

# **Precision Force and Weight Measurement Canisters**

#### **FEATURES**

• Capacity range: 500 to 100K lb (227 to 45K kg)

· Compact, rugged

• Operational: -30°F to +175°F

Low deflection

· Environmentally sealed

• FM and CSA approved

#### **APPLICATIONS**

Dynamometers

• Tensile testing

• Tension and compression weighing

### **DESCRIPTION**

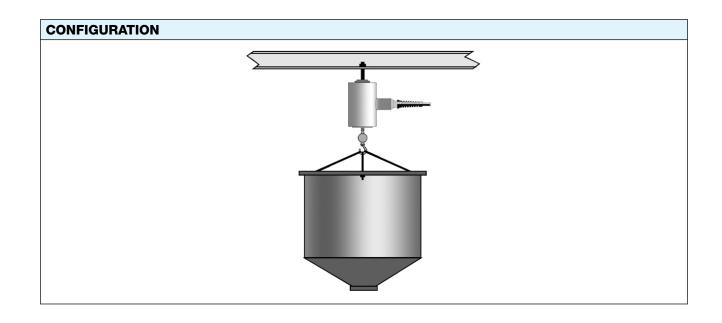
T3 type load cells, developed by BLH Nobel are designed for various types of weighing and force measurement. Construction of the U3 and T3 load cell utilizes all of the advantages of SR-4® strain gages. All cells are fabricated with high strength 'ring' type elements to provide an output signal of 3mV/V at rated capacity. Each cell is designed for minimum deflection and 150% safe overload without damage. U3G1 and U3G2 universal load cells are shipped with calibration data verifying accuracy in both tension and compression modes. U3G2 and T3P2 cells







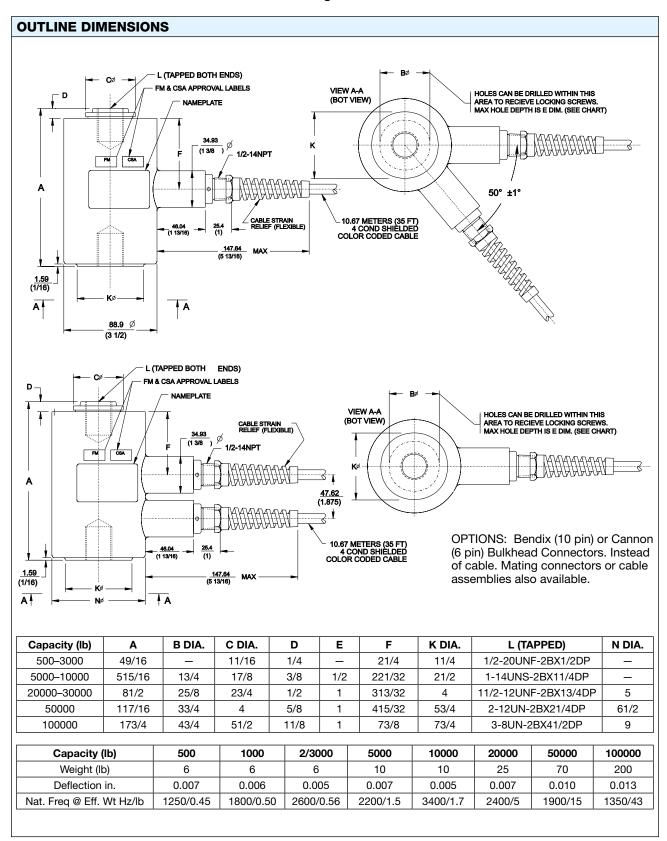
contain a second bridge. The second bridge can be used simultaneously with the first bridge for dual output or be reserved as a backup in case of failure.



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SPECIFICATIONS			
PARAMETER	VALUE		
PERFORMANCE			
Туре	UЗ	Т3	
Capacities	500, 1K, 2K, 3K, 5K, 10K, 20K, 50K, and 100K lb (227, 454, 907, 1.4K, 2.3K, 4.5K, 9.1K, 13.6K, 22.7K, and 45.4K kg)		
Rated output (RO)	3 mV/V – 0.25%	3 mV/V ± 0.1%	
Non-Linearity	0.10% RO	0.05% RO	
Hysteresis—% RO	0.02% 1–100K lb; 0.05% 500 lb	0.02% 1–50K lb; 0.05% 500 lb	
Repeatability	0.02% RO	0.02% RO	
Creep (20 min.)	0.03% RO	0.03% RO	
Variance Ten.—Cmp	0.015 mV/V max.	NA	
ELECTRICAL			
Recommended Excitation	10 VAC-DC		
Zero Balance	1.0% RO		
Input Resistance	350 Ω ±3.5 Ω		
Output Resistance	350 Ω ±3.5 Ω		
Number of Bridges	single/double		
Min. Insulation Resistance MΩ (@ 50 VDC)	_		
Bridge to Ground	5000		
Shield to Ground	2000		
Electrical Connection	10 ft or 35 ft cable		

PARAMETER	VALUE			
TEMPERATURE				
Safe Range	−30 to +175°F			
Compensated Range	+30 to +130°F			
Effect on Zero Balance	0.0015% RO/°F			
Effect on Rated Output	0.005% load/°F	0.0008% load/°F		
ADVERSE LOAD RATINGS				
Safe Overload	150% RO			
Max Overload	300% RO			

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

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Vishay Precision Group, Inc.

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