### Model 5123

Revere



## Single Ended Beam Load Cell



### DESCRIPTION

The 5123 is a low profile single ended shear beam type load cell. The 5123 is nickel plated tool 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 -10Klbs
- Low profile construction
- Certified to OIML R-60, 3000d and NTEP class III, 3000 divisions
- Sealing: IP67 (DIN 40.050)
- Nickel plated alloy steel construction
- Threaded load hole

### **OPTIONAL FEATURES**

• FM certified for use in potentially explosion atmosphere

#### **APPLICATIONS**

- Floor scales
- Tank weighing
- Bin and hopper weighing

OUTLINE DIMENSIONS in inches [millimeters]												
SHIE 20 F OR F Wiring +Excitat - Excitat +Output	+Excitation Red - Excitation Black +Output Green - Output White											
CAPACITY	A1	A2	В	С	D	Е	F	G	Н	DEFLECTION	WEIGHT	
1K - 4Klbs	1.25	1.25	5.12	0.62	1.00	3.00	2.25	0.53	1/2-20 UNF-2B, Ø0.53 x 0.62 DP C'BORE	0.017 - 0.025	4.0	
5K - 10Klbs	1.50	1.50	6.75	0.75	1.50	3.75	3.00	0.78	3/4-16 UNF-2B, Ø0.78 x 0.75 DP C'BORE	0.025 - 0.035	6.5	
[500kg - 2t]	[32.0]	[32.0]	[130.0]	[16.0]	[25.0]	[76.0]	[57.0]	[13.0]	M12 x 1.75-6H, Ø13 x 15 DP C'BORE	[0.432 - 0.635]	[1.8]	
[3t - 5t]	[38.0]	[38.0]	[171.0]	[19.0]	[38.0]	[95.0]	[76.0]	[20.7]	M20 x 2.5-6H, Ø20.5 x 19 DP C'BORE	[0.635 - 0.889]	[2.9]	
Capacities are in pounds [kg/t]. Deflection is ±10%. Certified drawings are available.												



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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	
Max. no. of verfication intervals	3000		3000	
Min. verification interval (V <sub>min</sub> =E <sub>max</sub> /Y)			E <sub>max</sub> /6000	
Min. verification interval, type MR			E <sub>max</sub> /10000	
Rated output (=S)		3	•	mV/V
Rated output tolerance		±mV/V		
Zero balance		1.0		±% FSO
Combined error	0.0200	0.050	0.023	±% FSO
Minimum dead load output return	0.0250	0.050	0.017	±% FSO
Minimum dead load output return, type MI8			0.0063	±% FSO
Non-repeatability	0.0100	0.01	0.01	±% FSO
Creep error (30 minutes)		0.060	0.025	±% FSO
Temp. effect on min. dead load output	(0.0008)	0.0250	0.0120	±% FSO/5°C (/°F
Temp. effect on min. dead load output, type MR			0.0070	±% FSO/5°C
Temperature effect on sensitivity	(0.0010)	0.0250	0.0088	±% FSO/5°C (/°F
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/ 0.8/ 1.0/	mm		
Excitation voltage		V		
Maximum excitation voltage		V		
Input resistance		Ω		
Output resistance		Ω		
Insulation resistance		MΩ		
Compensated temperature range		С°		
Operating temperature range		°C		
Storage temperature range		°C		
Element material				
Sealing (DIN 40.050 / EN60.529)				
Recommended torque on fixation bolts	0.5 - 2t & 1	N*m		

#### Notes

<sup>(1)</sup> 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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