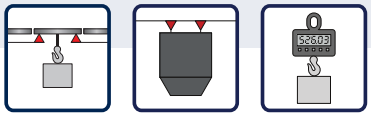
BOSCHE
WEIGHING SYSTEMS

S-Type load cell *S20S*



Features

- Material: Alloyed steel
- Capacity: 100 - 1.000 kg
- Accuracy Class C3, Y=3.500
- Approved to OIML R60 up to 3000d; Test certificate number: DK0199-R60-12.27 (up to 500 kg)
- Design: The measuring element is sealed and has trimmed output
- Protection class: IP66
- Load introduction by symmetrical tapped holes at the top and bottom of the load cell
- Particularly robust for heavy duty industrial use
- Compatible with other sources

Typical application

- Hybrid scales
- Hopper scales
- Crane scales
- Tensile testing machines
- Tank weighing, filling, dosing and mixing plants
- BIG-BAG scales
- Medical lifter scales
- Hanging hopper scales

+49 (0) 5491.999.689.0
www.bosche.eu

BOSCHE
WEIGHING SYSTEMS

S-Type load cell *S20S*

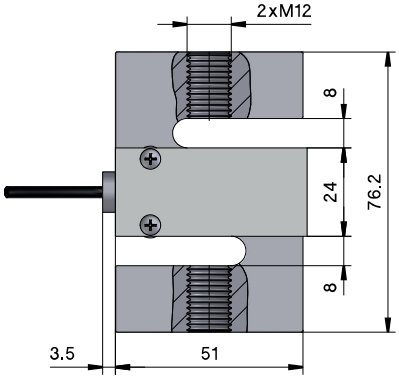
Load cell with high accuracy and linearity

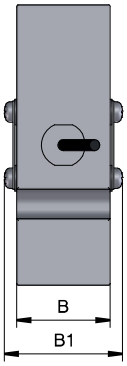
The S-type load cell S20S was designed specifically for measuring tensile and pressure forces. A central coil in the upper and lower part of the load cell ensures an optimal transmission of force in the tensile and pressure direction. The S-type load cells are made of stainless steel and are characterized by high accuracy and linearity. The S-type load cell S20S is approved to OIML R60 up to 3000d (up to 500kg). The load cell S20S gives extremely accurate reproducible results over a long term even in harsh industrial environments. The load cell is potted and meets the requirements of protection class IP66. By simple integration options and a good dynamic behavior, these load cells are often offered as force transducers and calibrated in Newtons.

TECHNICAL DETAILS

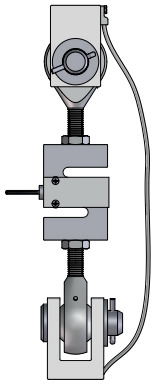
Accuracy class OIML R 60		C3, 0,03
Maximum capacity (E_{max})	kg	100, 200, 300, 500, 750, 1.000
Max. number of load cell intervals (n_{LC})		3000
Output sensitivity (C_n) / Sensivity tolerance	mV/V	2,0 ± 0,003
Minimum dead load (E_{min})		0
Safe overload (E_L) **Ultimate overload (E_d)**	% of Emax	120 200
Excitation, recommended (U_{ref}) **Excitation, maximum (B_U)**	V	5 - 12 15
Zero balance	% v. Cn	± 3
Input resistance (R_{LC})	Ω	400 ± 10
Output resistance (R_o)	Ω	352 ± 2
Insulation resistance	MΩ	> 5 000
Nominal temperature range (B_T)	°C	- 10 ... + 40
Protection class (DIN 40.050 / EN 60529)		IP 66
Material		Alloyed steel

TECHNICAL DRAWING



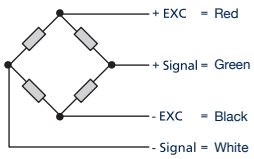


Example of installation



Electrical connection

4-wire-cable



Load	B	B1
100 - 750 kg	19,1	25,05
1000 kg	25,4	30,95

+49 (0) 5491.999.689.0
www.bosche.eu

BOSCHE GmbH & Co. KG
Reselager Rieden 3
49401 Damme