

Series RSL0990

Clevis Pin Load Cell

RSL0990

Standard Features

- Tension/Compression
- All Welded Stainless Steel
- -50° to 200° C Operation
- mV/V and Amplified Output
- Ranges to 200,000 Lbf
- Shock and Vibration Protection



Standard Specifications

Performance

Capacities	From 3000 lbs FSO to 200,000 lbs FSO (see table).
Output	2 mV/V nominal.
Accuracy	0.75% FSO BFSL nominal.
Linearity	0.75% FSO BFSL nominal.
Hysteresis	0.5% FSO typical.
Repeatability	0.10% FSO typical.
Compensated Temperature Range	20°C to 76°C.
Operating Temperature Range	-50°C to 120°C.
Temperature Effect on Zero	0.015% FSO/°C.
Temperature Effect on Span	0.009% Reading/°C.
Zero Balance	1% FSO.
Bridge Resistance	5000 Ohms nominal.

Mechanical Characteristics

Calibration	5 Points (0, 50%, 100%, 50%, 0) Tension.
Static Overload Capacity	150% FSO.
Construction	Welded stainless steel.

Electrical Characteristics

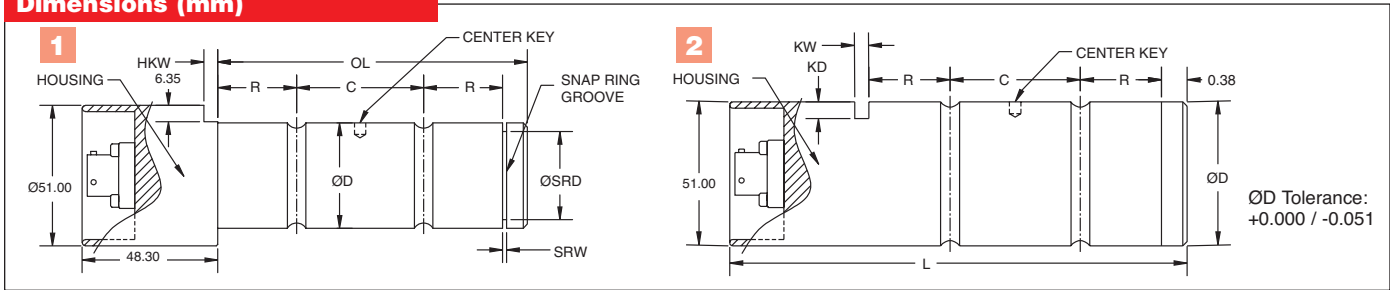
Excitation	10 Vdc or Vac.
Insulation Resistance	Greater than 5000 megohms at 50 Vdc at 20° C.
Electrical Termination	PTIH-10-6P, Stainless steel connector with O-ring Seal.

Connector Pins	A +EXE	D - EXE
	B +SIG	E N/C
	C - SIG	F N/C

Series RSL0990 Specifications

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

Dimensions (mm)



Capacity (Lbs)	Sensor ØD	R	C	OL	SRW	Circlip ØSRD	Housing HKW	Center ØKey
3000	12.7	12.7	19.1	53.4	0.99	11.89	5.1	n/a
6000	19.1	15.0	25.4	66.0	1.17	17.88	5.1	3.96
12,500	25.4	16.0	25.4	71.2	1.17	23.88	5.1	5.56
18,000	31.8	20.6	35.1	94.0	1.42	29.87	6.9	5.56
30,000	38.1	23.9	41.4	101.6	1.42	35.71	6.9	7.14

Capacity (Lbs)	Sensor ØD	R	C	L	Housing KW	KD	Center ØKey
50,000	50.8	25.4	50.8	169.0	6.76	9.70	7.14
75,000	63.5	31.8	63.5	194.0	6.76	12.70	7.14
100,000	69.9	37.3	68.3	213.0	10.31	12.70	10.31
125,000	76.2	36.6	76.2	223.0	10.31	16.00	10.31
160,000	88.9	44.5	88.9	254.0	13.49	16.00	13.49
200,000	101.6	57.2	101.6	299.0	13.49	19.10	13.49

Options

Dimensions	Custom dimensions welcome.
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 points). Special and custom calibrations.
Amplifiers	Internal and/or In-Line. • Analog (4-20 mA; 0-5 Vdc; 0-10 Vdc). • Analog (4-20 mA; intrinsically safe - ATEX and CSA). • Digital (RS-232; RS-485; CANbus; MODbus).
Calibration Range	Special full scale ranges (Example: 7400 lb).
Cables and Cable Length	Many types. Specify Cable length.
Connectors	Mounting Styles. Bolt on: Radial, tangential, axial or custom with O-ring Welded hermetic. Bolt on with back-up hermetic seal. Many connectors. (PT04, MS3102, and more) Connector guards.
Shackle Kit	Shackle, roller, and orientation bracket.
Sealing	Hermetic seal, O-ring Seal, or combinations.
Submersible	To depths of 4876 meters deep (sea water).
Custom Options	Other customer requested options welcome.



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.

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