**Standard Features**
- Subminiature
- Tension / Compression
- Welded Stainless Steel
- 0.50% Accuracy
- -40° to 120°C Operation
- mV/V Output

**Standard Specifications**

### Performance
- **Capacities**: 10, 25, 50, 100, 250, 500, 1000 lb.
- **Output**: 2 mV/V Nominal.
- **Accuracy**: 0.50% BFSL.
- **Compensated Temperature Range**: 20°C to 76°C.
- **Operating Temperature Range**: -40°C to 120°C.
- **Temperature Effect on Zero**: 0.02% FSO/°C.
- **Temperature Effect on Span**: 0.02% Reading/°C.
- **Zero Balance**: 3% FSO.
- **Bridge Resistance**: 350 Ohms Nominal.

### Mechanical Characteristics
- **Calibration**: 5 Points (0, 50%, 100%, 50%, 0) Tension/Compression.
- **Static Overload Capacity**: 150% FSO.
- **Construction**: Welded stainless steel.

### Electrical Characteristics
- **Excitation**: 5 Vdc or Vac.
- **Insulation Resistance**: Greater than 5000 megohms at 50 Vdc at 20°C.
- **Electrical Termination**: 5', 4 Conductor Shielded Teflon Cable with Integral Balance Board.
- **Wiring**: RED +EXE BLACK - EXE
  GREEN - SIG WHITE +SIG
**Series RSL0850**

**Specifications**

**Dimensions (mm)**

- 2X, C Thread
- ØD
- H
- Balance Module
- Cable, 600mm, stainless steel braided shield with Teflon insulated conductors
- 4, 30 ga. Color Coded Twisted Teflon Leads 900mm long

**Available Options**

- **Capacity (lbs.)**
  - 10, 25, 50, 100: 12.7, 4-40 UNC, 4.3, 7.9
  - 250, 500, 1000: 19.1, 1/4-28 UNF, 17.8, 10.2

- **Threads**
  - Metric.
- **Compensated Temperature Range**
  - From -50°C up to 200°C.
- **Operating Temperature Range**
  - From -50°C up 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**
  - In-Line (Consult Factory).
    - Analog (4-20 mA; ±5 Vdc; ±10 Vdc).
    - Digital (RS-232; RS-485; CANbus; MODbus).
- **Calibration Range**
  - Special full scale ranges (Example: 75 lb).
- **Base Plates**
  - Base plate kits can be installed at factory for calibration.
- **Cable Length**
  - Cable length specified.
- **Cable Connector**
  - Add a connector to the end of the cable.
  - Consult factory for available connectors.
- **Custom Options**
  - Other unlisted customer requested options welcome.

**Modifications and Warranty**

**Modifications:** We recognize 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.**

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Datasheet P/N: 236774A

CE 0539
**Series RSL0850**

**Installation Guide**

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**Installation**

1. **CAUTION** - Do not over-torque the threads on installation (See chart, below). Over-torquing may result in damage to the unit.

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Thread</th>
<th>Max. Torque</th>
</tr>
</thead>
<tbody>
<tr>
<td>10, 25, 50, 100</td>
<td>4-40 UNC</td>
<td>64 In-Oz</td>
</tr>
<tr>
<td>250, 500, 1000</td>
<td>1/4-28 UNF</td>
<td>90 In-Lbs</td>
</tr>
</tbody>
</table>

2. **CAUTION** - Do not overload. Low capacity load cells may be damaged if squeezed or handled incorrectly.

3. **CAUTION** - Do not load on diaphragm. Only load utilizing the threads. Damage and/or false readings may occur if the diaphragm is loaded.

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