

PENKO Engineering BV

The Leading Experts In Weighing & Dosing

10Kg-500Kg **SB8**





Product Description

The type SB8 is a stainless steel beam type load cell with complete hermetic sealing. It is a perfect fit for use in industrial environments.

Application

■ Platform scales, bench scales, conveyor scales, small hopper and tank weighing systems, bagging machines and other

Key Features

- Wide range of capacities from 10 kg to 500 kg
- Stainless steel construction
- Environmental Protection IP68 with complete hermetic sealing
- Calibration in mV/V/ Ω

Approvals

- \blacksquare OIML approval to C3 (Y = 10 000)
- ATEX hazardous area approval for Zone 0, 1, 2, 20, 21 and 22
- FM hazardous area approval

Packed Weight

■ Capacity (kg) 10-20 50-250 500 Weight (kg) 0.62 0.64 8.0

Available Accessories

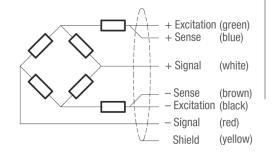
- Compatible range of application hardware
- Compatible range of electronics available

Wiring

■ The load cell is provided with a shielded, 6 conductor cable (AWG 26). Cable jacket polyurethane

■ Cable length: 3 m Cable diameter: 5.8 mm

■ The shield is connected to the load cell body



Load cell SB8: 100kg-500kg

Technical Data

Specifications				
Maximum capacity	(E _{max})	kg	10 / 20 / 50 / 100 / 200 / 250 / 500	
Accuracy class according to OIML R60			(GP)	C3
Maximum number of verification intervals	(n _{max})		n.a.	3 000
Minimum load cell verification interval	(v _{min})		n.a.	E _{max} /10 000
Temperature effect on minimum dead load output	(TC_0)	%*R0/10°C	≤ ± 0.0400	≤ ± 0.0140
Temperature effect on sensitivity	(TC _{RO})	%*R0/10°C	≤ ± 0.0200	≤ ± 0.0100
Combined error		%*R0	≤ ± 0.0500	≤ ± 0.0200
Non-linearity		%*R0	≤ ± 0.0400	≤ ± 0.0166
Hysteresis		%*R0	≤ ± 0.0400	≤ ± 0.0166
Creep error (30 minutes) / DR		%*R0	≤ ± 0.0600	≤ ± 0.0166
Rated Output	(RO)	mV/V	2 ± 0.1%	
Calibration in mV/V/Ω (AI classified)		%	$\leq \pm 0.05 \ (\leq \pm 0.005)$	
Zero balance		%*R0	≤ ± 5	
Excitation voltage		V	515	
Input resistance	(R _{LC})	Ω	380 ± 10	
Output resistance	(Rout)	Ω	350 ± 3	
Insulation resistance (100 V DC)		MΩ	≥ 5 000	
Safe load limit	(E _{lim})	%*E _{max}	200	
Ultimate load		%*E _{max}	300	
Safe side load		%*E _{max}	100	
Compensated temperature range		°C	-10+40	
Operating temperature range		°C	-40+80 (ATEX -40+60)	
Load cell material			stainless steel 17-4 PH (1.4548)	
Protection according EN 60 529			IP68 (up to 2 m water depth)	

The limits for Non-Linearity, Hysteresis, and TC_{R0} are typical values. The sum of Non-linearity, Hysteresis and TC_{R0} meets the requirements according to OIML R60 with p_{LC}=0.7.

