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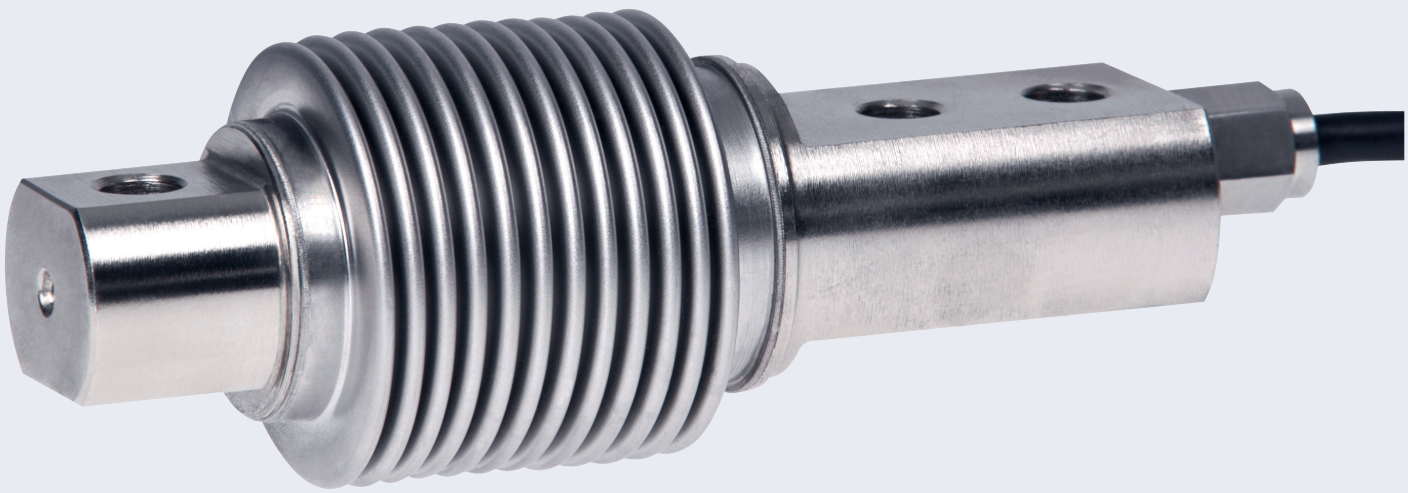
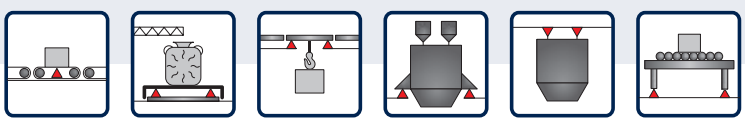
Bending Beam load cell *B10S*





Features

- Material: alloy steel, nickel plated
- Capacity: 50 kg - 500 kg
- Accuracy class C3, Y=10.000
- Approved to OIML R60 up to 3000 d
- Protection class: IP 65
- Design: The measuring element is hermetically sealed and has a calibrated output current
- Robust design for harsh industrial environment
- Low profile
- Compatible with other sources

Scope of application:

- Big-Bag Scales
- Belt scales
- Floor scales and platform scales
- Silo scales, smaller hopper scales and tank scales
- Dosing and bagging scales
- Overhead conveyor scales
- Weighing of smaller tanks
- Packaging machines in the process industry

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Bending Beam load cell *B10S*

Calibratable load cells with bellows

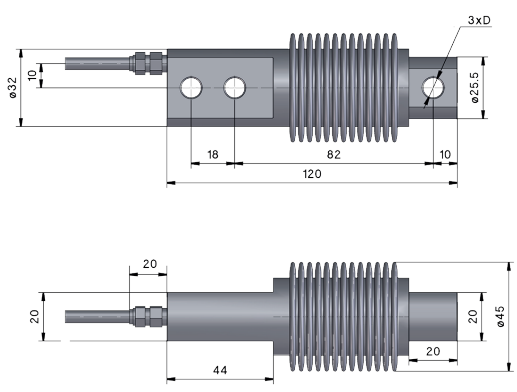
The B10S legal-for-trade bending beam load cells are among the most widely used sensors in weighing technology. The load cells are made of nickel-plated alloy steel and are characterised by high accuracy and linearity. The B10S load cells are legal for trade up to 3000D according to OIML, R60 and provide very precise and reproducible measurement results even in long-term use in harsh industrial environments.

As standard, the load cells are output current calibrated, which allows easy and accurate parallel connection of several load cells. The load cell is laser-welded and meets the requirements of protection class IP65. The hermetically welded bellows allows use even under harsh operating conditions.

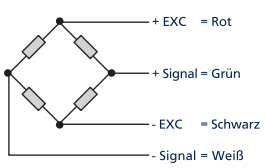
TECHNICAL DETAILS

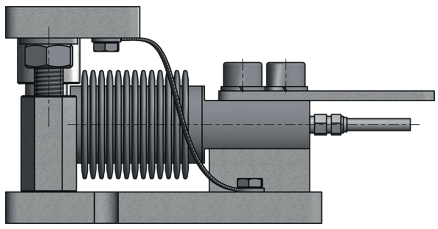
Accuracy class		G3, C3
Nominal load (E_{max})		50 kg, 75 kg, 100 kg, 150 kg, 200 kg, 250 kg
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	2,0 ± 0,002
Characteristic value of the relative minimum division value d. WZ (Y = Emax / vmin):	% from Emax	10.000 %
Minimum preload (E_{min})		0
Limit load (EL) **Breaking load (Ed)**	% from Emax	120 150
Recommended supply voltage (Uref) **Maximum permissible supply voltage (BU)**	V	5 - 12 15
Zero adjustment	% v. Cn	≤ ± 5%
Input resistance (RLC) at reference temperature	Ω	400 ± 20
Output resistance (RO) at reference temperature	Ω	352 ± 3
Insulation resistance	MΩ	>5.000
Nominal temperature range (BT)	°C	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 65
Cable length	m	3 m
Material		Alloy steel

TECHNICAL DRAWINGS



Elektrischer Anschluss
4 -Leiter - Kabel





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