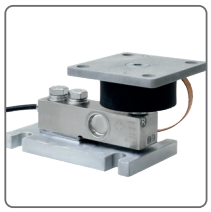
BOSCHE
WEIGHING SYSTEMS

Weighing module *K30-ME*

Features



- Ideal for hopper or tank weighing applications
- Material: Galvanised load module; load cell optionally made of K30N stainless steel or K30S alloyed steel
- Nominal load: 500 kg - 1000 kg
- Load cell hermetically sealed
- Rubber-metal bearing for compensation of misalignments, shock loads and slight vibrations
- Elastomer bearings with self-centring restoring forces
- Particularly robust for long-term use in industrial applications
- Easy to mount due to mounting flange
- Low construction height
- Limited tilt protection

Area of application

- Weighing of small and medium containers, mixers and tanks
- Dispensing and bagging scales, packaging machine
- Weighing in the process industry

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WEIGHING SYSTEMS

Weighing module *K30-ME*

Calibratable weighing module made of stainless steel, with base plate and rubber-metal bearing force receptor

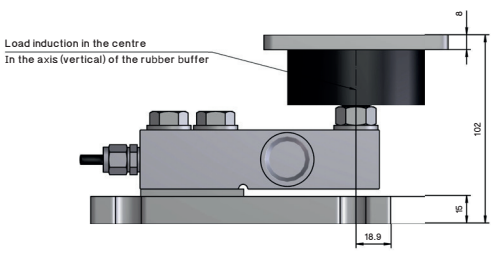
The K30-ME mounting kit was specially developed for the shear beam load cells of the K30 series. A rubber-metal bearing, which compensates for the lateral forces and at the same time positions the load carrier, ensures optimal force reception. The base and bottom plate is made of galvanised steel. Optionally, K30N load cells, made of non-corrosive steel or the K30S, made of alloyed steel, can be installed.

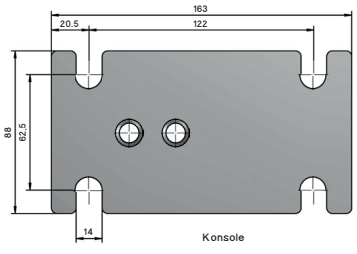
The load cells are calibratable up to 3000D in accordance with OIML R60. They deliver very precise and reproducible measurement results even in long-term use in harsh industrial environments. The load cells are output power calibrated by default, which enables simple and accurate parallel connection of several load cells. The load cells are laser-welded and fulfil the requirements of protection class IP68.

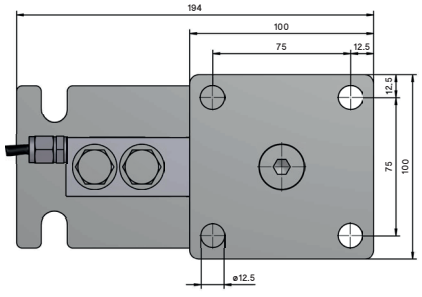
TECHNICAL DETAILS

Accuracy class		G3, C3
Maximum capacity (E_{max})	kg	500, 1.000, 2.000, 2.500, 5.000, 10.000
Maximum number of intervals(n_{LC})		3000
Output sensitivity (C_n) / Tolerance	mV/V	3,0 ± 0,003
Minimum dead load (E_{min})		0
Ratio of min LC verification interval (Y = Emax / vmin):		10.000 % of Emax
Limit load (EL)		120 % of Emax
Breaking load (Ed)		200 % of Emax
Recommended supply voltage (Uref)	V	5 - 12
Excitation, maximum (BU)	V	15
Zero balance		± 3 % v. Cn
Input resistance (RLC) at reference temperature	Ω	400 ± 20
Output resistance (RO) at reference temperature	Ω	352 ± 3
Insulation resistance	MΩ	>5.000
Cable length		On request
Nominal temperature range (BT)	°C	- 10 ... + 40
Operating temperature range (Btu)	°C	- 30 ... + 70
Protection class (DIN 40.050 / EN 60529)		IP 68
Material		Alloyed steel

TECHNICAL DRAWINGS







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