BOSCHE
WÄGETECHNIK

Shear beam load cell *K20N*

Features

- Material: Stainless steel
- Nominal load: 1,000 - 5,000 kg
- Accuracy class C3, Y=8,000
- Calibratable in compliance with OIML R60 to 3000D; test certificate number: DK0199-R60-12.22
- Hermetically encapsulated - laser-welded, protection class: IP66
- Structure: The measuring element is hermetically encapsulated and output current calibrated
- Particularly robust for long-term use in industrial applications
- Force transmission via blind hole
- Compatible with other manufacturers

Scope of application:

- Larger platform scales
- Floor scales
- Hopper scales
- Silo scales
- Big bag scales
- Checkweighers
- For force measurements in the testing machine and process industry

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Shear beam load cell *K20N*

Calibratable shear beam load cell for industrial scales

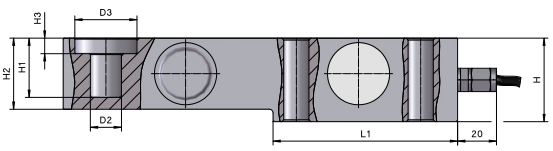
The K20N shear beam load cells are among the most widely used sensors in weighing technology. The load cells are made of high-alloy stainless steel and are characterised by high accuracy and linearity. The K20N load cells are legal for trade up to 3000D according to OIML, R60 and provide extremely precise and reproducible measurement results even in long-term use in harsh industrial environments.

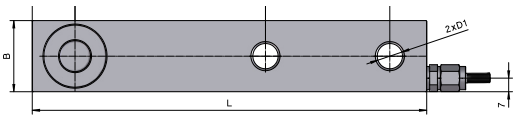
As standard, the load cells are output current calibrated, which enables easy and accurate parallel connection of several load cells. The shear beam load cell is laser-welded and meets the requirements of protection class IP66.

TECHNICAL DETAILS

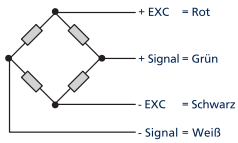
Accuracy class according to OIML R 60		C3
Nominal load (E_{max})	kg	1.000, 2.000, 5.000, 10.000
Number of division values (n_{LC})		3000
Nominal characteristic value (Cn) / characteristic value tolerance	mV/V	2,0 / ± 0,004 mV/V
Minimum preload (E_{min})		0
Characteristic value of the relative minimum division value d. WZ (Y = Emax / vmin):		10.000 % von Emax
Limit load (EL)		150 % von Emax
Breaking load (Ed)		200 % von Emax
Recommended supply voltage (Uref)	V	5 - 12
Maximum permissible supply voltage (BU)	V	15
Zero adjustment		± 3 % v. Cn
Input resistance (RLC) at reference temperature	Ω	350 ± 3.5
Output resistance (RO) at reference temperature	Ω	350 ± 3
Insulation resistance	MΩ	>5.000
Cable length		5 m
Nominal temperature range (BT)	°C	- 10 ... + 40
Protection class according to (DIN 40.050 / EN 60529)		IP 66
Material		Stainless steel

TECHNICAL DRAWINGS





Elektrischer Anschluss
4 -Leiter - Kabel



Nominal load, t	L	L1	L2	L3	L4	B	D1	D2	D3	H	H1	H2	H3
0.5, 1, 2, 3	203	95	64	98	22	36.6	13	16	32	43	30.5	36.6	8
5	235	110	66	124	22	48	21	22	38	52	30	48	12

Alle Angaben in mm I Technische Änderungen vorbehalten

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