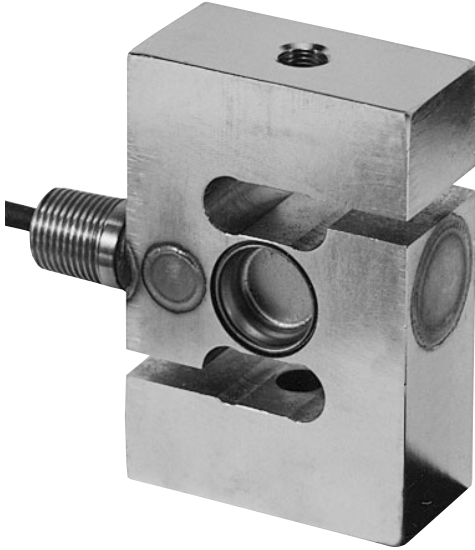


Cardinal LOAD CELLS

SERIES "ZX" LOAD CELLS FOR - TENSION APPLICATIONS



- Capacities from 1134 kg to 9072 kg
- Waterproof construction
- Stainless steel models for corrosion resistance
- 9 m integral shielded cable
- 2 year warranty

The Series "ZX" tension load cells are ideally suited for single or multiple load cell tension applications. Simplicity of design permits their use in a wide variety of configurations. These load cells are available in capacities from 113 kg to 9072 kg.

When caustic or corrosive environments are encountered, the Series "ZX" is ideal. Manufactured of stainless steel, it offers the ultimate in protection.

The ZX-250, 500 and 1000 load cells are potted with a proprietary sealant that provides for superior water protection, and at the same time, remains flexible over the life of the load cell. This special compound protects the load cell strain gages, and over a broad temperature range has no effect on the

load cell's precision accuracy. Load cells ZX-2500 and up have the gage cavity sealed by a welded stainless steel cup.

Each load cell has a threaded hole on each end for hanger assemblies, and a 9 m integral multiconductor cable secured by a compression and strain relief seal.

SPECIFICATIONS

Mechanical Data

Rated Capacity, (R.C.) E_{max}	113, 226, 450, 1134, 1360, 2268, 4536 & 9072 kg
Minimum Dead Load	4.5 kg
Safe Load Limit	150% R.C.
Ultimate Load	300% R.C.
Deflection at R.C.	0.2 to 0.6 mm
Spring Element Material	17-4 Stainless Steel
Net Weight	.55 kg to 6.4 kg

Certificate Data

Issuing Body	NTEP
Certificate Number	92-192A2
Accuracy Class	III/IIIL
Maximum Number of Load	
Cell Intervals, n_{max}	5000/10000
Single/Multiple	S/M
Minimum Load Cell	
Verification Interval V_{min}	
III	0.012, 0.024, 0.046, 0.12, 0.28, 0.46, 0.9, & 1.8 kg
IIIL	0.009, 0.018, 0.036, 0.09, 0.11, 0.18, 0.36, & 0.72 kg

