

Vishay Sensortronics

Stainless Steel, Welded Seal Double-Ended Shear Beam Load Cell



FEATURES

- Rated capacities of 10,000 to 100,000 pounds
- · Stainless steel, welded seal construction
- · Center-link recessed pivot load
- · Insensitive to side loads and bending moments
- · Load cells have matched outputs for multi-cell systems
- · Integral conduit adaptor
- Trade certified for NTEP Class III: 5000 divisions and Class IIIL: 10000 divisions
- Sensorgage™ sealed to IP68 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

- 65058-TSA companion assemblies for vehicle scales
- 65069-TWA companion assemblies for vessel weighing

DESCRIPTION

Model 65058S is specifically designed to be installed in extremely harsh environments. It is specially suitable for the process industry of food, chemical and pharmaceutical industries.

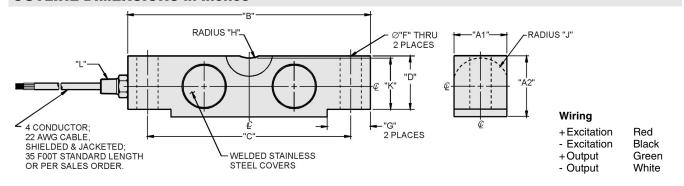
Protected to meet IP68 requirements, the construction of the 65058S load cell uses double - redundant sealing methods, to ensure long and reliable service and constant calibration.

The additional sense wires compensate for changes in lead resistance due to temperature change and/or cable extension. Complete compensation of changes in lead resistance is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Hostile environments: Food and beverage processing Chemical processing Pharmaceutical and biomedical processing
- High performance weighing modules and assemblies
- Tank and reactor weighing
- Batching, blending and mixing systems

OUTLINE DIMENSIONS in inches



CAPACITY	A 1	A2	В	С	D	F	G	Н	J	K	K
10K - 25K	1.69	1.94	7.75	6.50	1.70	0.68	1.38	0.75	0.90	1.63	1/4-18 NPT
40K	1.94	2.44	10.25	8.50	2.10	0.81	1.93	1.00	1.12	2.00	1/4-18 NPT
50K - 75K	2.44	2.94	10.25	8.50	2.65	1.06	1.93	1.00	1.37	2.54	1/2-14 NPT
100K	2.44	3.44	10.25	8.50	2.65	1.06	1.93	1.00	1.37	2.54	1/2-14 NPT

Capacities are in pounds.

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SPECIFICATIONS

PARAMETER		UNIT		
Rated capacity-R.C. (E _{max})	10K, 2	lbs		
NTEP/OIML Accuracy class	NTEP III	NTEP IIIL	Standard	
Maximum no. of intervals (n)	5000 multiple	10000 multiple		
$Y = E_{max}/V_{min}$	See NTEP o	Maximum available		
Rated output-R.O.		mV/V		
Rated output tolerance		±% mV/V		
Zero balance		±% FSO		
Combined error	0.02	0.02	0.03	±% FSO
Non-repeatability		±% FSO		
Creep error (20 minutes)	0.030	0.030	0.03	±% FSO
Temperature effect on zero	0.0015	0.0010	0.0015	±% FSO/°F
Temperature effect on output	0.0008	0.0008	0.0008	±% 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				

^{*} NTEP approval 20-200Klbs only FSO - Full Scale Output

All specifications subject to change without notice.

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Revision: 18-Jul-08

Document Number: 91000 www.vishay.com