Model 9303

Revere

VISHAY PRECISION GROUP

Double Ended Beam Load Cell

FEATURES

- Capacities: 10K to 125Klb
- Environmental protection: IP67 (DIN 40.050)
- Material: stainless steel
- Certified by NTEP class IIIL, 10000 divisions

OPTIONAL FEATURES

- FM certified for use in potentially explosive atmosphere

APPLICATIONS

- Silos, tanks and hoppers
- Weighbridges

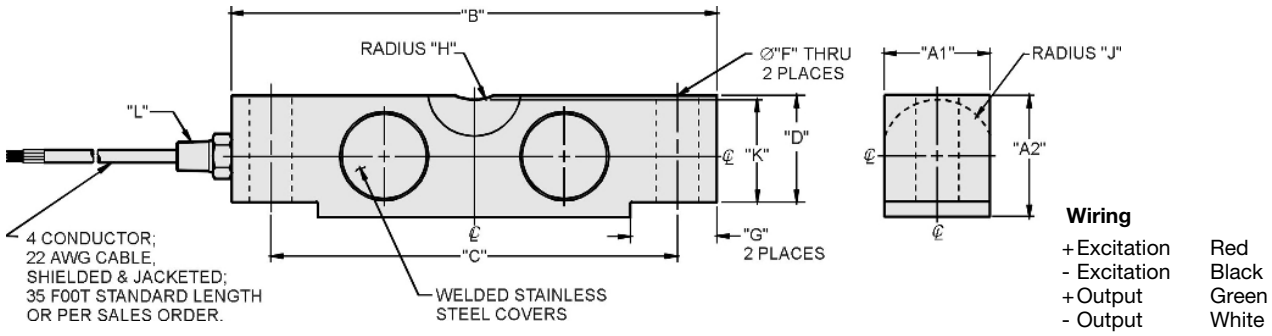
DESCRIPTION

The 9303 is a link loaded stainless steel Double Ended Shear Beam type load cell, specifically designed for truck scales, track scales and high capacity weighing applications.

A reliable sealing and mechanical protection of the strain gage area is ensured by the use of potting compound with a metal cover.

This load cell is rated intrinsically safe by the FM system, making it suitable for use in potentially explosive atmosphere.

OUTLINE DIMENSIONS in inches



CAPACITY	A1	A2	B	C	D	F	G	H	J	K	L
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 - 125K	2.44	2.94	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	**VALUE**		**UNIT**
Standard capacities (E_{max})	10K, 15K, 20K, 25K, 30K, 40K, 50K, 60K, 75K, 125K (1)		lbs
Accuracy class according to NTEP	NTEP IIIL	Non-Approved	
Maximum no. of verfication intervals (nlc)	10000		
Rated output (=S)	3		mV/V
Rated output tolerance	0.0075		±mV/V
Zero balance	1.0		±% FSO
Combined error	0.0200	0.0300	±% FSO
Temperature effect on zero	0.0010	0.0015	±% FSO/5°C (/°F)
Temperature effect on output	0.0008	0.0008	±% FSO/5°F (/°C)
Compensated temperature range	-10 to +40 (+14 to +104)		°C (°F)
Operating temperature range	-18 to +65 (0 to +150)		°C (°F)
Safe load limit	150		%E_{max}
Ultimate load	300		%E_{max}
Safe side load limit	100		%E_{max}
Excitation voltage recommended	10		V
Excitation voltage maximum	15		V
Input resistance	700±14		Ω
Output resistance	697±4		Ω
Insulation resistance	Š1000		MΩ
Environmental protection	IP67		
Element material	Stainless steel		

Notes

(1) 10K is not approved by NTEP

FSO - Full Scale Output

Mounting:

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

No mounts available for 9303.

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