

# Single point load cell For Heavy Duty platforms 0...100 kg up to 0...2,000 kg Model F4817

### **Applications**

- Platform scales
- Filling scales
- Belt scales
- Packaging scales
- Dynamic testing system

#### **Special features**

- Measurement ranges 0...100 kg up to 0...2,000 kg
- Made of aluminum alloy
- High accuracy
- 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.

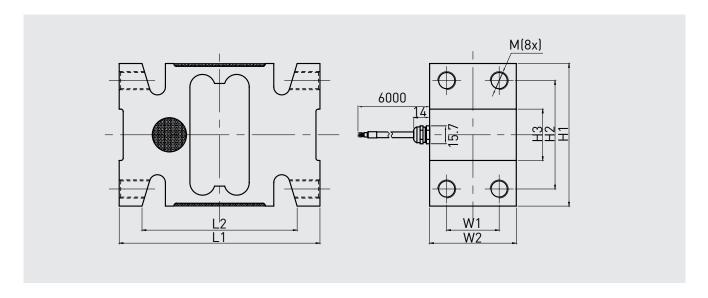
#### Note

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

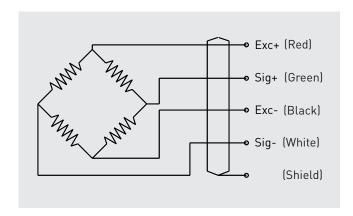
Model series	Symbol	Unit	F4812					
Measurement range								
Nominal load	F <sub>nom</sub>	kg	100	150	200	300	500	600
			750	800	1,000	1,500	2,000	
Accuracy and stability								
Relative linearity error	d <sub>lin</sub>	x%F <sub>nom</sub>	±0.02					
Relative reversibility	V	x%F <sub>nom</sub>	±0.02					
Relative repeatability error in unchanged mounting position	b <sub>rg</sub>	x%F <sub>nom</sub>	±0.02					
Relative deviation of zero signal	d <sub>S, 0</sub>	x%F <sub>nom</sub>	±2					
Relative repeatability error in unchanged mounting position	b <sub>rg</sub>	x%F <sub>nom</sub>	0.02					
Relative creep, 30 at min.		x%F <sub>nom</sub>	±0.02					
Temperature effect on zero signal	TK <sub>0</sub>	%/10 °C	≤±0.025					
Temperature effect on characteristic value	TK <sub>C</sub>	%/10 °C	€ ±0.025					
Mechanical characteristics								
Force limit	$F_L$	x%F <sub>nom</sub>	F <sub>nom</sub> 150					
Breaking force	F <sub>B</sub>	x%F <sub>nom</sub>	200					
Material			Aluminu	m				
Temperature ranges								
Rated temperature range	B <sub>T, nom</sub>	°C	-1040					
Operating temperature range	B <sub>T, G</sub>	°C	-2060					
Electrical characteristics								
Output signal (rated output)	C <sub>nom</sub>	mV/V	2.0 ± 10 %					
Input resistance	$R_{e}$	Ω	410 ± 10					
Output resistance	$R_a$	Ω	$350 \pm 5$	350 ± 5				
Insulation resistance	R <sub>is</sub>	$\mathbf{M}\Omega$	≥ 2,000/DC 100 V					
Recommended excitation voltage		V	10					
Maximum excitation voltage		٧	15	15				
Electrical connection			Cable Ø 5 x 6,000 mm					
General data								
Protection (acc. to EN/IEC 60529)			IP65					
Platform size		mm	800 x 1,000 (up to 600 kg) 1,200 x 1,200 (up to 750 kg)					
Weight		kg	1.4 (up to 600 kg) 4.7 (from 750 kg)					

### **Dimensions in mm**



Nominal load	Dimensions in mm							
in kg	L1	L2	H1	H2	Н3	W2	W1	М
100, 150, 200, 300, 500, 600	140	-	75	50	30	46	25	M10
750, 800, 1,000, 1,500, 2,000	176	134	125	95	45	76	46	M16

## Pin assigment



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

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The specifications given in this document represent the state of engineering at the time of publishing. We reserve the right to make modifications to the specifications and materials.

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