

S-Beam Load Cell

FEATURES

- Rated capacities of 25 to 20,000 pounds 50 kilograms to 10 metric tonnes
- 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

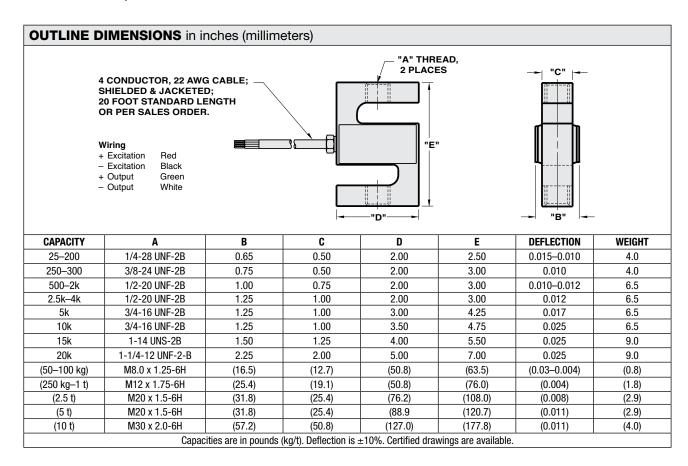
- Tank, bin and hopper weighing
- · Level and inventory monitoring
- Truck scale conversions
- Tension and compression measurements



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.





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S-Beam Load Cell

SPECIFICATIONS					
PARAMETER	VALUE				UNIT
Rated capacity—R.C. (E _{max})	25, 50, 75, 100, 150, 200, 250, 300, 500, 750, 1k, 1.5k, 2k, 2.5k, 3k, 5k, 10k, 15k, 20k 50 kg, 100 kg, 250 kg, 500 kg, 1 t, 2.5 t, 5 t, 10 t*				lbs kg/metric tonne
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 6667			Maximum available	
Rated output—R.O. lbs	3.0				mV/V
Rated output tolerance lbs	25–3k: +25 / –10				%
Rated output – R.O. kg	3.0				mV/V
Rated output tolerance kg	50 kg-1 t: +25 / -10 2.5 t-3 t: ±0.25				%
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 (–10 to 40)				°F (°C)
Operating temperature range	0 to 150 (–18 to 65)				°F (°C)
Storage temperature range	-60 to 185 (-50 to 85)				°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	343–450				Ω
Output impedance	349–355				Ω
Insulation resistance at 50 VDC	>1000				ΜΩ
Material	Nickel-plated alloy tool steel**				
Environmental protection	IP67				<u> </u>

Notes

FSO-Full Scale Output

All specifications subject to change without notice.

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

^{**} Stainless steel available-Model Number 60050



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