

Single point load cell Up to 40 kg Model F4882

WIKA data sheet FO 53.17

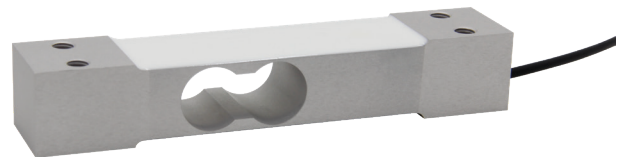
EAC

Applications

- Checkweighers
- Belt weighers, floor and bench scales
- Filling applications
- Dosing systems

Special features

- Measuring ranges 0 ... 3 kg to 0 ... 40 kg
[0 ... 7 lbs to 0 ... 88 lbs]
- Load cell made from aluminium
- High accuracy, react quickly, low settling time
- Insensitive to lateral and corner load
- Simple design, easy installation



Load cell, model F4882

Description

The model F4882 single point load cells are a range of aluminium single point load cells suitable for a wide range of applications. Thanks to their standardised geometry and simple design, they can be easily installed in all types of scales.

The model F4882 load cells are adapted to the special requirements of checkweighers and feature a particularly short settling time, so that the weight of the goods being recorded can be determined as quickly as possible.

The load cells are also suitable for use in sectors such as industry, commerce, medicine and research.

The model F4882 single point load cells also feature high accuracy and react quickly. They are also insensitive to lateral and corner loading.



The load cells are easy to handle due to their simple force introduction. This is made perpendicular to the geometry.

Specifications per VDI/VDE/DKD 2638

Model F4882								
Rated load F_{nom} kg	3	5	7	10	15	20	30	40
Rated load F_{nom} lbs	7	11	15	22	33	44	66	88
Relative linearity error d_{lin} ¹⁾	$\pm 0.02 \% F_{nom}$							
Relative creep. 30 min.	$\pm 0.02 \% F_{nom}$							
Relative reversibility error v	$\pm 0.02 \% F_{nom}$							
Relative deviation of zero signal $d_{S,0}$	$\pm 5 \% F_{nom}$							
Temperature effect on zero signal TK_0	$\leq \pm 0.014 \% / 10 K$							
Temperature effect on characteristic value TK_C	$\leq \pm 0.02 \% / 10 K$							
Force limit F_L	150 % F_{nom}							
Breaking force F_B	200 % F_{nom}							
Material of the measuring body	Aluminium							
Rated temperature range $B_{T, nom}$	-10 ... +40 °C [14 ... 104 °F]							
Operating temperature range $B_{T, G}$	-20 ... +65 °C [-4 ... 149 °F]							
Input resistance R_e	410 \pm 10 Ω							
Output resistance R_a	350 \pm 5 Ω							
Insulation resistance R_{is}	$\geq 5.000 M\Omega / DC 100 V$							
Output signal (rated characteristic value) C_{nom}	2.0 \pm 0.2 mV/V							
Electrical connection	Measuring cable $\varnothing 4 \times 400$ mm [$\varnothing 0.157 \times 15.75$ in]							
Supply voltage $U_{B, nom}$	DC 5 ... 10 V (max. 15 V)							
Ingress protection (per IEC/EN 60529)	IP67							
Platform size	300 x 300 mm [11.81 x 11.81 in]							
Weight	0.25 kg [0.55 lbs]							

1) Relative linearity error is specified in accordance with guideline VDI/VDE/DKD 2638 chap. 3.2.6

Approvals

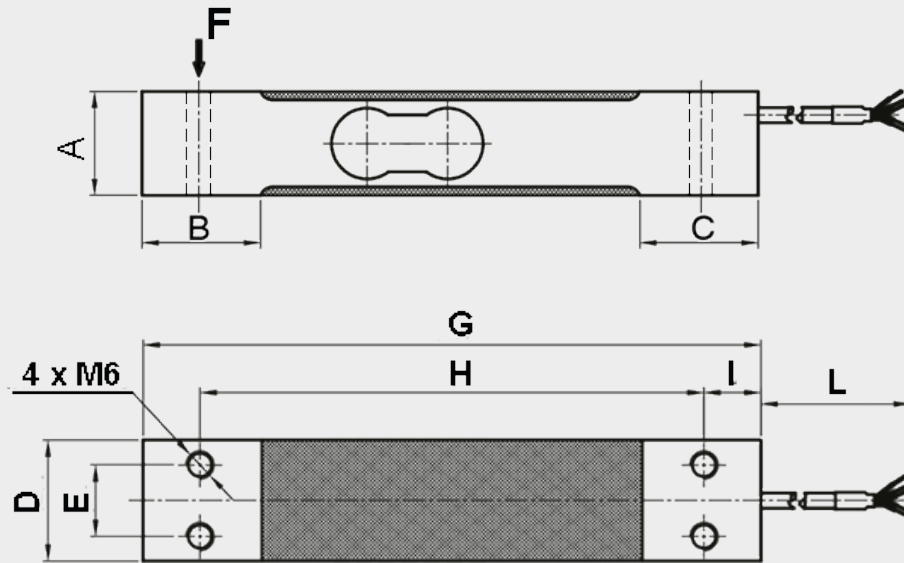
Logo	Description	Region
	EU declaration of conformity RoHS directive	European Union
	UKCA RoHS directive	United Kingdom

Optional approvals

Logo	Description	Region
	EAC	Eurasian Economic Community

Dimensions in mm [in]

Model F4882



Dimensions in mm

A	B	C	D	E	G	H	I	L
22	25	25	25.4	15	130	106	12	400 ±20

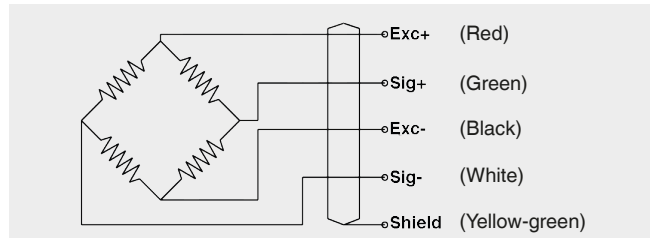
Dimensions in inch

A	B	C	D	E	G	H	I	L
0.87	0.98	0.98	1	0.59	5.12	4.17	0.47	15.75 ±0.79

Pin assignment

Electrical connection

Supply voltage+	Exc+	Red
Supply voltage-	Exc-	Green
Signal+	Sig+	Black
Signal-	Sig-	White
Shield ⊕	Shield	Yellow-green



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 We reserve the right to make modifications to the specifications and materials.
 In case of a different interpretation of the translated and the English data sheet, the English wording shall prevail.

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