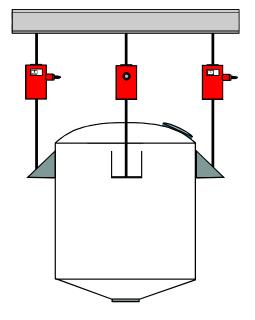
Precision Force and Weight Measurement Technologies



Model T2P1 Load Cell

Applications:

Tensile Testing Crane Scales Grain Silos



- Capacity Range 20,000 to 100,000 Pounds
- Tension Service
- Operational: -30° to +175°F
- Low Deflection
- Environmentally Sealed
- FM and CSA Approved



Product Description

T2P1 load cells, developed by BLH Electronics, are designed for various types of weighing and force measurement. T2P1 load cell construction uses all the advantages of SR-4 strain gages.

T2P1 Load Cells are fabricated with high strength 'column type' elements that provide output signals of 2 mV/V at rated capacity. Each cell is designed for minimum deflection and maximum safe overload during periods of full capacity tension.

Double diaphragm fabrication and gage linearizing combine to offer precision performance and long term reliability. Low deflection and superior sealing guarantee trouble-free operation. Relatively low mass and small deflection under load, produce excellent frequency response. Overall, T2P1 cells perform superbly in many environments where other transducers cannot.



BLH Electronics, Inc. An ISO 9001 Registered Company

Product Specifications and Outline Dimensions

Performance

Capacity Rated Output Combined Error (Hys.& Lin.) Repeatability - %RO Creep - %RO (20 min.)

Electrical

Recommended Excitation Maximum Excitation Zero Balance - %RO Input Resistance Output Resistance Number of Bridges Electrical Connection

Temperature

Safe Range Compensated Range Effect on Zero Balance Effect on Rated Output

Adverse Load Ratings

Safe Overload Ultimate Overload 20,000 - 100,000 lb 2mV/V +/-0.1% +/- 0.03% full scale 0.02 0.02

10V ac-dc 20V ac-dc 1.0 350 +/-3.5 ohms 350 +/-3.5 ohms single 35 foot cable

-30 to 175°F +15 to +115°F 0.0015 %RO/°F 0.0008% Load/°F

150% Full Capacity 300% Full Capacity

Approvals

 FM (Factory Mutual)
 3611 (Class I, II, III; Div.1,2; Groups A-G)

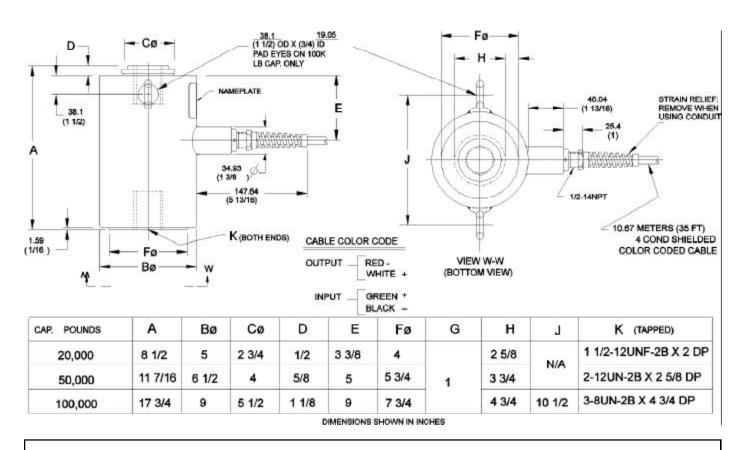
 CSA
 C22.2 (Class I, II, III; Div.1,2; Groups A-G)

BLH is continually seeking to improve product quality and performance. Specifications may change accordingly.

Many performance specifications are proven on a statistical sample basis.

Mechanical Data

Capacity (lb)	20,000	50,000	100 K
Weight (lb)	25	55	160
Deflection - inches	0.0075	0.0100	0.0090
Deflection - mm	0.191	0.254	0.2286
Nat Freq. (Hz) at EFF.WT (lb)	3500	3100	2100
	2	5	25



MAIN OFFICE 75 Shawmut Road Canton, MA 02021 Tel: (781) 821-2000 Fax: (781) 828-1451 http://www.blh.com

BLH Electronics, Inc.

ISO 9001 Registered U.S.A. Facility 41 Horner Ave, Unit 5 Toronto, Ontario M8Z 4X4 Tel: (416) 251-2554 Fax: (416) 251-2690 Toll Free: (800) 567-6098