

Nickel Plated Steel S-Type Load Cells





FEATURES

- Capacitiy range: 50 to 20K lb (22.7 to 9K kg)
- Designed for single or multiple load cell applications
- · Nickel-plated, alloy steel construction
- Integral 20-foot cable for maximum mounting flexibility
- Sealed to IP67 standards
- · Tension and compression measurement
- NTEP certified
- FM approved

DESCRIPTION

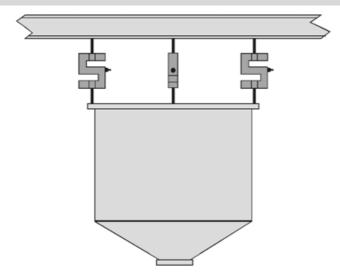
U3SB-A S-Type Load Cells quickly and cost-effectively convert any tank, bin, or hopper into a weighing scale system. The compact size of the U3SB-A makes it ideal for applications where space is at a premium. Superior nickel plating provides excellent environmental protection for general, indoor, factory installations.

The U3SB-A is available in sixteen capacities from 50 to 20K pounds. Each cell has a 20-foot, four conductor cable for maximum flexibility in mounting and positioning.

APPLICATIONS

- Bin and hopper weighing systems
- Mechanical scale conversion
- Tension force measurement
- OEM scale construction
- Truck scale conversions
- Level and inventory measurement

CONFIGURATION



Nickel Plated Steel S-Type Load Cells



SPECIFICATIONS

Performance

Rated Capacities (Ib) 50, 100, 150, 250, 300, 500, 750

1K, 1.5K, 2K, 2.5K, 3K, 5K, 10K,

15K, and 20K lb

Rated Output (R.O.) $3.0 \text{mV/V} \pm 0.25\%$ Repeatability 0.01% R.O. Combined Error 0.02% R.O. Zero Balance 1.0% R.O. Creep (20 minutes) 0.030% R.O. Temperature Effects (compensated range): On Zero Balance

On Span

0.0008% RO/°F 0.0006% Load/°F

Electrical

Recommended Excitation 10Vdc (15Vdc max.) InputResistance 343 - 450 ohms Output Resistance 49 - 355 ohms Cable Connection 20-ft. 4-conductor shielded cable

Temperature

Storage Range -65 to +185°F Operating Range 0 to +150°F Compensated Range +14 to +104°F **Adverse Load Ratings**

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

Material

nickel plated alloy steel Material

Cable Fitting stainless steel

Sealing

IP67 Environmental Class

Deflection

50 - 150 lb 0.010 - 0.015 inches

250 - 300 lb 0.010 inches

500 - 1.5K lb 0.010 - 0.012 inches

2K - 3K lb 0.012 inches 5K lb 0.017 inches 10K - 20K lb 0.025 inches

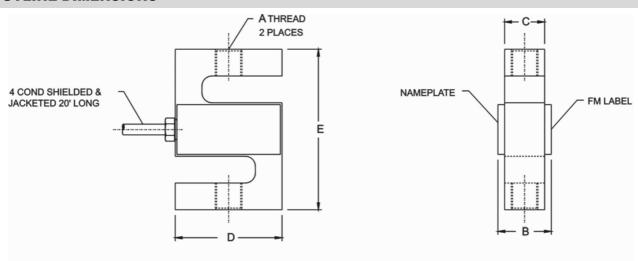
Approvals

NTEP Class III, IIIL 5,000 single, 10,000 multiple

FM (Factory Mutual) Class I, II, III; Div 1, 2

Groups A-G

OUTLINE DIMENSIONS



WIRING				
FUNCTION	COLOR			
+EXCITATION	RED			
-EXCITATION	BLACK			
+OUTPUT	GREEN			
-OUTPUT	WHITE			

CAPACITY (lbs)	Α	В	С	D	E
50-150	1/4-28 UNF-2B	.65	.50	2.00	2.50
250-300	3/8-24 UNF-2B	.75	.50	2.00	3.00
500-2K	1/2-20 UNF-2B	1.00	.75	2.00	3.00
2.5K-3K	1/2-20 UNF-2B	1.25	1.00	2.00	3.00
5K	3/4-16 UNF-2B	1.25	1.00	3.00	4.25
10K		1.25	1.00	3.50	4.75
15K		1.50	1.25	4.00	5.50
20K	1 1/4-12 UNF-2B	2.25	2.00	5.00	7.00

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