

PENKO Engineering BV

The Leading Experts In Weighing & Dosing

50kg-5000kg 100lbs-10k Klbs



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









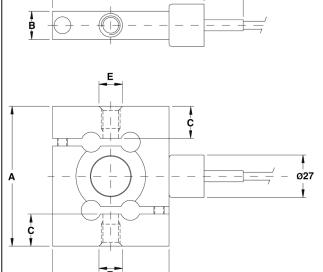


This product is suitable for a wide range of hybrid scales, overhead track scales, belt scales, and process weighing applications.

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 Weights and Measures requirements throughout Europe.

OUTLINE DIMENSIONS in millimeters



Cable specifications

Cable length: 10n

Excitation + Green
Excitation - Black
Output + White
Output - 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
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

Capacity (lb)	100, 250	500	1k	2.5k	5k, 10k
Α	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	1-14 UNS-3B	

Load cell BPS: 50kg-5000kg Technical Data

SPECIFICATIONS PARAMETER VALUE UNIT Standard capacities (Emax) 50, 125, 250, 500, 1250, 2500, 5000 kg 100, 250, 500, 1000, 2500, 5000, 10000 lbs Standard capacities (Emax) Accuracy class according to OIML R-60 /NTEP NTEP IIIL Non-Approved 3000 Maximum number of verfication intervals 10000 Minimum verification interval = $V_{min}/E_{max}/Y$) Emax/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 0.0500 **Combined error** 0.0200 0.0200 ±% FSO 0.0100 0.0200 0.0100 ±% FSO Non-repeatability Minimum dead load output return 0.0500 0.0167 ±% FSO Creep error (30 minutes) 0.0600 0.0245 ±% FSO 0.0300 Creep error (20-30 minutes) 0.0200 ±% FSO Temp. effect on minimum dead load output (8000.0)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 % Emax 150 Maximum safe overload % Emax **Ultimate overload** 300 % Emax Maximum safe side load 100 % Emax Deflection at E_{max} 0.28 max. mm ٧ **Excitation voltage** 5 to 15 ٧ Maximum excitation voltage 18 350±3.5 Ω Input resistance 350±3.5 Ω **Output resistance** Insulation resistance ≥5000 $M\Omega$ Compensated temperature range -10 to +40 °C -40 to +80 °C Operating temperature range °C Storage temperature range -40 to +90 **Element material (DIN)** Stainless steel 1.4542 IP66 and IP68 Sealing (DIN 40.050 / EN60.529)

100 lbs-10K lbs

FSO-Full Scale Output

SC-Version (current calibration)

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.

Standard

