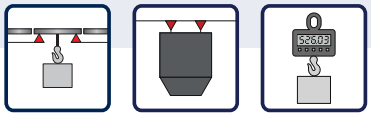
BOSCHE
WÄGETECHNIK

S-Type load cell *S21S*



Features

- Material: Nickel plated alloy steel construction
- Capacity: 2.000 - 5.000 kg
- Protection class: IP 65
- Design: The measuring element is hermetically sealed and laser-welded
- Robust design for harsh industrial environment
- Particularly robust for heavy duty industrial use

Scope of application:

- Train scales,
- hybrid scales conversion,
- tank weighing,
- dosing, crane scales,
- BIG-BAG scales,
- suspended hopper scales,
- filling and mixing systems.
- As force absorber (calibrated in Newton)

+49 (0) 5491.999.689.0
www.bosche.eu

BOSCHE
WÄGETECHNIK

S-Type load cell *S21S*

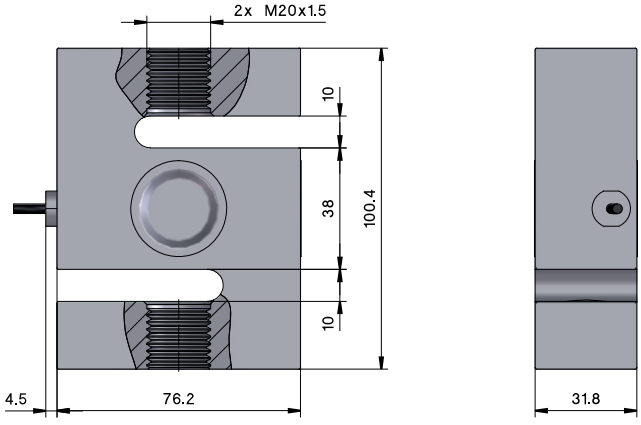
Load cell for measuring tensile and compressive forces

The S-shaped S21S load cell was specially designed for measuring tensile and compressive forces. A centric thread in the upper and lower part of the load cell ensures optimal force application in tension and compression direction. The load cells are made of high-alloy tool steel and are characterised by high accuracy and linearity.
The S21S load cells deliver extremely precise and reproducible measurement results even in long-term use in harsh industrial environments. The load cell is laser-welded and meets the requirements of protection class IP65. Due to simple integration possibilities and good dynamic behaviour, these load cells are often offered as force transducers and calibrated in Newton.

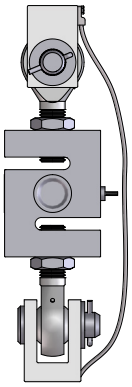
TECHNICAL DETAILS

Accuracy class according to OIML R 60:		0,03
Nominal load (E_{max})	kg	2.000, 5.000
Number of division values (n_{LC})		3000
Nominal value (C_n) / Characteristic tolerance	mV/V	2,0 ± 0,003
Minimum preload (E_{min})		0
Limit load (EL) **Breaking load (Ed)**	% from Emax	120 200
Recommended supply voltage (Uref) **Maximum permissible supply voltage (BU)**	V	5 - 12 15
Zero adjustment	% v. Cn	≤ ± 1
Input resistance (RLC) at reference temperature	Ω	400 ± 10
Output resistance (RO) at reference temperature	Ω	352 ± 2
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		2,6 m
Material		Alloy steel

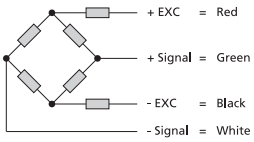
TECHNICAL DRAWINGS



Example of mounting



Electrical connection
4-wire cable



+49 (0) 5491.999.689.0
www.bosche.eu

BOSCHE GmbH & Co. KG
Reselager Rieden 3
49401 Damme