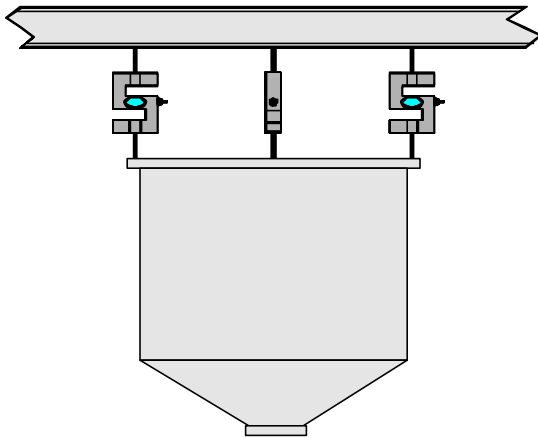
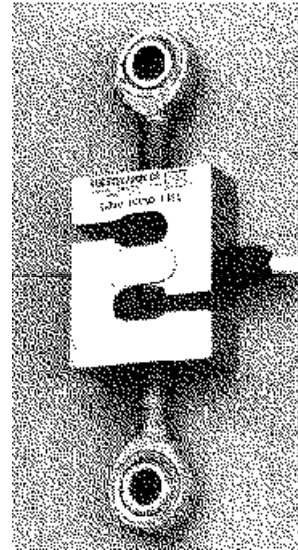


Applications:

Bin and Hopper Tension Systems
Mechanical Scale Conversion
Tension Force Measurement
OEM Scale Construction



- Capacities: 200 - 5000 Pounds
- Stainless Steel for Corrosion Resistance
- Integral 25 Foot Cable Simplifies Construction
- High Accuracy: 0.02% Repeatability
- Highest Quality Construction
- FM and CSA Approvals



Shown with optional spherical rod ends

Product Description

The U3SB S-type Load Cell line offers a cost-effective solution to tension measuring, weigh system applications. The compact size of the U3SB makes it ideal for applications where space is at a premium. Stainless steel construction means the U3SB will stand up to washdown, rain, and other environmental challenges typically found in the food and pharmaceutical industries. U3SB cells incorporate a 25-foot, four conductor cable for maximum flexibility in mounting and positioning.

The U3SB is available in seven capacities from 200 to 5000 pounds. In addition, a complete line of accessories is available, including tension flexure rods, spherical rod end bearings, conduit adapters, and load buttons.

Thermo BLH
An ISO 9001 Registered Company

U3SB Specifications and Outline Dimensions

Performance

Capacities	200 - 5000 pounds
Rated Output (RO)	3.0 mV/V, +/-0.1%
Combined Error	0.05% RO
Repeatability	0.02% RO
Creep	0.02% RO (5 min.)

Temperature

Safe Range	-65 to 200°F
Compensated Range	0 to 150°F
Effect on Zero Balance	0.0015%RO/°F
Effect on Span	0.0025%RO/°F

Adverse Load Ratings

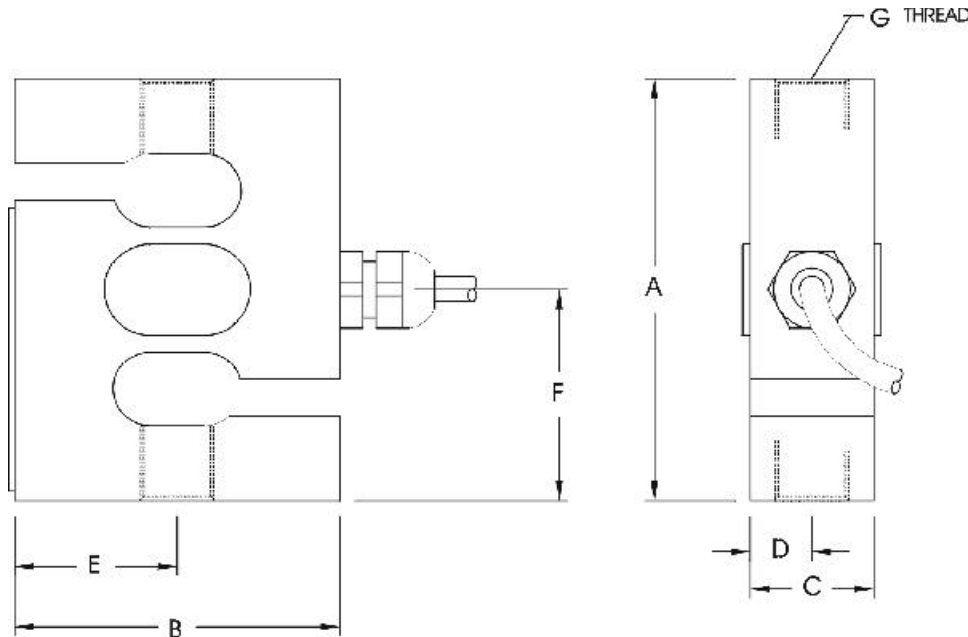
Safe Overload	150% rated capacity
Ultimate Overload	300% rated capacity

Electrical

Recommended Excitation	10 Vdc/Vac
Maximum Excitation	15 Vdc/Vac
Zero Balance	1% RO
Input Resistance	350 +/-3.5 ohms
Output Resistance	350 +/-3.5 ohms
Insulation Resistance:	
Bridge to Ground	5000 megohms
Shield to Ground	2000 megohms
Cable Connection	25-ft, 4-conductor shielded cable

Approvals

FM (Factory Mutual)	3611 (Class 1, 11, 111; Div.1,2; Groups A-G)
CSA	C22.2 (Class 1, 11,111; Div.1,2; Groups A-G)



Capacity Pounds	A	B	C	D	E	F	G
200	62.1 (2.445)	50.0 (1.97)	17.8 (0.70)	8.9 (0.35)	25.0 (0.985)	31.0 (1.222)	3/8-24 UNF-2B
300	62.1 (2.445)	50.0 (1.97)	17.8 (0.70)	8.9 (0.35)	25.0 (0.985)	31.0 (1.222)	3/8-24 UNF-2B
500	73.2 (2.88)	56.4 (2.22)	24.0 (0.945)	12.0 (0.472)	28.2 (1.11)	36.7 (1.44)	1/2-20 UNF-2B
1000	73.2 (2.88)	56.4 (2.22)	24.0 (0.945)	12.0 (0.472)	28.2 (1.11)	36.7 (1.44)	1/2-20 UNF-2B
2000	73.2 (2.88)	56.4 (2.22)	24.0 (0.945)	12.0 (0.472)	28.2 (1.11)	36.7 (1.44)	1/2-20 UNF-2B
3000	100.2 (3.945)	88.14 (3.47)	36.7 (1.445)	18.34 (0.722)	44.1 (1.735)	50.1 (1.972)	1/2-20 UNF-2B
5000	100.2 (3.945)	88.14 (3.47)	36.7 (1.445)	18.34 (0.722)	44.1 (1.735)	50.1 (1.972)	3/4-16 UNF-2B

All dimensions shown in mm (inches)

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

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