Model 9123

Vishay Revere

Single Ended Beam Load Cell

FEATURES

- Capacities: 500 - 5000kg, 1K -10Klbs
- Low profile construction
- Certified to OIML R-60, 4000d and NTEP III, 5000 divisions
- Sealing: IP67 (DIN 40.050)
- Stainless steel construction
- Threaded load hole

OPTIONAL FEATURE

- FM certified for use in potentially explosive atmosphere

DESCRIPTION

The 9123 is a low profile single ended shear beam type load cell. The 9123 is stainless steel.

These products are suitable for small and medium platform scales, overhead track scales, hopper scales and process weighing applications.

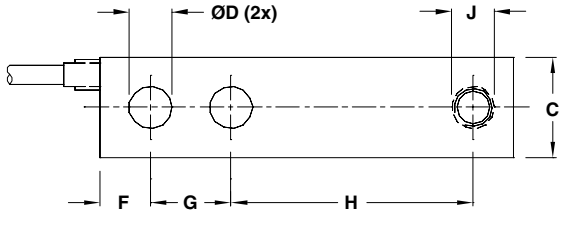
Reliable sealing is ensured by the proprietary TRANSEAL potting compound and additional mechanical protection of the strain gage area.

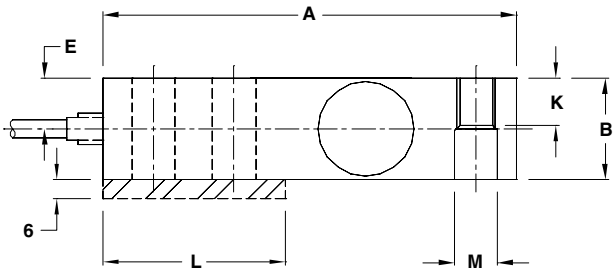
Ease of installation is made possible through the use of a partially threaded hole to accept levelling feet, load buttons or loading cables.

APPLICATIONS

- Low profile platforms
- Pallet truck weighing
- Tank and silo weighing

OUTLINE DIMENSIONS in mm





Cable specifications:

Cable length: 6 m

Excitation +	Red
Excitation -	Black
Output +	Green
Output -	White
Shield	Transparent

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.

	Dimensions in mm		Dimensions in inches	
Capacity	0.5t - 2t	5t	1K - 4K	5K - 10K
A	130.0	171.5	5.12	6.75
B	31.5	37.8	1.23	1.45
C	31.8	38.1	1.23	1.45
ØD	13.5	20.7	0.53	0.78
E	15.7	19.1	0.62	0.72
F	15.7	19.1	0.62	0.75
G	25.4	38.1	1.00	1.50
H	76.2	95.3	3.00	3.75
J	M12x1.75-6H	M20x2.5-6H	□-20UNF-2B	□-16UNF-2B
K	15.7	19.1	0.62	0.75
L	57.2	76.2	2.25	3.00
ØM	13.5	20.7	0.53	0.78

SPECIFICATIONS

PARAMETER	VALUE				UNIT
Standard capacities (E_{max})	500, 1000, 2000, 5000*				kg
Standard capacities (E_{max})	1K, 2.5K, 4K, 5K, 10K*				lbs
Accuracy class according to OIML R-60 /NTEP	**NTEP III**	**Non-Approved**	**C3**	**C4**	
Max. no. of verfication intervals	5000		3000	4000	
Min. verification interval ($V_{min}=E_{max}/Y$)			E_{max}/6000	E_{max}/8000	
Min. verification interval, type MR			E_{max}/10000	E_{max}/18000	
Rated output (=S)	3				mV/V
Rated output tolerance	0.003				±mV/V
Zero balance	1.0				±% FSO
Combined error	0.0200	0.050	0.023	0.018	±% FSO
Minimum dead load output return	0.0250	0.050	0.017	0.013	±% applied load
Non-repeatability	0.0100	0.070	0.035	0.026	±% FSO
Creep error (30 minutes)		0.060	0.025	0.018	±% applied load
Temp. effect on min. dead load output	(0.0008)	0.0250	0.0120	0.0088	±% FSO/5°C (/°F)
Temp. effect on min. dead load output, type MR			0.0070	0.0039	±% FSO/5°C
Temperature effect on sensitivity	(0.0010)	0.0250	0.0088	0.0065	% applied load/5°C (/°F)
Minimum dead load	0				$\%E_{max}$
Maximum safe over load	150				$\%E_{max}$
Ultimate over load	300				$\%E_{max}$
Maximum safe side load	100				$\%E_{max}$
Deflection at E_{max}	0.4/ 0.8/ 1.0/ 1.1 - kg 0.4/ 0.8/ 1.0/ 0.9/ 1.1 - lbs				mm
Excitation voltage	5 to 12				V
Maximum excitation voltage	15				V
Input resistance	350±3.5				Ω
Output resistance	350±3.5				Ω
Insulation resistance	≥5000				MΩ
Compensated temperature range	-10 to +40				°C
Operating temperature range	-40 to +80				°C
Storage temperature range	-50 to +90				°C
Element material	Stainless steel				
Sealing (DIN 40.050 / EN60.529)	IP67				
Recommended torque on fixation bolts	0.5 - 2t & 1K - 4K: 149 5K & 5t and over: 271				N*m

* 5t and 10K are not approved by OIML

FSO-Full Scale Output

Correct mounting of the load cell is essential to ensure optimum performance. Further information is available on request.

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