Electrical Data

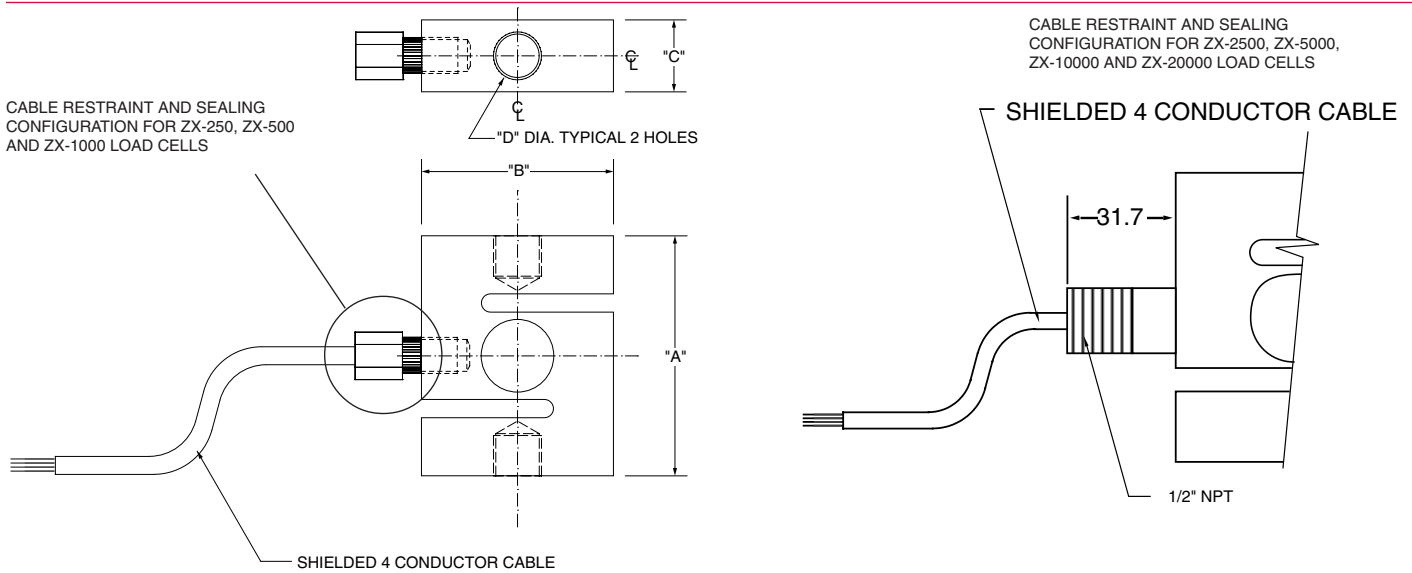
Rated Output	$3 \pm 10\%$ mV/V
Excitation Voltage, Recommended	12 VDC
Excitation Voltage, Maximum	20 VDC
Cable Length	9 m
Terminal Resistance	
Excitation	389 ± 6 ohms
Signal	350 ± 5 ohms
Zero Load Output	$\pm 1\%$ R.C.
Insulation Resistance	>5000 meg ohms @ 50 VDC

Environmental Data

Temperature Compensation	
Range (8)	-10° to $+40^{\circ}$ C
Operating Temperature Range	-25° to $+50^{\circ}$ C
Construction & Protection	
Code	CP-67 HU, IP67, 2500 - 20000 CP-55 HU, 250 - 1000
Barometric Pressure Effect on Zero Load Output	<1 v (min)/1kPa

Color Code

+ Excitation	Green	- Excitation	Black
- Signal	White	+ Signal	Red



DIMENSIONAL INFORMATION

MODEL	CAPACITY	"A"	"B"	"C"	"D"
ZX-250	113 kg	76.2	49.5	11.9	1/4" - 28 NF
ZX-500	226 kg	76.2	49.5	23.8	1/2" - 20 NF
ZX-1000	450 kg	76.2	49.5	23.8	1/2" - 20 NF
ZX-2500	1134 kg	107.9	74.7	36.8	1/2" - 20 NF
ZX-3000	1360 kg	107.9	74.7	36.8	1/2" - 20 NF
ZX-5000	2268 kg	107.9	74.7	36.8	3/4" - 16 NF
ZX-10000	4536 kg	107.9	87.33	36.8	3/4" - 16 NF
ZX-20000	9072 kg	165.1	112.8	49.23	1 1/4" - 12 NF

Series "ZX" load cells are constructed of stainless steel and supplied with 9 m of cable.

All dimensions are in mm unless otherwise noted.



This load cell meets all requirements of Handbook 44, issued by the National Institute of Standards and Technology and have been issued the NTEP Certificate of Conformance No. 92-192A2.



Cardinal Scale reserves the right to improve, enhance and modify features and specifications without prior notice.

ELECTRICAL INFORMATION

