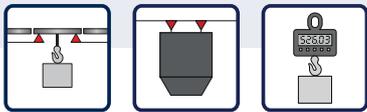


## S-Type load cell S20S



### Features

- ▶ Material: Alloy steel
- ▶ Nominal load: 100 - 1,000 kg
- ▶ Accuracy class C3,  $\gamma=3,500$
- ▶ Verifiable according to OIML R60 up to 3000D; test certificate number: DK0199-R60-12.27 (up to 500 kg)
- ▶ Construction: The measuring element is encapsulated and output current calibrated
- ▶ Protection class: IP66
- ▶ Load introduction: Threaded hole on both sides
- ▶ Particularly robust for tough continuous use in industrial applications
- ▶ Compatible with other manufacturers

### Scope of application:

- ▶ Hybrid scales
- ▶ Silo scales
- ▶ Crane scales
- ▶ Tractive force testing machines
- ▶ Tank weighing, filling, dosing and mixing systems
- ▶ BIG-BAG scales
- ▶ medical lift scales
- ▶ hanging hopper scales



## S-Type load cell S20S

### Load cell with high accuracy and linearity

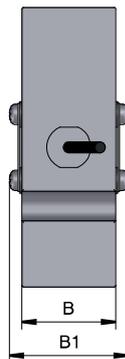
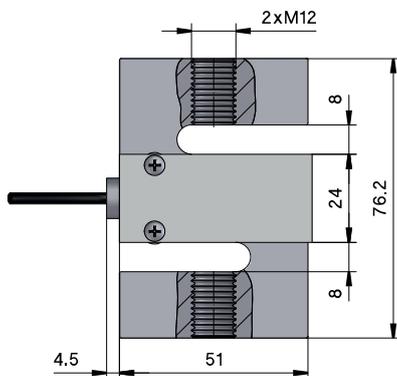
The S-shaped S20S load cell was specially designed for measuring tensile and compressive forces. A centric thread in the upper and lower part of the load cell ensures optimal force application in tension and compression direction. The S load cells are made of nickel-plated, high-alloy tool steel and are characterised by high accuracy and linearity. The S20S load cell is legal for trade in the load up to 500 kg to 3000D according to OIML,

R60 and provides extremely precise and reproducible measurement results even in long-term use in harsh industrial environments. The load cell is potted and meets the requirements of protection class IP66. Due to simple integration possibilities and good dynamic behaviour, these load cells are often offered as force transducers and calibrated in Newton.

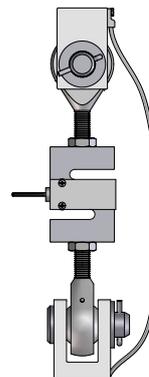
### TECHNICAL DETAILS

Accuracy class according to OIML R 60:		C3, 0,03
Nominal load ( $E_{max}$ )	kg	100, 200, 300, 500, 750, 1.000
Number of division values ( $n_{LC}$ )		3000
Nominal value ( $C_n$ ) / Characteristic tolerance	mV/V	$2,0 \pm 0,003$
Minimum preload ( $E_{min}$ )		0
Limit load (EL)	% von $E_{max}$	120
Breaking load ( $E_d$ )		200
Recommended supply voltage ( $U_{ref}$ )	V	5 - 12
Maximum permissible supply voltage (BU)		15
Zero adjustment	% v. $C_n$	$\pm 3$
Input resistance (RLC) at reference temperature	$\Omega$	$400 \pm 10$
Output resistance (RO) at reference temperature	$\Omega$	$352 \pm 2$
Insulation resistance	M $\Omega$	> 5 000
Nominal temperature range (BT)	$^{\circ}C$	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 66
Material		Alloy steel

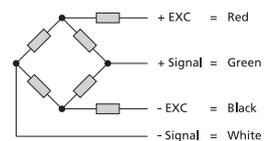
### TECHNICAL DRAWINGS



### Example of mounting



### Electrical connection 4-wire cable



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