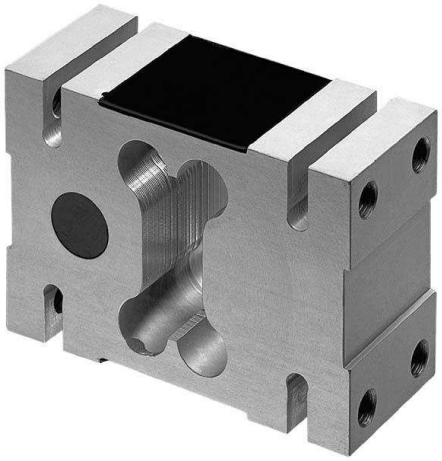
Single point load cell for heavy duty-platforms



Description

Single point force transducers are particularly suitable for use in platforms as they can be mounted directly under a platform without additional design and levelling costs.

Basically this force transducer can be used in countless applications where high accuracy and simple installation are required.

The force transducer is easy to operate due to the simple way the force is applied. It is applied vertically to the force transducer axis.

Note

The load cells are to be mounted on an even surface.

The permitted load direction is marked with an arrow symbol.

Features

- for heavy duty-platforms
- high of assembly
- low installation height
- ease of force input
- Protection type IP 65

Measuring ranges

- 750 ... 2.000 kg

Applications

- Special weighing scales
- Measurement and control instruments
- Test equipment etc.

Model: F4225

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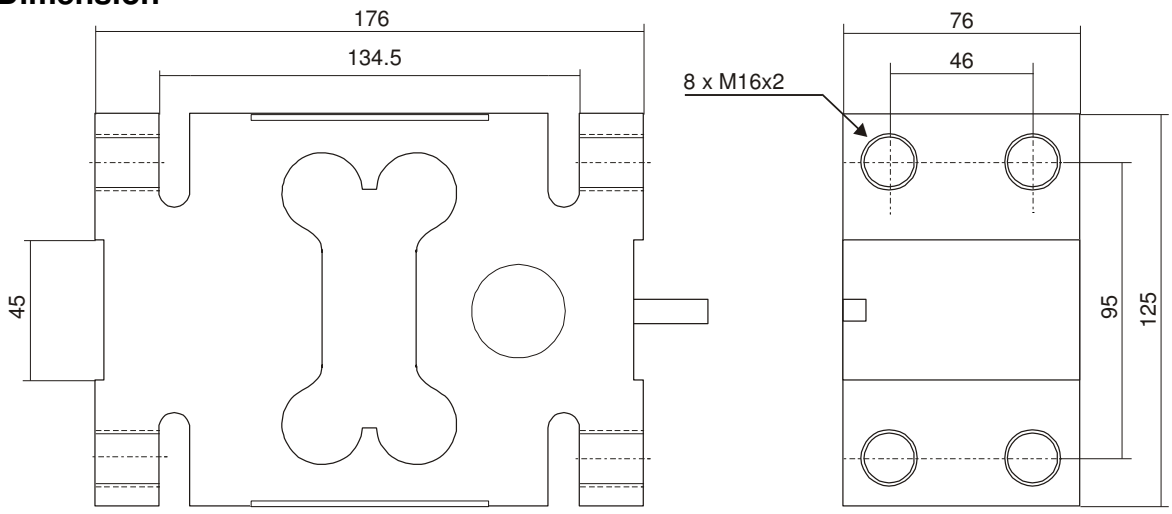
Technical data

Model	**F4225**
Nominal load F_{nom}	750, 1000, 2000 kg
Platform dimensions	1200 x 1200 mm
Accuracy class	0.02% of F.S.
Limit load	150% F_{nom}
Breaking load	> 200% F_{nom}
Combined error	≤±0.02% of F.S.
Creep, 30 min. at F_{nom}	≤±0.03% of F.S.
Zero return after 30 min. at nominal load	0,03%
Nominal deflection	< 1 mm
Nominal temperature range	-10 bis +40°C
Service temperature range	-20 bis +60°C
Storage temperature range	-40 bis +70°C
Reference temperature range	23°C
Tempeature effect -span -zero	≤± 0.015% of F.S. / 10 K ≤± 0.026% of F.S. / 10 K
Protection type (acc. to EN 60529/IEC 529)	IP 65
Insulation resistance	> 5 GΩ / 50 V
Analogue output	
- Output signal	2 mV/V
- Bridge resistance	Input: 410 ± 10Ω Output: 350 ± 3Ω
- Tolerance of span	≤± 10% of F.S.
- Zero	≤± 3% of F.S.
- Excitation voltage	10 V (max. 15 V)
- Electrical connection	cable, 4-wire, shielded
Material of measuring device	Aluminium

v.EW. = vom Messbereichsendwert

Dimension



Electrical connection		
	4-wire	6-wire
Supply (-)	black	yellow
Supply (+)	red	red
Signal (+)	green	blue
Signal (-)	white	white
Sense (+)	-	brown
Sense (-)	-	black
Screen	Screen	transparent

Subject to technical changes