

Vishay Sensortronics

Stainless Steel, Welded Seal Shear Beam Load Cell



FEATURES

- · Rated capacities of 1000 to 20,000 pounds
- · Stainless steel, welded seal construction
- Trade certified for NTEP Class IIIL 10000 and III 5000 divisions and OIML R-60 3000 divisions
- · Hostile or clean environment
- Sensorgage™ sealed to IP67 standards
- Factory Mutual System approved for Classes I, II, III; Divisions 1 and 2; Groups A through G. Also, non-incendive ratings (No barriers!).

OPTIONAL FEATURES

- Companion weigh module available 65080 Stainless Steel TantaMount
- Extended temperature ranges available
- Integral conduit adaptor with teflon jacketed cable available

DESCRIPTION

Model 65083 provides the weighing industry with excellent protection necessary for today's hostile environments in an economical low profile range suitable for platform scale manufacture.

Its low profile and all welded sealing combined with high accuracy makes this load cell ideally suited for low profile platforms, pallet truck weighers, tanks and silos. The guide slots incorporated into the upper and lower mounting faces enable manufacturers to easily position the load cell.

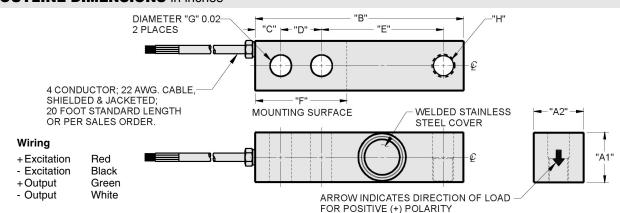
Hermetically sealed against moisture, the construction of the model 65083 in combination with a polyurethane dual shielded cable, enables continuous operation in harsh environments while maintaining a high operating specification.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Hostile environments: Food & beverage processing Chemical and plastics processing Pharmaceutical and biomedical processing
- Tank, bin and hopper weighing
- Batching, blending and mixing systems

OUTLINE DIMENSIONS in inches



CAPACITY	A 1	A2	В	С	D	E	F	G	Н	DEFLECTION	WEIGHT
1K - 4K	1.22	1.22	5.12	0.62	1.00	3.00	2.25	0.53	1/2-20 UNF-2B, Ø 0.53 x 0.61 DEEP C'BORE	0.008 - 0.026	4.0
5K - SE*	1.22	1.22	5.12	0.62	1.00	3.00	2.25	0.53	1/2-20 UNF-2B, Ø 0.53 x 0.61 DEEP C'BORE	0.008 - 0.026	4.0
5K - 10K	1.50	1.50	6.75	0.75	1.50	3.75	3.00	0.78	3/4-16 UNF-2B, Ø 0.78 x 0.75 DEEP C'BORE	0.030 - 0.055	6.5
15K - 20K	2.00	2.00	8.75	1.00	2.00	4.88	4.00	1.06	1-14 UNS-2B, Ø 1.06 x 1.00 DEEP C'BORE	0.025 - 0.032	9.0

Capacities are in pounds. Deflection is $\pm 10\%$. Certified drawings are available.

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^{*}SE denotes "Small Envelope". A 5K capacity is available in the 1K/4K dimensional envelope.

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SPECIFICATIONS

PARAMETER		UNIT			
Rated capacity-R.C. (E _{max})	50	lbs kg/metric tons			
NTEP/OIML Accuracy class	NTEP III	NTEP IIIL	Standard	OIML R60	
Maximum no. of intervals (n)	5000 single	10000 multiple		3000*	
Y = E _{max} /V _{min}	N.	Maximum available			
Rated output-R.O.	2.0	2.0	3.0	2.0	mV/V
Rated output tolerance		±% mV/V			
Zero balance		±% FSO			
Combined error	0.02	0.02	0.03	0.02	±% FSO
Non-repeatability		±% FSO			
Creep error (30 minutes)	0.025	0.03	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		°F (°C)			
Operating temperature range		°F (°C)			
Storage temperature range		°F (°C)			
Sideload rejection ratio					
Safe sideload		% of R.C.			
Maximum safe central overload		% of R.C.			
Ultimate central overload		% of R.C.			
Excitation, recommended		Vdc or Vac rms			
Excitation, maximum		Vdc or Vac rms			
Input impedance		Ω			
Output impedance		Ω			
Insulation resistance at 50VDC		MΩ			
Material					
Environmental protection					
Recommended torque		N*m			

Note: * OIML approval 1-10K & 500-5000kg only

NTEP approval 1-10Klbs only (kg/metric capacities are not approved)

FSO - Full Scale Output

All specifications subject to change without notice.

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