Revere



# Single Ended Beam Load Cell



## **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.

#### **FEATURES**

- Capacities: 500 5000kg, 1K 20K lbs
- 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 explosion atmosphere

#### **APPLICATIONS**

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

OUTLINE DIMENSIONS in millimeters						
—     →   ØD (2x) —   J   →		Dimensions in mm		Dimensions in inches		
- J J DD (2X)	CAPACITY	0.5t - 2t	5t	1K - 4K	5K - 15K	20K
	Α	130.0	171.5	5.12	6.75	8.75
7- <del>()()(-()-</del> -	В	31.5	37.8	1.23	1.45	1.95
T T T	С	31.8	38.1	1.23	1.45	1.95
- F - G - H	ØD	13.5	20.7	0.53	0.78	1.06
A	Е	15.7	19.1	0.62	0.72	0.98
	F	15.7	19.1	0.62	0.75	1.00
	G	25.4	38.1	1.00	1.50	2.00
	Н	76.2	95.3	3.00	3.75	4.75
「「「「」」	J	M12x1.75-6H	M20x2.5-6H	½-20UNF-2B	34-16UNF-2B	1-12UNF-2B
	K	15.7	19.1	0.62	0.75	0.98
6 —	L	57.2	76.2	2.25	3.12	4.00
L	ØM	13.5	20.7	0.53	0.78	1.030
Cable specifications:						
Cable length: 6m Cable screen is not connected to load						
+Excitation Red cell body. Performance may be affected - Excitation Black if load cell cables are shortened.						
+Output Green						
- Output White Shield Transparent						



## Single Ended Beam Load Cell

PARAMETER		UNIT			
Standard capacities (E <sub>max</sub> )		kg			
Standard capacities (E <sub>max</sub> )		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 <sub>min</sub> =E <sub>max</sub> /Y)			E <sub>max</sub> /6000	E <sub>max</sub> /8000	
Min. verification interval, type MR			E <sub>max</sub> /10000	E <sub>max</sub> /18000	
Rated output (=S)		mV/V			
Rated output tolerance		±mV/V			
Zero balance		±% 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
Minimum dead load		%E <sub>max</sub>			
Maximum safe over load		%E <sub>max</sub>			
Ultimate over load		%E <sub>max</sub>			
Maximum safe side load		%E <sub>max</sub>			
Deflection at E <sub>max</sub>	0.4/ 0	mm			
Excitation voltage		V			
Maximum excitation voltage		V			
Input resistance		Ω			
Output resistance		Ω			
Insulation resistance		МΩ			
Compensated temperature range		°C			
Operating temperature range		°C			
Storage temperature range		°C			
Element material					
Sealing (DIN 40.050 / EN60.529)					
Recommended torque on fixation bolts	0.5	N*m			

### Notes

(1) 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.





Vishay Precision Group

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