42U-43U UNIVERSAL LOAD CELL



FEATURES:

- Capacities: 5 to 250 K lbs
- Environmental protection: IP68 (DIN 40.050)
- Material: Epoxy coated alloy steel
- Hermetically sealed

APPLICATIONS:

- Railroad Scales
- Truck and Floor Scales, Platform Scales
- Suspended Silos, Tanks and Hoppers
- Silos, Tanks and Hoppers
- Weighbridges

DESCRIPTION:

The 42U and 43 U canister is a low profile design specifically for platforms and for universal, tension and compression applications where space is limited or special mounting required.

Hermetic sealing offers excellent protection from moisture and provides long-term stability and reliability.

APPROVALS:

Revere Transducers
an SI Technologies company

42U- 43U: SPECIFICATIONS

Parameter	Symbol	Unit of Measure	Specification	
			Imperial	
Capacities	E_{max}	lb	5K, 10K, 20K, 50K, 100K, 200K, 250K	
Accuracy Class			D3	
Accuracy Class According to			Non-NTEP	
Potentially Explosive Atmospheres options			Not available	
Maximum number of Verification Intervals	n_{lc}			
Minimum Verification Interval	v_{min}			
Combined Error[1]		±%S	0.05	
Creep error (20 minutes)		±%S	0.03	
Temperature Effect on Zero	TC_O	±%FS/5°C (/°F)	0.0135 (0.0015)	
Temperature Effect on Output	TC_S	±%S/5°C (/°F)	0.0072 (0.0008)	
Rated Output	FS	mV/V	Model 42: 2 ± 0.002	Model 43U: 3 ± 0.003
Compensated Temperature Range	T_{cps}	°C (°F)	-10 to +40 (+14 to +104)	
Operating Temperature Range	T_{opr}	°C (°F)	-53 to +93 (-65 to +200)	
Environmental Protection			IP68	
Cable Length		m (ft)	3 (10)	
Cable Type			4 Wire Shielded, shield is not connected to load cell body	
Zero Balance		±%FS	1.0	
Safe Load Limit	E_{lim}	$\%E_{max}$	150	
Ultimate Load	E_{ult}	$\%E_{max}$	Model 42U: 300	Model 43U: 200
Safe Side Load Limit		$\%E_{max}$	10	
Excitation Voltage		Volts AC or DC	10 Recommended, 15 Maximum	
Input Resistance		Ohms	350.0 ± 3.5	
Output Resistance		Ohms	350.0 ± 3.5	
Insulation Resistance at 50 VDC		Mega Ohms	>5000	
Element Material		ASTM	Epoxy coated alloy steel	

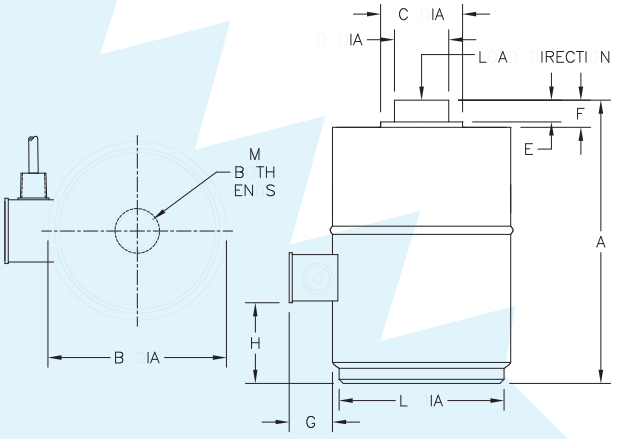
Notes:
- We continually improve our products and therefore specifications are subject to change without notice.
- The accuracy may be affected if 4-wire load cell cables are shortened.

[1] Includes the effects of Non-Linearity and Hysteresis.

Wiring color code:

Excitation +	Red
Excitation -	Black
Output +	Green
Output -	White
Shield	Transparent

	Dimensions in inches				
Capacity	5 -10K	20K	50 K	100K	200-250K
A	5.94	8.50	11.44	11.44	16.25
B	3.50	5.00	6.50	6.50	8.00
C	1.63	2.44	2.98	3.50	4.45
D	1.40	2.21	2.76	3.29	4.21
E	0.15	0.15	0.15	0.15	0.15
F	0.50	0.50	0.77	0.77	0.80
G	1.19	1.29	1.40	1.40	1.34
H	0.75	0.75	1.50	1.50	1.50
M deep	1-14 UNS 1.25	1.5-12 UNF 2.00	1.5-12 UNF 2.00	2-12 UNF 2.25	2.5-12 UNF 2.75



Attention: All dimension tolerances according to ISO 2768m, unless otherwise specified.

Mounting:
Correct mounting of the load cells is essential to ensure optimum accuracy and performance. Further information is available on request.

No Mounts available for 42U and 43U.

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