BSP UNIVERSAL LOAD CELL

ers Europe

DESCRIPTION:

The BSP is a stainless steel S-type load cell that can be used in either tension or compression.

This product is suitable for a wide range of hybrid scales, overhead track scales, belt scales and process weighing applications.

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

This product fully meets the stringent European Weights and Measures requirements through Europe.



FEATURES:

- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 3000d
- Integrated overload stop (50 → 500 kg)
- 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
- CAPACITIES: 50 → 5000 kg



BSP: SPECIFICATIONS

Standard Capacities (=E _{max})	kg	50, 125, 250, 500, 1250, 2500, 5000					
Accuracy Class According to OIML R-60			C1	C2	C3		
Max. Number of Verification Intervals (n _{lc})			1000	2000	3000		
Minimum Verification Interval (v _{min})			E _{max} /5000	E _{max} /10000	E _{max} /10000		
Accuracy According to Type Designation		CC	C1	C2	C3		
Combined Error	%S	≤ ± 0.0500	≤ ± 0.0300	≤ ± 0.0230	≤ ± 0.0200		
Non-Repeatability	%S	≤ ± 0.0200	≤ ± 0.0200	≤ ± 0.0100	≤ ± 0.0100		
Minimum Dead Load Output Return ¹	%S	≤ ± 0.0500	≤ ± 0.0500	≤ ± 0.0250	≤ ± 0.0167		
Creep Error (30 Minutes) ¹	%S	≤ ± 0.0600	≤ ± 0.0490	≤ ±0.0245	≤ ± 0.0245		
Creep Error (20-30 Minutes) ¹	%S	≤ ± 0.0200	≤ ± 0.0105	\leq ± 0.0053	\leq ± 0.0053		
Temp. Effect on Min. Dead Load Output	%S/5°C	≤ ± 0.0250	≤ ± 0.0014	\leq ± 0.0070	\leq ± 0.0070		
Temp. Effect on Sensitivity	%S/5°C	≤ ± 0.0250	\leq ± 0.0085	≤ ± 0.0060	≤ ± 0.0050		
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	0.28 max.					
Excitation Voltage	V	515					
Maximum Excitation Voltage	V	18					
Rated Output (=S)	mV/V	3 (2 for 2500 and 5000kg)					
Tolerance on Rated Output	mV/V	± 0.03 (± 0.02 for 2500 and 5000kg)					
Zero Balance	%S	≤± 1.0					
Input Resistance	Ω	350 ± 3.5					
Output Resistance	Ω	350 ± 3.5					
Insulation Resistance	ΜΩ	≥ 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					
ATEX options for potentially explosive atmospheres ²		II2G EEx ib IIC T4/T6 or II1D T70°C or II3G EEx nA II T4/T6 or II3D T70°C					
SC-Option (Current Calibration)		Standard					

¹ Applies for the temperature range -10 to +40 °C 2 Applies for the temperature range -20 to +40 °C

"SC-Option" 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 multiple load cells

Accuracy classes C1, C2 and C3 are in agreement with the OIML recommendation R-60. The BSP is certified for tension applications only.

Correct mounting of the load cells is essential to ensure optimum performance. Cable length 10m. Further information is available on request.

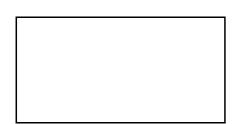
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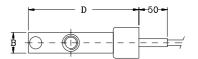
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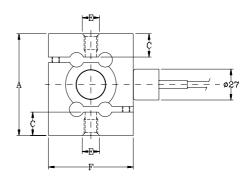
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Vishay Revere Transducers part of the Vishay Transducers group www.vishaymq.com







E _{max} (kg)	50,125	250	500	1250	2500,5000	
Α	84.3	88.9	88.9	95.2	120.6	
В	23.9	18.0	18.0	24.1	36.6	
C thread	12.7	14.0	14.0	14.0	29.2	
D	85.7	84.1	96.8	84.1	84.1	
E	M8x1.25		M12x1		M24x2	
F	63.5	61.9	74.6	61.9	61.9	

Cable specifications:

Cable length: 10m Excitation + Green Excitation - Black Output + White Output - Red Shield Transparent

Cable screen is not connected to load cell body. Performance may be affected if load cell cables are shortened.

Attention:

All dimensions: mm.

Dimension tolerances according to ISO 2768m; unless otherwise specified.

Tension applications result in a negative output signal.

All specifications subject to change without notice

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