

Series LDP990

Clevis Pin Load Cell



LDP990

Standard Features

- Tension/Compression
- All Welded Stainless Steel
- -65° to 250° F 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	70° to 170°F.
Operating Temperature Range	-65° to 250°F.
Temperature Effect on Zero	0.008% FSO/°F.
Temperature Effect on Span	0.005% Reading/°F.
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

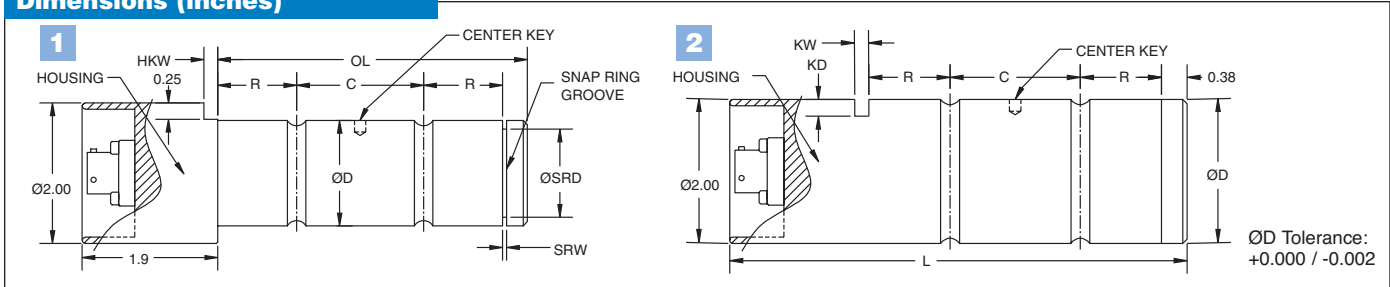
Excitation	10 Vdc or Vac.
Insulation Resistance	Greater than 5000 megaohms at 50 Vdc at 70° F.
Electrical Termination	PTIH-10-6P, Stainless steel connector with O-ring Seal.
Connector Pins	A +EXE D - EXE B +SIG E N/C C - SIG F N/C

Your "Application-SolutionSM" Source

Series LDP990 Specifications

Baseline Configuration Specs Represented.
Modifications Encouraged - See Below

Dimensions (inches)



1	Capacity (Lbs)	Sensor ØD	R	C	OL	Snap Ring SRW	ØSRD	Housing HKW	Center ØKey
	3000	0.500	0.50	0.75	2.1	0.039	0.468	0.20	n/a
	6000	0.750	0.59	1.00	2.6	0.046	0.704	0.20	0.156
	12,500	1.000	0.63	1.00	2.8	0.046	0.940	0.20	0.219
	18,000	1.250	0.81	1.38	3.7	0.056	1.176	0.27	0.219
	30,000	1.500	0.94	1.63	4.2	0.056	1.406	0.27	0.281

2	Capacity (Lbs)	Sensor ØD	R	C	L	Housing KW	KD	Center ØKey
	50,000	2.00	1.00	2.00	6.63	0.266	0.38	0.281
	75,000	2.50	1.25	2.50	7.63	0.266	0.50	0.281
	100,000	2.75	1.47	2.69	8.38	0.406	0.50	0.406
	125,000	3.00	1.44	3.00	8.75	0.406	0.63	0.406
	160,000	3.50	1.75	3.50	10.00	0.531	0.63	0.531
	200,000	4.00	2.25	4.00	11.75	0.531	0.75	0.531

Options

Dimensions	Custom dimensions welcome.
Compensated Temperature Ranges	From -65° to 400° F.
Operating Temperature Ranges	From -65° to 400° F.
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: 740 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 16,000 feet deep (sea water).
Custom Options	Other customer requested options welcome.



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Notes, Modifications, Warranty

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.



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

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