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)

Calibration Type
- Compression Only.
- Tension/Compression.

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

Bridges
- Dual bridges available on some sizes. Consult factory.

Cable Length
- Cable length specified.

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

Connector
- Consult factory.

Submersible
- Available to rated depths, consult factory.

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.

RDP Electronics Ltd. • Grove Street, Heath Town • Wolverhampton WV10 0PY
Tel: 01902 457512 • Fax: 01902 452000
E-mail: sales@rdpe.com • Website: www.rdpe.com

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