

Series RDE900

Shackle Tension Load Cell

Standard Features

- Ranges from 5K lbs. to 120K lbs.
- In-Line Loading
- Small Diameter
- 0.20% Accuracy
- Welded Stainless Steel
- -40°F to 250°F Operation
- mV/V Output and Amplified Output Available



Standard Specifications

Performance

Capacities	From 5K lbs. FSO to 120K lbs. FSO (see table).
Output	2 mV/V nominal.
Linearity	0.20% FSO.
Hysteresis	0.15% FSO.
Repeatability	0.05% FSO.
Compensated Temperature Range	70°F to 170°F.
Operating Temperature Range	-40°F to 250°F.
Temperature Effect on Zero	0.005% FSO/°F.
Temperature Effect on Span	0.005% Reading/°F.
Zero Balance	1% FSO.
Bridge Resistance	350 Ohms nominal.

Mechanical Characteristics

Shackle Sizes	See table.
Calibration	5 Points (0, 50%, 100%, 50%, 0) Tension.
Max. Overload	150% FSO.
Construction	Welded stainless steel.

Electrical Characteristics

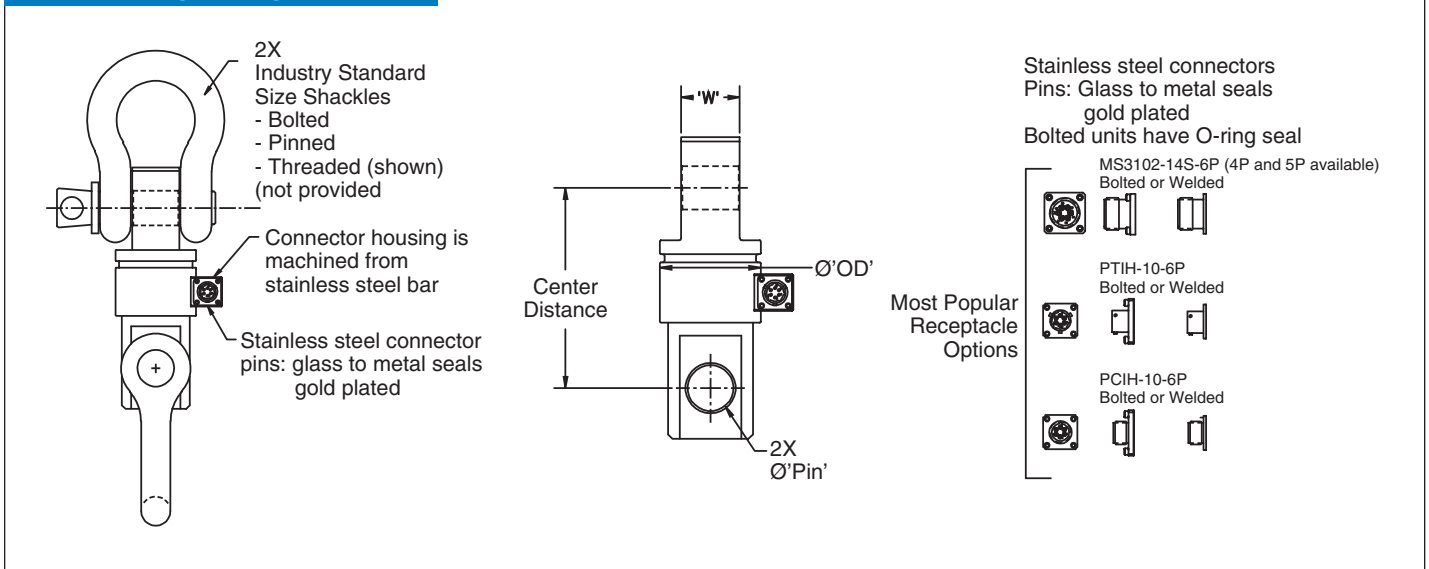
Excitation	10 Vdc or Vac.
Insulation Resistance	Greater than 5000 megaohms at 50 Vdc.
Electrical Termination	PTIH-10-6P Stainless Steel Connector or equivalent.
Connector Pins	A +EXE B +SIG C -SIG D -EXE E NC F NC

RDE900

Series RDE900 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below
Custom Designs Available

Dimensions (inches)



CAPACITY	CENTER DISTANCE	OD	Fits Shackle		
			*PIN	W	SIZE
2.5K, 5K	3.88	1.5	3/4	0.97	3-1/4 TON
10K, 15K	4.75	2.0	1	1.31	6-1/2 TON
20K, 25K	5.50	2.8	1-1/8	1.60	8-1/2 TON
35K	6.35	3.0	1-1/2	2.04	13-1/2 TON
50K, 60K	8.53	3.7	2	2.69	25 TON
80K, 100K	11.10	4.5	2-1/4	3.00	35 TON
120K	12.50	5.5	2-3/4	3.76	55 TON

NOTE: Shackle sizes not shown available. Load cells for any capacity may be ordered in a larger shackle size than shown.

Available Options

Compensated Temperature Range	Ranges from -40°F up to 400°F.
Operating Temperature Range	Ranges from -40°F up to 400°F.
Bridges	Dual bridges.
Amplifiers	Analog (4-20 mA; 0-5 Vdc; 0-10 Vdc). -or- Digital (RS-232; RS-485; CANbus; MODbus).
Calibration Range	Special full scale ranges (eg: 4000 lbs.).
Connectors	Consult factory for available connectors.
Connector Guard	Consult factory.
Intrinsically Safe	Consult factory.
Custom Shackle Sizes	Consult factory.
Connector Orientation	Radial, Tangential, Axial, Clockwise, Counterclockwise.
Cables	Cable or add a connector to the end of the cable. Consult factory for available connectors and cables.
Submersible Operation	Operations up to 16,000 feet deep.

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NOTES: When using a load cell the user must consider load ratings and fatigue life for long term use and structural integrity. Critical loading applications, especially overhead loading, must always be designed with safety redundant load paths. MODIFICATIONS: We realize load cell applications vary greatly and as such our designs are flexible. 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 warranties expressed or implied.

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