



Series CNR950

Rugged, Compact Canister Compression Load Cell



Description

The Series CNR950 load cells are compact canister designs for compression force applications. These load cells incorporate an integral spherical load button. The CNR950 is constructed of welded stainless steel for the most demanding application environments. Hermetic bolt on or welded on stainless steel electrical connectors are standard for most sizes. Additional features include shock and vibration protection and each unit is shipped with a 5 point calibration record traceable to NIST, both as standard.

Standard Features

- Ranges from 2000-2,000,000 lbs.
- In-Line Loading
- Compact Size
- 0.25% Accuracy
- Welded, Stainless Steel Construction
- -65°F to 250°F Operation
- mV/V Output

Optional Features

- Amplified Outputs
- Threaded Mounting Features
- Special Calibrations
- Multiple Bridges
- -320°F to 400°F temperature ranges (mV/V unit)
- Integral high level output (analog or digital) 50K or greater

Performance

Ranges

2K - 2000K lb, see chart on page 2.

Output

2 mV/V nominal.

Accuracy

0.25% FSO BFSL.

Linearity

0.15% FSO typical.

Hysteresis

0.15% FSO typical.

Repeatability

0.05% FSO.

Compensated Temperature Range

70°F to 170°F.

Operating Temperature Range

-65°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

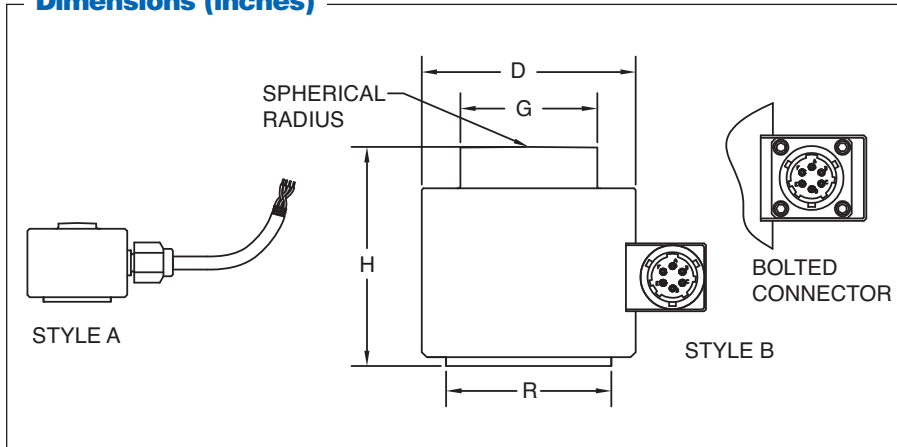
350 or 700 Ohms nominal.

Series CNR950

Specifications

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

Dimensions (inches)



Notes:

1. Cables available on all capacities.
2. Welded connectors available on all Style B capacities.
3. Amplified outputs are optional.
4. 2X lifting eye threads at 180° provided on 500K lb capacity and higher units.

Capacity (lbs.)	Height H	Diameter Overall D	Diameter Button G	Diameter Base R	Style	Connector Style
2K, 5K	0.75	0.88	0.28	0.38	A	CABLE
10K	1.00	1.19	0.56	0.70	A	CABLE
25K	1.37	1.75	0.85	1.07	A	CABLE
50K	1.80	2.19	1.18	1.38	B	WELDED
100K	2.50	2.75	1.66	1.75	B	WELDED
250K	3.88	3.85	2.62	2.80	B	WELDED
500K	5.75	4.44	3.60	3.81	B	WELDED
1000K	7.50	6.45	5.06	5.35	B	BOLTED
2000K	11.50	9.50	7.00	7.00	B	BOLTED

Mechanical Characteristics

Calibration

Standard calibration is 5 pts (0, 50%, 100%, 50%, 0 of Range) compression.

Maximum Overload Without Damage

150% Range.

Construction

Welded stainless steel.

Electrical Characteristics

ANALOG OUTPUTS

Excitation

10 VDC or VAC

Insulation Resistance

Greater than 5000 MOhms at 50 Vdc.

Electrical Termination

See table above.

Cables

Cables for 2K, 5K are 4 conductor, 30 AWG shielded, color coded.

Cables for 10K, 25K are 4 conductor, 24 AWG shielded, color coded.

Electrical Characteristics

Wiring

Units with connector	Units with cable
Connector Pins	Cable Wire
A +EXC	RED +EXC
B +SIG	GREEN +SIG
C -SIG	WHITE -SIG
D -EXC	BLACK -EXC
E,F NC	

Customer specified wiring codes are available



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 warranties expressed or implied.



ISO 9001/AS9100

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

237 Commerce Drive • Amherst, NY 14228 • USA

Tel: 716.250.1900 • Fax: 716.250.1909

Web: stellartech.com • Email: info@stellartech.com

Copyright © 2015 STI • All Rights Reserved
Datasheet P/N: 250597C DCN 13014