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A US Manufacturer of: Pressure, Temperature, Load/Force/Torque, and Displacement Sensors

# **Series RDE915**

Rod-End Tension and Compression Load Cell



## Description

The Series RDE915 load cells are rod-end configurations for both in-line tension or in-line compression force applications. Constructed of high strength tool steel, these bonded foil strain gaged force sensors are compact in size and provide reliable performance for demanding application conditions. The RDE915 features low deflection along with shock and vibration protection. In addition, these load cells are environmentally sealed. RDE915 load cells are used in many in-line tension applications such as actuator testing, aircraft and automotive component testing, and materials testing. Each unit is shipped with a 5 point calibration record traceable to NIST as standard.

OLBCL-000

### **Standard Features**

- · 0.25% Accuracy
- Ranges from 5,000 lbf to 25,000 lbf
- Low Defection
- In-Line Tension or In-Line Compression
- High Strength Tool Steel
- -65°F to 250°F Standard
- Operating Temperature
- Environmentally Sealed
- Shock and Vibration Resistant
- 5 Point Tension Calibration Record Traceable to NIST

## **Optional Features**

- Metric Versions
- Special Full Scale Ranges
- Special Calibrations
- · Dual or Triple Bridges
- -40°F to +400°F Operating Temperature

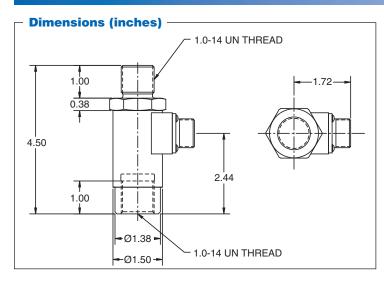
### Performance

**Standard Ranges** 5K, 10K, 15K, 20K, 25K lbs. Output 2mV/V nominal. Linearity 0.25% FSO. **Hvsteresis** 0.15% FSO. Repeatability 0.05% FSO.. **Temperature Effect on Zero** 0.002% FSO/°F. **Temperature Effect on Span** 0.002% Reading/°F. Zero Balance 1% FSO.

### **Environmental Characteristics**

**Operating Temperature Range** -40°F to 250°F. (-40°F to 400°F optional.) **Compensated Temperature Range** 70°F to 170°F. (-40°F to 400°F optional.)

# Series RDE915 Specifications



### **Mechanical Characteristics**

Static Overload Without Damage 150% FSO. Standard Calibration Tension only: 5 points (0, 50%, 100%, 50%, 0 of FSO). Optional Calibrations • Compression only: 5 points (No charge option) • Tension and Compression: 5 points in each direction • Special multipoint calibration (customer specified):

in tension or compression or both tension and compression.

### Material

High strength steel, environmentally sealed.

### **Electrical Characteristics**

Bridge Resistance 350 Ohms nominal. Excitation 20 Vdc or Vac. Insulation Resistance Greater than 5000 megaohms at 50 Vdc. Electrical Termination MS3102E-14S-5P.

### **Electrical Characteristics**

Connector Pins (Standard)			
A	+EXE	В	+SIG
С	- SIG	D	- EXE
E	NC		

Customer specified wiring codes are available.

# CE

### **Modifications and Warranty**

MODIFICATIONS: We realize transducer applications vary greatly and as such our designs are flexible. Choice of pressure port, 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: Stellar Technology 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 Stellar Technology'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 Stellar Technology. This warranty is in lieu of all other



ISO 9001/AS9100 Due to the nature of technology, changes are inevitable. For latest technical specifications, see our website.

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