

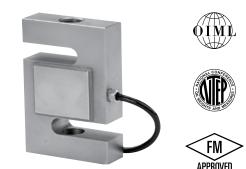
S-Beam Load Cell

FEATURES

- Rated capacities of 25 to 20,000 pounds 50 kilograms to 10 metric tons
- · Designed for single or multiple load cell applications
- Constructed of high quality alloy tool steel
- Nickel plated for outstanding corrosion resistance
- Sensorgage[™] sealed to IP67 standards
- Trade certified for NTEP Class III: 5000d, IIIL: 10000d and OIML R-60 3000d available
- Factory Mutual System Approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!).
- Optional
 - Stainless steel version is Model 60050

APPLICATIONS

- Tank, bin and hopper weighing
- · Level and inventory monitoring
- Truck scale conversions
- Tension and compression measurements



DESCRIPTION

Model 60001 is a tension-compression load cell with a humidity-resistant coating and shielded cables, which enable use in harsh environments while maintaining operating specifications. Additional sense wires compensate for changes in lead resistance due to temperature change and/or cable extension.

Ideally suited for lever conversions, hanging scales, force measurement and a wide range of other industrial applications. Nickel-plated for outstanding corrosion resistance.

OUTLINE DIMENSIONS in inches [millimeters]											
Viring + Excitation Red - Excitation Black + Output Green - Output White											
CAPACITY	Α	В	C	D	E	DEFLECTION	WEIGHT				
25–200	1/4-28 UNF-2B	0.65	0.50	2.00	2.50	0.015-0.010	4.0				
250-300	3/8-24 UNF-2B	0.75	0.50	2.00	3.00	0.010	4.0				
500–2k	1/2-20 UNF-2B	1.00	0.75	2.00	3.00	0.010-0.012	6.5				
2.5k–4k	1/2-20 UNF-2B	1.25	1.00	2.00	3.00	0.012	6.5				
5k	3/4-16 UNF-2B	1.25	1.00	3.00	4.25	0.017	6.5				
10k	3/4-16 UNF-2B	1.25	1.00	3.50	4.75	0.025	6.5				
15k	1-14 UNF-2B	1.50	1.25	4.00	5.50	0.025	9.0				
20k	1-1/4-12 UNF-2-B	2.25	2.00	5.00	7.00	0.025	9.0				
[50–100 kg]	M8.0 x 1.25-6H	[16.5]	[12.7]	[50.8]	[63.5]	[0.03-0.004]	[0.8]				
[250 kg–1T]	M12 x 1.75-6H	[25.4]	[19.1]	[50.8]	[76.0]	[0.004]	[1.8]				
[2.5T]	M20 x 1.5-6H	[31.8]	[25.4]	[76.2]	[108.0]	[0.008]	[2.9]				
[5T]	M20 x 1.5-6H	[31.8]	[25.4]	[88.9	[120.7]	[0.011]	[2.9]				
[10T]	M30 x 2.0-6H	[57.2]	[50.8]	[127.0]	[177.8]	[0.011]	[4.0]				
Capacities are in pounds [kg/T]. Deflection is $\pm 10\%$. Certified drawings are available.											

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S-Beam Load Cell

SPECIFICATIONS					
PARAMETER		VALU	UNIT		
Rated capacity—R.C. (E _{max})	1k,	, 75, 100, 150, 200 1.5k, 2k, 2.5k, 3k, 100 kg, 250 kg, 50	lbs kg/metric tons		
NTEP/OIML accuracy class	NTEP III	NTEP IIIL	Standard	OIML R60	
Maximum no. of intervals (n)	5000 single	10000 single		3000*	
Y = E _{max} /V _{min}	NTEP Cert.	No. 86-043A1	Maximum available		
Rated output-R.O. lbs		3.0	mV/V		
Rated output tolerance lbs	2	5–3k: +25 / –10	%		
Rated output-R.O. kg		3.0	mV/V		
Rated output tolerance kg	50	kg–1T: +25 / –10	%		
Zero balance		1.0	±% FSO		
Combined error	0.02	0.02	0.03	0.02	±% FSO
Non-repeatability		0.01	±% FSO		
Creep error (30 minutes)	0.03	0.025	0.03	0.017	±% FSO
Temperature effect on zero	0.0010	0.0010	0.0015	0.0010	±% FSO/°F
Temperature effect on output	0.0008	0.0008	0.0008	0.0007	±% of load/°F
Compensated temperature range		14 to 104 (-	°F (°C)		
Operating temperature range		0 to 150 (–1	°F (°C)		
Storage temperature range		–60 to 185 (-	°F (°C)		
Safe sideload		30	% of R.C.		
Maximum safe central overload		150	% of R.C.		
Ultimate central overload		300	% of R.C.		
Excitation, recommended		10	VDC or VAC RMS		
Excitation, maximum		15	VDC or VAC RMS		
Input impedance		343–4	Ω		
Output impedance		349–3	Ω		
Insulation resistance at 50 VDC		>100	MΩ		
Material	aterial Nickel-plated alloy tool steel**				
Environmental protection		IP67			

Notes

* OIML approval 100–5k lbs and 50–2500 kg only NTEP approval from 25–20k lbs only

** Stainless steel available-Model Number 60050

FSO-Full Scale Output

All specifications subject to change without notice.



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