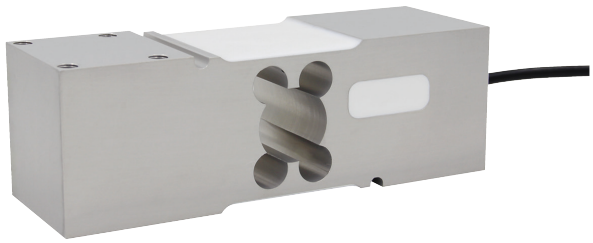
Single point load cell
Up to 635 kg
Model F4884

Applications

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

Special features

- Measuring ranges 0 ... 50 kg to 0 ... 635 kg [0 ... 110 lbs and 0 ... 1,400 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 F4884

Description

The model F4884 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 F4884 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 F4884 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.

Smart in sensing

Data sheets showing similar products:

Single point load cell up to 30 kg; model F4881; see data sheet FO 53.16
Single point load cell up to 40 kg; model F4882; see data sheet FO 53.17
Single point load cell up to 300 kg; model F4883; see data sheet FO 53.18
Single point load cell up to 200 kg; model F4885; see data sheet FO 53.20

Specifications per VDI/VDE/DKD 2638

Model F4884									
Rated load F_{nom} kg	50	75	100	150	200	250	300	500	635
Rated load F_{nom} lbs	110	165	220	331	441	551	661	1,102	1,400
Relative linearity error d_{lin} 1)	±0.02 % F_{nom}								
Relative creep, 30 min.	±0.02 % F_{nom}								
Relative reversibility error v	±0.02 % F_{nom}								
Relative deviation of zero signal $d_{S, 0}$	±5 % F_{nom}								
Temperature effect on zero signal TK_0	≤ ±0.02 %/10 K								
Temperature effect on characteristic value TK_C	≤ ±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 ±20 Ω								
Output resistance R_a	350 ±5 Ω								
Insulation resistance R_{is}	≥ 5,000 MΩ/DC 100 V								
Output signal (rated characteristic value) C_{nom}	2.0 ±0.2 mV/V								
Electrical connection	Measuring cable Ø 5 x 2,000 mm [Ø 0.197 x 78.74 in]								
Supply voltage $U_{B, nom}$	DC 5 ... 10 V (max. 15 V)								
Ingress protection (per IEC/EN 60529)	IP67								
Platform size	600 x 600 mm [23.62 x 23.62 in]								
Weight	2 kg [4.41 lbs]								

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

Approvals

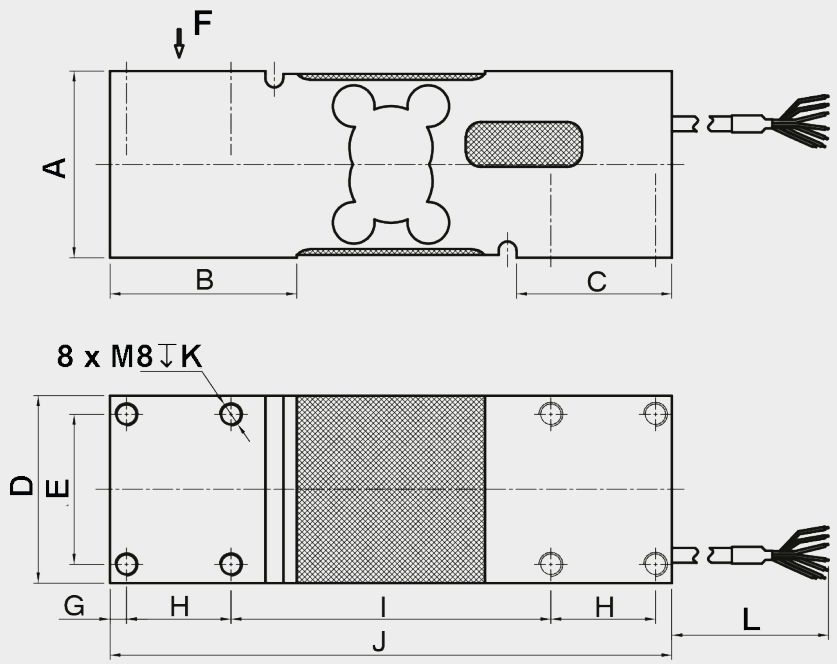
Logo	Description	Region
CE	**EU declaration of conformity** RoHS directive	European Union
UKCA	**UKCA** RoHS directive	United Kingdom

Optional approvals

Logo	Description	Region
EAC	**EAC**	Eurasian Economic Community

Dimensions in mm

Model F4884

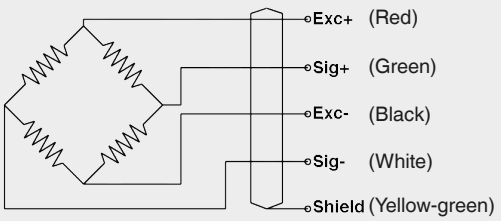


Dimensions in mm										
A	B	C	D	E	G	H	I	J	K	L
62.3	62.5	52	62.5	50	5.5	35	107	188	20	2,000 ±100

Dimensions in inch										
A	B	C	D	E	G	H	I	J	K	L
2.45	2.46	2.05	2.46	1.97	0.22	1.38	4.21	7.4	0.79	78.74 ±3.94

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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