

Single-Ended Load Beam

FEATURES

- Capacities: 5-500 kg
- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d and NTEP class IIIL, 10000 divisions
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Optional
 - ATEX and FM certified versions are available for use in potentially explosive atmospheres

APPLICATIONS

- · Platform scales
- · Belt scales
- · Packaging machines
- Silo/hopper weighing

DESCRIPTION

The SHBxR is a fully weld-sealed stainless steel bending beam type load cell.







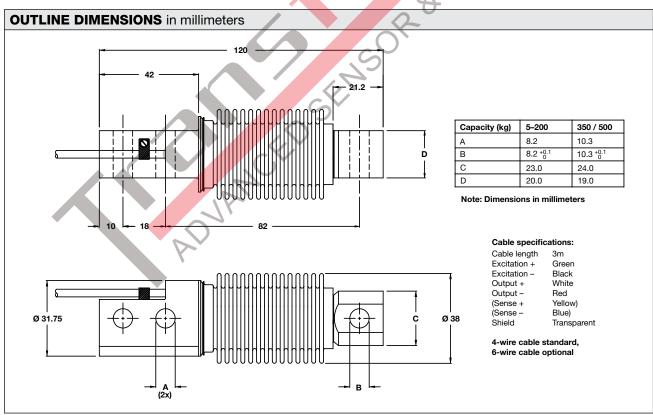




This product is suitable for low capacity platform scales, packaging machines, hybrid scales and process weighing.

Fully welded construction and water block cable-entry ensure that this product can be used successfully in harsh environments found in the food, chemical and allied industries.

This product meets the stringent Weights and Measures requirements throughout Europe.



Tel:0755-82908211

Web:www.sensorstech.com



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Single-Ended Load Beam

SPECIFICATIONS						
PARAMETER	VALUE					UNIT
Standard capacities (E _{max})	5, 10, 20, 30, 50, 100, 200, 350, 500 ⁽¹⁾				100, 200, 350, 500 ⁽²⁾	kg
Accuracy class according to OIML R-60 /NTEP	NTEP IIIL	Non- Approved	C3	C4	C3MI7.5	
Max. no. of verfication intervals	10000		3000	4000	3000	
Min. verification interval (V _{min} =E _{max/Y})	E _{max} /15,000 E _{max} /15,000			E _{max} /15,000		
MDLOR (Z=E _{max} /2*DR)					7500	
Rated output (=S)	2					mV/V
Rated output tolerance	0.02					±mV/V
Zero balance	1.0					±% FSO
Combined error	0.0200	0.05000	0.0200	0.0170	0.0200	±% FSO
Non-repeatability	0.0100	0.0200	0.0100	0.0090	0.0100	±% FSO
Minimum dead load output return	0.0250	0.0500	0.0167	0.0125	0.0067	±% applied load
Creep error (30 minutes)		0.0600	0.0245	0.0184	0.0245	±% applied load
Creep error (20 - 30 minutes)	0.0300	0.0500				±% applied load
Temp. effect on min. dead load output	(0.0008)	0.0250	0.0047	0.0047	0.0047	±% FSO/5 °C (/°F)
Temperature effect on sensitivity	(0.0010)	0.0250	0.0050	0.0045	0.0050	±% 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}	0.30±0.03					mm
Excitation voltage	5 to 12					V
Maximum excitation voltage	15					V
Input resistance	460±50					Ω
Output resistance	350±3.5					Ω
Insulation resistance	≥5000					ΜΩ
Compensated temperature range	-10 to +40					°C
Operating temperature range	-40 to +80					°C
Storage temperature range	-40 to +90					°C
Element material (DIN)	Stainless steel 1.4542					
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68					
SC-Version (current calibration)	Standard					
Recommended torque on fixation bolts	23 (70 for 350/500 kg)					N*m

^{(1) 5} and 10 kg capacities are not approved by NTEP. 5 kg is not approved by OIML.

FSO-Full Scale Output

SC-version: The rated output and the output resistance are balanced in such a way that the output current is calibrated to within 0.05% of a reference value. This allows easy parallel connection of the load cells.

All specifications subject to change without notice.

 $D_{max} = 0.75 * E_{max}$



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Tel:0755-82908211 Web:www.sensorstech.com