

Single Ended Load Beam



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

- Capacities: 0.5, 1, 2, and 5 tons
- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 4000d and NTEP 10000d
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Digital version available (model SBC)

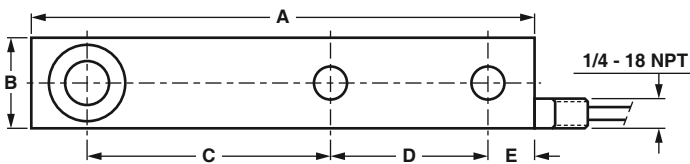
OPTIONAL FEATURES

- ATEX- EEx ib IIC T6 hazardous area approval
- FM approval available

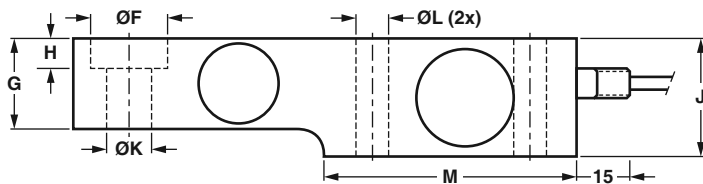
APPLICATIONS

- Platform scales
- Belt scales
- Pallet scales
- Overhead track scales
- On-board weighing
- Silo hopper weighing

OUTLINE DIMENSIONS in millimeters



Note: Dimensions in millimeters



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

Capacity (kg)	500 - 2000	5000
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

SPECIFICATIONS						
PARAMETER	VALUE					UNIT
Standard capacities (E_{max})	0.5, 1, 2, 5 ⁽¹⁾			2, 5 ⁽¹⁾		t
Accuracy class according to OIML R-60	NTEP IIIIL	Non-Approved	C3	C3MI8	C4	
Max. no. of verification intervals	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 ($Z=E_{max}/2*DR$)			--	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	0.0200	0.0500	0.0200	0.0200	0.0170	±% FSO
Non-repeatability	0.0100	0.0200	0.0100	0.0100	0.0090	±% FSO
Minimum dead load output return	0.0250	0.0500	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)	0.030	0.0200	0.0053	0.0053	0.0039	±% applied load
Temp. effect on min. dead load output	(0.001)	0.0250	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	(0.0008)	0.0250	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	353±3					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					N*m

Notes

⁽¹⁾ for 10 ton capacity please consult factory

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.

Disclaimer

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