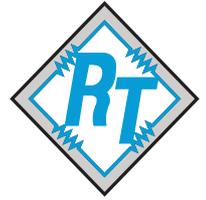
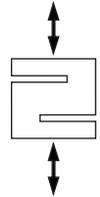


Model **BSP** Universal Load Cell



APPROVALS

	C3 $n_{lc} \leq 3000$ $Y \leq 10000$
	B10 $n_{lc} \leq 10000$
	II2G EEx ib IIC T6/T4 or II1D T70°C II3G EEx nA II T6/T4 or II3D T70°C
	Factory Mutual System



APPLICATIONS

Overhead Track Scales	Suspended Hoppers	Force Measurement

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 meets the stringent Weights and Measures requirements through Europe.

FEATURES

- Fully welded, stainless steel construction
- Hermetically sealed, IP66 and IP68
- Certified to OIML R-60, 3000d and NTEP IIIIL, 10000 divisions
- Integrated overload stop (50 - 500kg)
- Current calibration output (SC version) ensures easy and accurate parallel connection of multiple load cells
- ATEX and FM certified versions are available for use in potentially explosive atmospheres
- Capacities: **50 → 5000 kg**

BSP SPECIFICATIONS

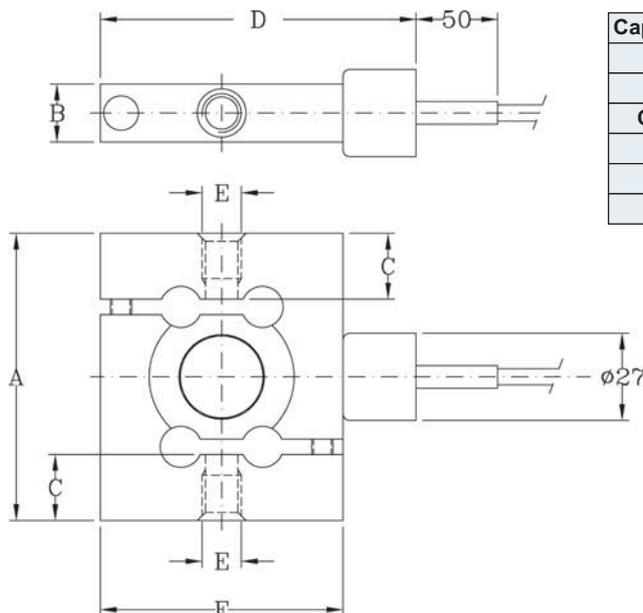
PARAMETER	VALUE			UNIT
Standard capacities (E_{max})	50, 125, 250, 500, 1250, 2500, 5000			kg
Accuracy class according to OIML R-60 / NTEP	Non-Approved	NTEP IIIIL	C3	
Max. no. of verification intervals (n_{IC})		10000	3000	
Min. verification interval ($V_{min}=E_{max}/Y$)		--	$E_{max}/10000$	
Rated output (=S)	3 (2 for 2500 and 5000kg)			mV/ V
Rated output tolerance	0.03 (0.02 for 2500 and 5000kg)			\pm mV/ V
Zero balance	1.0			\pm % FSO
Combined error	0.0500	0.0200	0.0200	\pm % FSO
Non-repeatability	0.0200	0.0100	0.0100	\pm % FSO
Minimum dead load output return *	0.0500		0.0167	\pm % applied load
Creep error (30 minutes)*	0.0600		0.0245	\pm % applied load
Creep error (20 - 30 minutes)*	0.0200	0.0300	0.0053	\pm % applied load
Temp. effect on min. dead load output	0.0250	(0.0010)	0.0070	\pm % FSO/5°C (°F)
Temperature effect on sensitivity	0.0250	(0.0008)	0.0050	\pm % 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}	0.28 max.			mm
Excitation voltage	5 to 12			V
Maximum excitation voltage	18			V
Input resistance	350 \pm 3.5			Ω
Output resistance	350 \pm 3.5			Ω
Insulation resistance	\geq 5000			M Ω
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			

* 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 (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	M8x1.25	M12x1	M12x1	M24x2
F	63.5	61.9	74.6	61.9	61.9

Note: Dimensions in millimeters

Cable specifications:

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

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

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