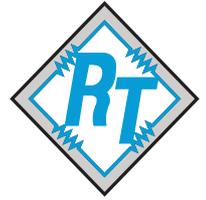


Model **SHBxR** Single Ended Beam Load Cell



APPROVALS

	C4 $n_{lc} \leq 4000$ $Y \leq 15000$ $Z \leq 7500$
	B10 $n_{lc} \leq 10000$
	II2G EEx ib IIC T6/T4 or II1D T70°C II3G EEx nA II T6/T4 or II3D T70°C
	Factory Mutual System



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.

The 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.

FEATURES

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

SHBxR SPECIFICATIONS

PARAMETER	VALUE					UNIT	
Standard capacities (E _{max})	5, 10, 20, 30, 50, 100, 200, 350, 500					100, 200, 350, 500**	kg
Accuracy class according to OIML R-60/NTEP	Non-Approved	NTEP III L	C3	C4	C3MI7.5		
Max. no. of verification intervals (n _{IC})		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	0.0500	0.0200	0.0200	0.0170	0.0200	±% FSO	
Non-repeatability	0.0200	0.0100	0.0100	0.0090	0.0100	±% FSO	
Minimum dead load output return*	0.0500	0.0250	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)*	0.0500	0.0300	0.0053	0.0039	0.0053	±% applied load	
Temp. effect on min. dead load output	0.0250	(0.0008)	0.0047	0.0047	0.0047	±% FSO/5°C (°F)	
Temperature effect on sensitivity	0.0250	(0.0010)	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					MΩ	
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 350/500kg)					Nm	

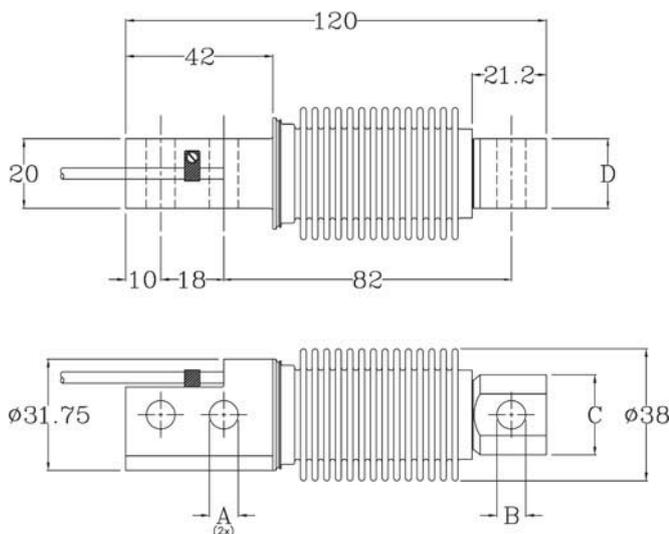
* Applies for the temperature range -10 to +40 °C

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

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.

OUTLINE DIMENSIONS



Capacity (kg)	5 → 200	350 / 500
ØA	8.2	10.3
ØB	8.2 ^{+0.1} ₀	10.3 ^{+0.1} ₀
C	23.0	24.0
D	20.0	19.0

Note: Dimensions in millimeters

Cable specifications:

Cable length: 3m
 Excitation + Green
 Excitation - Black
 Output + White
 Output - Red
 (Sense + Yellow)
 (Sense - Blue)
 Shield Transparent

4-wire cable standard,
 6-wire cable optional

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