Single point load cell
Up to 500 kg
Model F4818

Applications

- Electronic precision scales
- Industrial weighing systems
- Test devices

Special features

- Measuring ranges 0 … 20 kg up to 0 ... 500 kg
- Made of aluminum
- High accuracy
- Insensitive to side and corner loads
- Simple structure, easy to install

Single point load cell, model F4818

Description

Single point load cells are especially designed to be used in platform trucks. They can be mounted under the platform without any further construction or calibration processes.

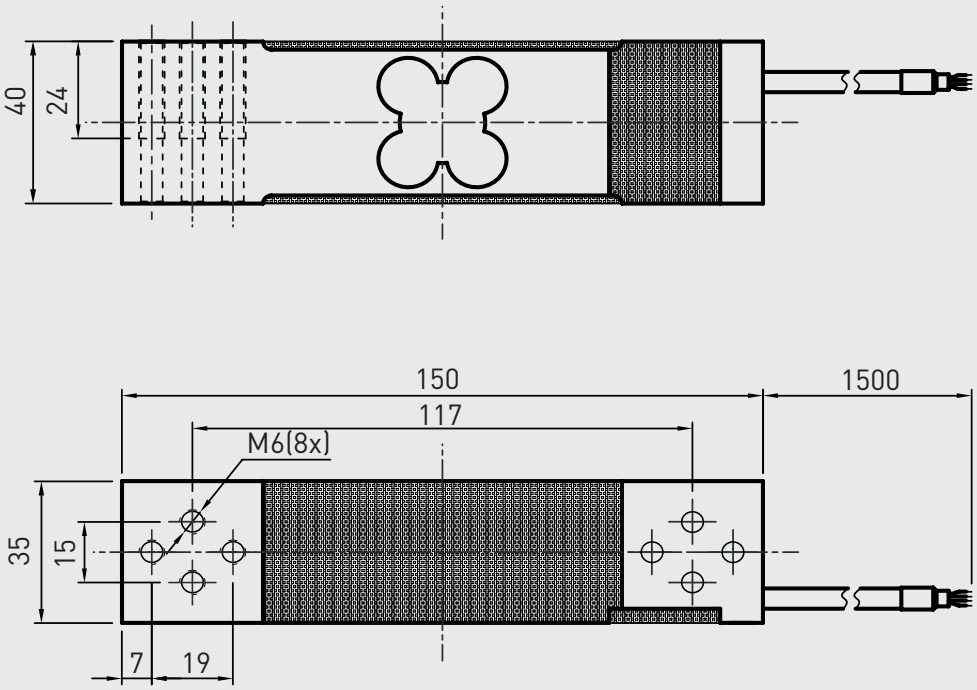
The load cell is easy to operate due to its simple way of the force direction. It applied vertically to the load cell axis.

Note
The single point load cells are to be mounted on an even surface. The permitted load direction is marked with an arrow symbol.

Specifications in accordance with VDI/VDE/DKD 2638

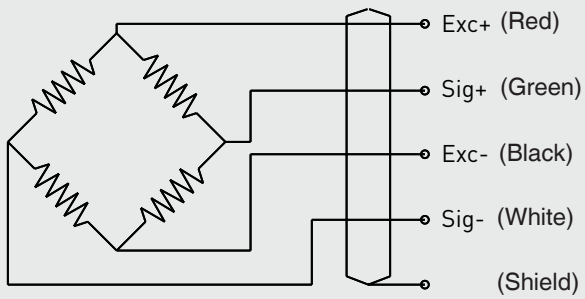
Model F4818	
Nominal load F_{nom} kg	20, 30, 50, 60, 100, 150, 200, 250, 300, 350, 500
Relative linearity error d_{lin}	±0.02 % F_{nom}
Relative creep, 30 min.	±0.02 % F_{nom}
Relative reversibility v	±0.02 % F_{nom}
Relative deviation of zero signal $d_{S, 0}$	±2 % F_{nom}
Temperature effect on zero signal TK_0	≤ ±0.025 %/10 °C
Temperature effect on characteristic value TK_C	≤ ±0.025 %/10 °C
Force limit F_L	120 % F_{nom}
Breaking force F_B	200 % F_{nom}
Material	Aluminium
Rated temperature range $B_{T, nom}$	-10 … +40 °C
Operating temperature range $B_{T, G}$	-20 … +60 °C
Input resistance R_e	410 ± 10 Ω
Output resistance R_a	350 ± 5 Ω
Insulation resistance R_{is}	≥ 2,000 MΩ/DC 100 V
Output signal (rated output) C_{nom}	2.0 ± 10 % mV/V
Electrical connection	Cable Ø 5 x 1,500 mm
Rated range of excitation voltage $B_{U, nom}$	10 V (max. 15 V)
Protection (acc. to IEC/EN 60529)	IP65
Platform size	450 x 450 mm
Weight in kg	0.6

Dimensions in mm



Pin assignment

Electrical connection	
Excitation voltage (+)	Red
Excitation voltage (-)	Black
Signal (+)	Green
Signal (-)	White
Screen ⏚	Screen



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