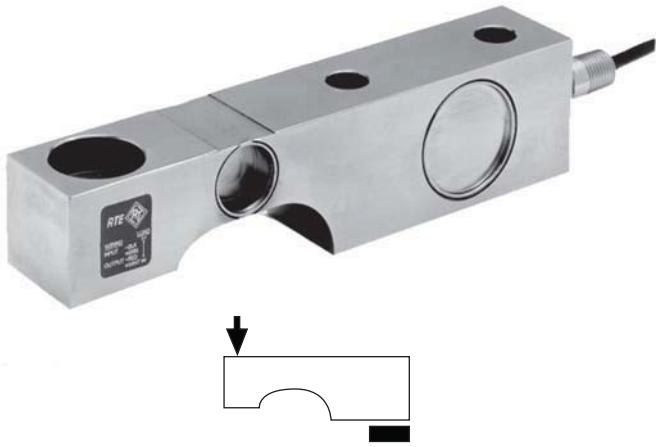
Revere Transducers Europe

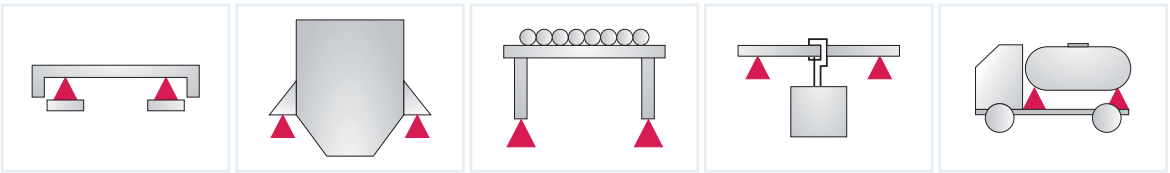
Model SSB
Single Ended Beam Load Cell

APPROVALS

OIML	C4 $n_{lc} \leq 4000$, Y ≤ 20000, Z ≤ 8000
NTEP	B10 $n_{lc} \leq 10000$
ATEX Ex	II2G EEx ib IIC T6/T4 or II1D T70°C II3G EEx nA II T6/T4 or II3D T70°C
FM APPROVED	Factory Mutual System



APPLICATIONS



Platform Scales	Silo/Hopper Weighing	Belt Scales	Overhead Track Scales	On-board Weighing

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 and the USA.

FEATURES

- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d and NTEP class 10000 divisions
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Digital version available (model SBC)
- ATEX- EEx ia IIC T6 hazardous area approval
- FM approval available
- Capacities: **0.5 ➔ 10 t**

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SSB SPECIFICATIONS

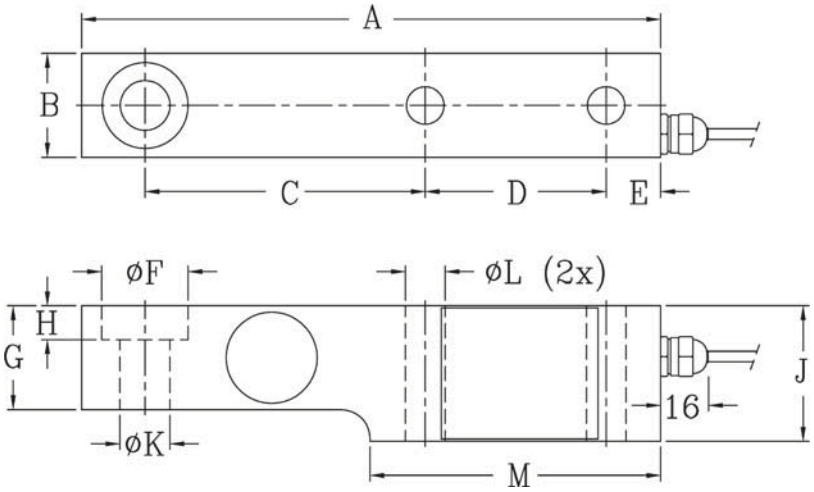
PARAMETER	VALUE					UNIT
Standard capacities (E_{max})	0.5, 1, 2, 5, 10			2, 5		t
Accuracy class according to OIML R-60 / NTEP	Non-Approved	**NTEP IIIL 10000d**	**C3**	**C3MI8**	**C4**	
Max. no. of verfication intervals (n_{lc})		10000	3000	3000	4000	
Min. verification interval ($V_{min}=E_{max}/Y$)		--	E_{max}/10,000	E_{max}/15,000	E_{max}/10,000	
MDLOR ($Z=E_{max}/2\times DR$)		--	--	8000	--	
Min. verification interval, type MR			E_{max}/20,000	--	E_{max}/20,000	
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	0.0200	0.0170	±% FSO
Non-repeatability	0.0200	0.0100	0.0100	0.0100	0.0090	±% FSO
Minimum dead load output return *	0.0500	0.0250	0.0167	0.0063	0.0125	±% applied load
Creep error (30 minutes)*	0.0600		0.0245	0.0245	0.0184	±% applied load
Creep error (20 minutes)*	0.0200	0.0300	0.0053	0.0053	0.0039	±% applied load
Temp. effect on min. dead load output	0.0250	(0.001)	0.0070	0.0050	0.0070	±% FSO/5°C (/°F)
Temp. effect on min. dead load output, type MR			0.0035		0.0035	±% FSO/5°C
Temperature effect on sensitivity	0.0250	(0.0008)	0.0050	0.0050	0.0045	±% 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}	0.5 max.					mm
Excitation voltage	5 to 15					V
Maximum excitation voltage	18					V
Input resistance	350 ± 3.5					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	Stainless steel 1.4542					
Sealing (DIN 40.050 / EN60.529)	IP66 & IP68					
SC-Version (current calibration)	Standard					
Recommended torque on fixation bolts	0.5-2t: 110 / 5t: 540					Nm

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

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 (t)	0.5 ➔ 2	5	10
A	203.2	235.0	235.0
B	36.5	47.5	55.0
C	98.4	123.8	123.8
D	63.5	66.7	66.7
E	19.1	20.6	20.6
ØF	$30.2^{+0.2}_{0}$	$41.3^{+0.2}_{0}$	$41.3^{+0.2}_{0}$
G	36.5	47.6	58.6
H	11.9	15.8	15.8
J	47.6	69.9	69.9
ØK	17.5 H11	25.5 H11	25.5 H11
ØL	14.0	22.0	25.0
M	101.6	111.2	111.2

Note: Dimensions in millimeters

Cable specifications:

Cable length:	5m
Excitation +	Green
Excitation -	Black
Output +	White
Output -	Red
Shield	Transparent

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