

Model BSP

Revere

Universal Load Cell

FEATURES

- Capacities: 50-5000 kg, 100-10k lbs
- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 3000d
- Integrated overload stop (50-500 kg)
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- Optional
 - ATEX and FM certified versions are available for use in potentially explosive atmospheres

APPLICATIONS

- Hybrid scales
- Process weighing
- Belt checkweighers
- Dynamometers
- Material testing machines

DESCRIPTION

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

OUTLINE DIMENSIONS in millimeters



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 demanding environments found in the food, chemical, and allied process industries.

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

Cable specifications Cable length: 10m

Excitation +	Green
Excitation -	Black
Dutput +	White
Dutput –	Red
Shield	Transparent

Cable screen is not connected to the load cell body. Performance may be affected if load cell cables are shortened. Tension applications result in a negative output signal.

Capacity (kg)	50, 125	250	500	1250	2500, 5000
A	84.3	88.9	88.9	95.2	120.6
B	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

Capacity (lb)	100, 250	500	1k	2.5k	5k, 10k
A	3.32	3.50	3.50	3.75	4.75
F	2.48	2.44	2.94	2.44	2.44
В	0.94	0.71	0.71	0.95	1.44
D	3.36	3.32	3.81	3.31	3.31
E threads	3/8-24UNF-3B	1/2-20 UNF-3B			1-14 UNS-3B

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GTransducers

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SPECIFICATIONS						
PARAMETER		VALUE	UNIT			
Standard capacities (Emax)	50, 125,	250, 500, 1250, 25	kg			
Standard capacities (Emax)	100, 250, 5	500, 1000, 2500, 50	000, 10000	lbs		
Accuracy class according to OIML R-60 /NTEP	NTEP IIIL	Non-Approved	C3			
Maximum number of verfication intervals	10000		3000			
Minimum verification interval = V _{min} /E _{max} /Y)			E _{max} /10000			
Rated output (=S)	3 (2 for 2500 and 5000 kg)			mV/V		
Rated output tolerance	0.03 (0.02 for 2500 and 5000 kg)			± mV/V		
Zero balance		1.0		±% FSO		
Combined error	0.0200	0.0500	0.0200	±% FSO		
Non-repeatability	0.0100	0.0200	0.0100	±% FSO		
Minimum dead load output return		0.0500	0.0167	±% FSO		
Creep error (30 minutes)		0.0600	0.0245	±% FSO		
Creep error (20–30 minutes)	0.0300	0.0200		±% FSO		
Temp. effect on minimum dead load output	(0.0008)	0.0250	0.0070	±% FSO/5°C (/°F)		
Temperature effect on sensitivity	(0.0010)	0.0250	0.0050	±% FSO/5°C (/°F)		
Minimum dead load	0			% E _{max}		
Maximum safe overload	150			% E _{max}		
Ultimate overload	300			% E _{max}		
Maximum safe side load	100			% E _{max}		
Deflection at E _{max}	0.28 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 (DIN)	Stainless steel 1.4542					
Sealing (DIN 40.050 / EN60.529)	IP66 and IP68					
SC-Version (current calibration)	Standard					

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.

All specifications subject to change without notice.



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