Force

Single point load cell Up to 10 kg Model F4802

WIKA data sheet FO 53.13

Applications

- Electronic precision scales
- Industrial weighing systems
- Medical engineering



- Measuring ranges 0 ... 0.3 kg up to 0 ... 10 kg
- Made of aluminum alloy
- High accuracy
- Insensitive to side and corner loads
- Simple structure, easy to install



Single point load cell, model F4802

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 F4802		
Nominal load F _{nom} kg	0.3/0.5/1/1.5/2/3/4/5/10	
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	≤ ±0.02 %/10 °C	
Temperature effect on characteristic value TK_{C}	≤ ±0.02 %/10 °C	
Force limit FL	150 % 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	$410 \pm 10 \Omega$	
Output resistance R _a	$350 \pm 5 \Omega$	
Insulation resistance R _{is}	≥ 2,000 MΩ/DC 100 V	
Output signal (rated output) C _{nom}	2.0 ± 1 % mV/V	
Electrical connection	Cable Ø 3 x 450 mm	
Rated range of excitation voltage B _{U, nom}	10 V (max. 15 V)	
Protection (acc. to IEC/EN 60529)	IP65	
Platform size	200 x 200 mm	
Weight in kg	0.1	

Dimensions in mm



Pin assignment

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



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