

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

APPLICATIONS

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

DESCRIPTION

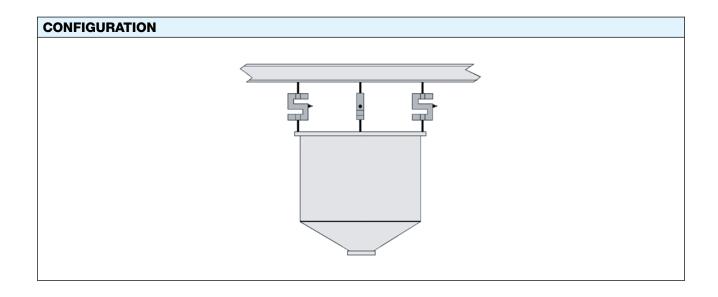
U3SB-A S-Type Load Cells quickly and cost-effectively convert any tank, bin, or hopper into a weighing scale system. The compact size of the U3SB-A makes it ideal for applications where space is at a premium. Superior nickel plating provides excellent environmental protection for general, indoor, factory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







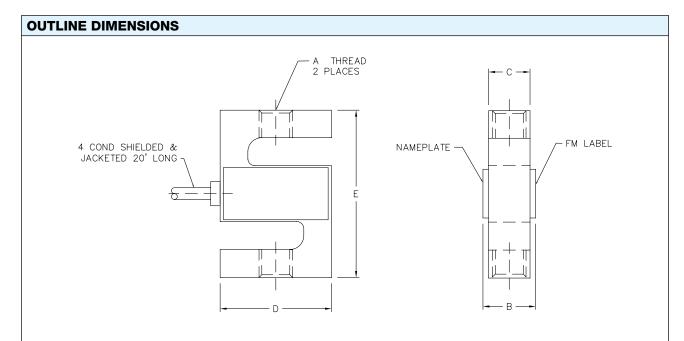
The U3SB-A is available in sixteen capacities from 50 to 20K pounds. Each cell has a 20-foot, four conductor cable for maximum flexibility in mounting and positioning.



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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	0.65	0.50	2.00	2.50
250–300	3/8-24 UNF-2B	0.75	0.50	2.00	3.00
500–1.5K	1/2-20 UNF-2B	1.00	0.75	2.00	3.00
2K-3K	1/2-20 UNF-2B	1.25	1.00	2.00	3.00
5K-10K	3/4-16 UNF-2B	1.25	1.00	3.50	4.75
15K	1-14 UNF-2B	1.50	1.25	4.00	5.50
20K	1 1/4-12 UNF-2B	2.12	2.00	5.00	7.00



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SPECIFICATIONS				
PARAMETER	VALUE			
PERFORMANCE				
Rated capacities (lb)	50, 100, 150, 250, 300, 500, 750 1K, 1.5K, 2K, 2.5K, 3K, 5K, 10K, 15K, and 20K lb			
Rated output (RO)	3.0 mV/V ± 0.25%			
Repeatability	0.01% RO			
Combined error	0.02% RO			
Zero balance	1.0% RO			
Creep (20 minutes)	0.030% RO			
Temperature effects* on zero balance	0.0008% RO/°F			
Temperature effects* on span	0.0006% Load/°F			
ELECTRICAL				
Recommended excitation	10 VDC (15 VDC max.)			
Input resistance	343-450 Ω			
Output resistance	349–355 Ω			
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			

PARAMETER	VALUE				
ADVERSE LOAD RATINGS					
Safe overload	150% rated capacity				
Ultimate overload	300% rated capacity				
MATERIAL					
Material	nickel plated alloy steel				
Cable fitting	stainless steel				
SEALING					
Environmental class	IP67				
DEFLECTION					
50-150 lb	0.010-0.015 in				
250-300 lb	0.010 in				
500–1.5K lb	0.010-0.012 in				
2K-3K lb	0.012 in				
5K lb	0.017 in				
10K-20K lb	0.025 in				

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

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^{*} Compensated range



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