













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 0.8

Available Accessories

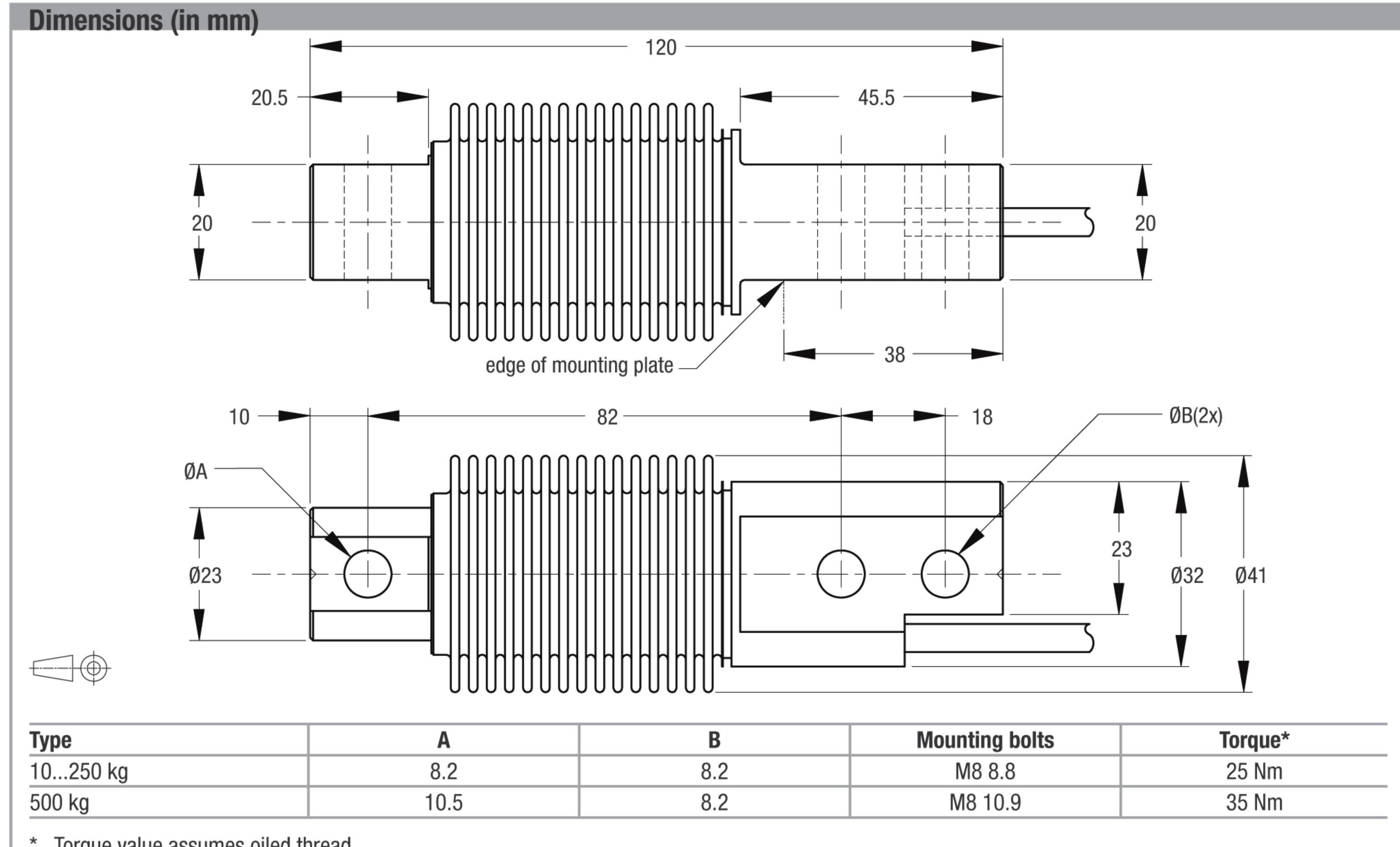
- Compatible range of application hardware
- Compatible range of electronics available



Specifications Maximum capacity	(E _{max})	kg	10 / 20 / 50 / 100 / 200 / 250 / 500		
	(Lmax)	ng			
Accuracy class according to OIML R60	(m)		(GP)		
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	(R0)	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_{RO} are typical values.

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



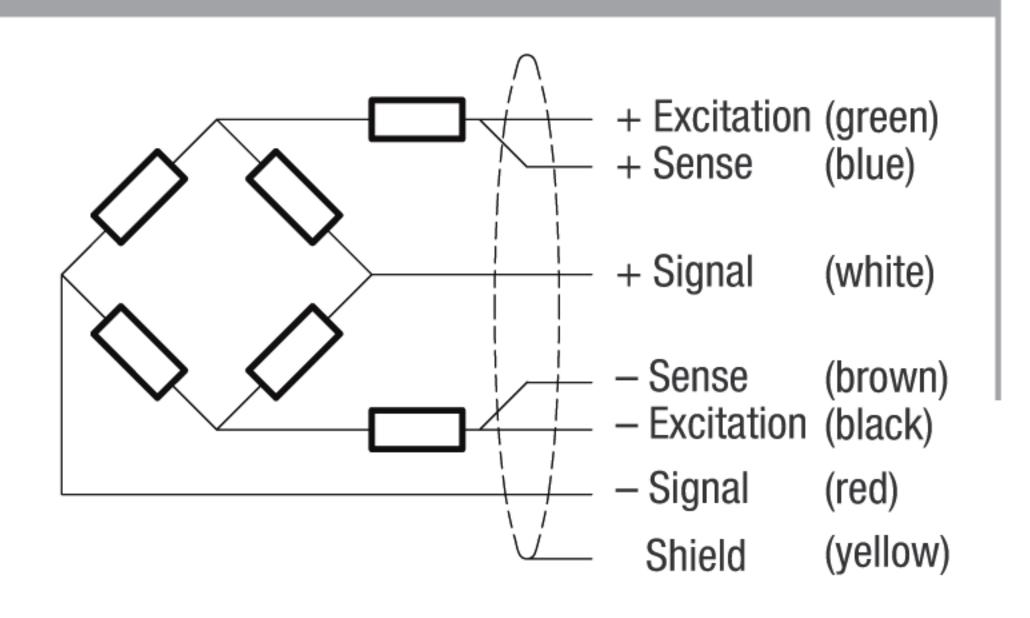
^{*} Torque value assumes oiled thread.

Wiring

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

Cable length: 3 mCable diameter: 5.8 mm

The shield is connected to the load cell body



A103-Rev7-GB-2(2) Dimensions and specifications are subject to change without notice.