A division of the WIKA Group

Single point load cell 0...50 kg up to 0...650 kg Model F4812

Applications

- Platform scales
- Electronic precision scales
- Industrial weighing systems

Special features

- Measurement ranges 0...50 kg up to 0...650 kg
- Made of aluminum alloy
- High side load tolerance
- Simple structure
- Easy to install

Description

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

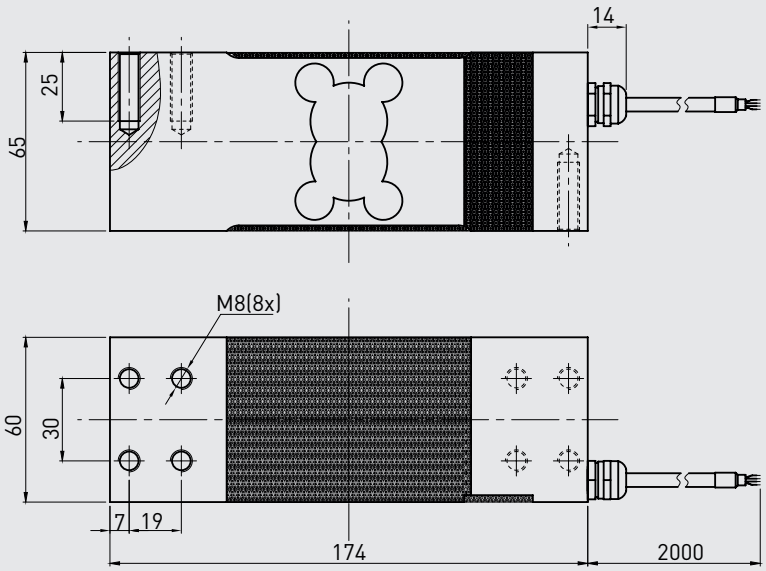
The load cell is easy to operate due to its simple way of the force direction. It applied vertically to the load cell axis.

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

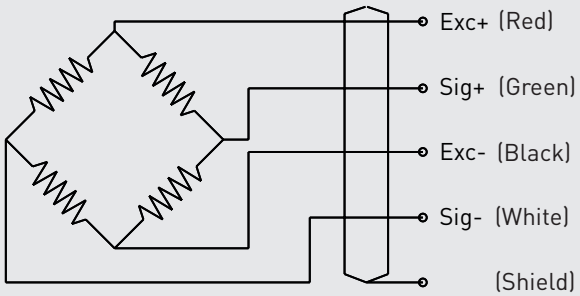
Specifications in accordance with VDI/VDE/DKD 2638

Model series	Symbol	Unit	F4812							
Measurement range										
Nominal load	F_{nom}	**kg**	50	100	150	200	250	300	500	650
Accuracy and stability										
Relative linearity error	d_{lin}	**x%F_{nom}**	±0.02							
Relative reversibility	**v**	**x%F_{nom}**	±0.02							
Relative repeatability error in unchanged mounting position	b_{rg}	**x%F_{nom}**	±0.02							
Relative deviation of zero signal	$d_{S, 0}$	**x%F_{nom}**	±2							
Relative creep, 30 at min.		**x%F_{nom}**	±0.02							
Temperature effect on zero signal	TK_0	**%/10 °C**	< ±0.025							
Temperature effect on characteristic value	TK_C	**%/10 °C**	< ±0.025							
Mechanical characteristics										
Force limit	F_L	**x%F_{nom}**	150							
Breaking force	F_B	**x%F_{nom}**	200							
Material			Aluminum							
Temperature ranges										
Rated temperature range	$B_{T, nom}$	**°C**	-10...40							
Operating temperature range	$B_{T, G}$	**°C**	-20...60							
Electrical characteristics										
Output signal (rated output)	C_{nom}	**mV/V**	2.0 ± 10 %							
Input resistance	R_e	Ω	410 ± 10							
Output resistance	R_a	Ω	350 ± 5							
Insulation resistance	R_{is}	**MΩ**	> 2,000/DC 100 V							
Recommended excitation voltage		**V**	10							
Maximum excitation voltage		**V**	15							
Electrical connection			Cable Ø 5 x 2,000 mm							
General data										
Protection (acc. to EN/IEC 60529))			IP65							
Platform size		**mm**	450 x 550							
Weight		**kg**	1.8							

Dimensions in mm



Pin assigment



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

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