

SSB SINGLE ENDED SHEAR BEAM LOAD CELL



DESCRIPTION:

The SSB is a stainless steel single ended shear beam type load cell.

This robust product is suitable for a wide range of platform scales, pallet scales, overhead track scales and process weighing applications.

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 process 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**
- ATEX certified versions are available for use in potentially explosive atmospheres
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Digital version available (model SBC)
- **CAPACITIES: 0.5 → 5t**

SSB: SPECIFICATIONS

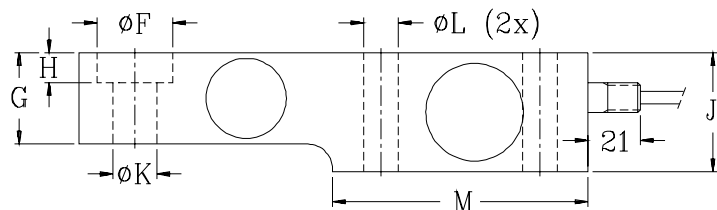
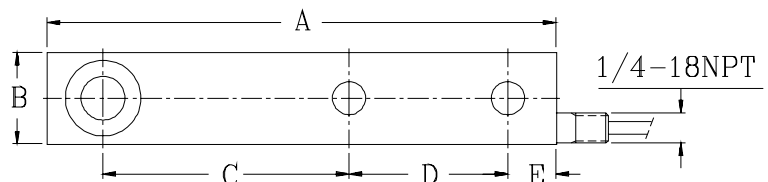
Standard Capacities (=E _{max})	t	0.5, 1, 2, 5			2, 5		
		C2	C3	C3M16	C3M18	C4	
Accuracy Class According to OIML R-60							
Max. Number of Verification Intervals (n _{1c})		2000	3000	3000	3000	4000	
Minimum Verification Interval (v _{min})		E _{max} /10000	E _{max} /10000	E _{max} /15000	E _{max} /15000	E _{max} /10000	
MDLOR (Z= E _{max} / 2*DR)		--	--	6000	8000	--	
Accuracy Class type MR			C3MR			C4MR	
Minimum Verification Interval type MR			E _{max} /20000			E _{max} /20000	
Accuracy According to Type Designation		CC	C2	C3	C3M16	C3M18	C4
Combined Error	%S	≤ ± 0.0500	≤ ± 0.0230	≤ ± 0.0200	≤ ± 0.0200	≤ ± 0.0200	≤ ± 0.0170
Non-Repeatability	%S	≤ ± 0.0200	≤ ± 0.0100	≤ ± 0.0100	≤ ± 0.0100	≤ ± 0.0100	≤ ± 0.0090
Minimum Dead Load Output Return ¹	%S	≤ ± 0.0500	≤ ± 0.0250	≤ ± 0.0167	≤ ± 0.0083	≤ ± 0.0063	≤ ± 0.0125
Creep Error (30 Minutes) ¹	%S	≤ ± 0.0600	≤ ± 0.0245	≤ ± 0.0245	≤ ± 0.0245	≤ ± 0.0245	≤ ± 0.0184
Creep Error (20-30 Minutes) ¹	%S	≤ ± 0.0200	≤ ± 0.0053	≤ ± 0.0053	≤ ± 0.0053	≤ ± 0.0053	≤ ± 0.0039
Temp. Effect on Min. Dead Load Output	%S/5°C	≤ ± 0.0250	≤ ± 0.0070	≤ ± 0.0070	≤ ± 0.0050	≤ ± 0.0050	≤ ± 0.0070
Temp. Effect on MDLO type MR	%S/5°C			≤ ± 0.0035			≤ ± 0.0035
Temp. Effect on Sensitivity	%S/5°C	≤ ± 0.0250	≤ ± 0.0060	≤ ± 0.0050	≤ ± 0.0050	≤ ± 0.0050	≤ ± 0.0045
Minimum Dead Load	%E _{max}	0					
Maximum Safe Over Load	%E _{max}	150					
Ultimate Over Load	%E _{max}	300					
Maximum Safe Side Load	%E _{max}	100					
Deflection at E _{max}	mm	0.5 max.					
Excitation Voltage	V	5...15 (18 max.)					
Rated Output (=S)	mV/V	2					
Tolerance on Rated Output	mV/V	± 0.02					
Zero Balance	%S	≤ ± 1.0					
Input Resistance	Ω	350 ± 3.5					
Output Resistance	Ω	350 ± 3.5					
Insulation Resistance	MΩ	≥ 5000					
Compensated Temperature Range	°C	-10...+40					
Operating Temperature Range	°C	-40...+80					
Storage Temperature Range	°C	-40...+90					
Element Material (DIN)		Stainless Steel 1.4542					
Sealing (DIN 40.050 / EN 60.529)		IP66 and IP68					
SC-Version (Current Calibration)		Standard					
Recommended Torque on Fixation Bolts	Nm	110 (0.5-2) / 540 (5)					
ATEX opt. for potent. explosive atmospheres		II2G EEx ib IIC T4/T6, II2D					

¹ Applies for the temperature range -10 to +40 °C

"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 an easy parallel connection of multiple load cells.

Accuracy classes C2 and C3, C3MR, C3M16, C3M18, C4 and C4MR are in agreement with the OIML recommendation R-60.

Correct mounting of the load cells is essential to ensure optimum performance. Performance may be affected if load cell cables are shortened. Further information is available on request.



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Attention:

Dimensions: mm.
All dimension tolerances according to ISO 2768m, unless otherwise specified

Cable specifications:

Cable length 5m (±0.2m).
Excitation + Green
Excitation - Black
Output + White
Output - Red
Shield Transparent

Cable screen is not connected to load cell body.

Capacity (t)	0.5 - 2	5
A	203.2	235.0
B	36.5	47.5
C	98.4	123.8
D	63.5	66.7
E	19.1	20.6
F	30.2 ^{+0.2} ₀	41.3 ^{+0.2} ₀
G	36.5	47.6
H	11.9	15.8
J	47.6	69.9
K	17.5 H11	25.5 H11
L	14.0	22.0
M	101.6	111.2

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