

Single point load cell

Up to 200 kg

Model F4885

WIKA data sheet FO 53.20

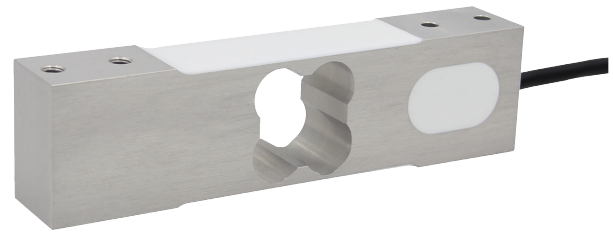
EAC

Applications

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

Special features

- Measuring ranges 0 ... 1 kg to 0 ... 200 kg
[0 ... 2.2 lbs to 0 ... 441 lbs]
- Load cell made from aluminium
- High accuracy (6-wire connection), react quickly, low settling time
- Insensitive to lateral and corner load
- Simple design, easy installation



Load cell, model F4885

Description

The model F4885 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 F4885 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 F4885 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 F4885													
Rated load F_{nom} kg	1	3	5	7	10	15	20	50	75	100	150	200	
Rated load F_{nom} lbs	2.2	7	11	15	22	33	44	110	165	220	331	441	
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 the zero signal TK_0	$\leq \pm 0.014 \% / 10 K$												
Temperature effect on the characteristic value TK_C	$\leq \pm 0.02 \% / 10 K$												
Force limit F_L	150 % F_{nom}												
Breaking force F_B	300 % 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 $\pm 20 \Omega$												
Output resistance R_a	350 $\pm 5 \Omega$												
Insulation resistance R_{is}	$\geq 2,000 M\Omega / DC 100 V$												
Output signal (rated characteristic value) C_{nom}	2.0 $\pm 0.2 mV/V$												
Electrical connection	Measuring cable $\varnothing 5 \times 3,000 mm [\varnothing 0.197 \times 118 in]$												
Supply voltage $U_{B, nom}$	DC 5 ... 10 V (max. 15 V)												
Ingress protection (per IEC/EN 60529)	IP67												
Platform size	450 x 450 mm [17.72 x 17.72 in]												
Weight	0.5 kg [1.1 lbs]												

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

Approvals

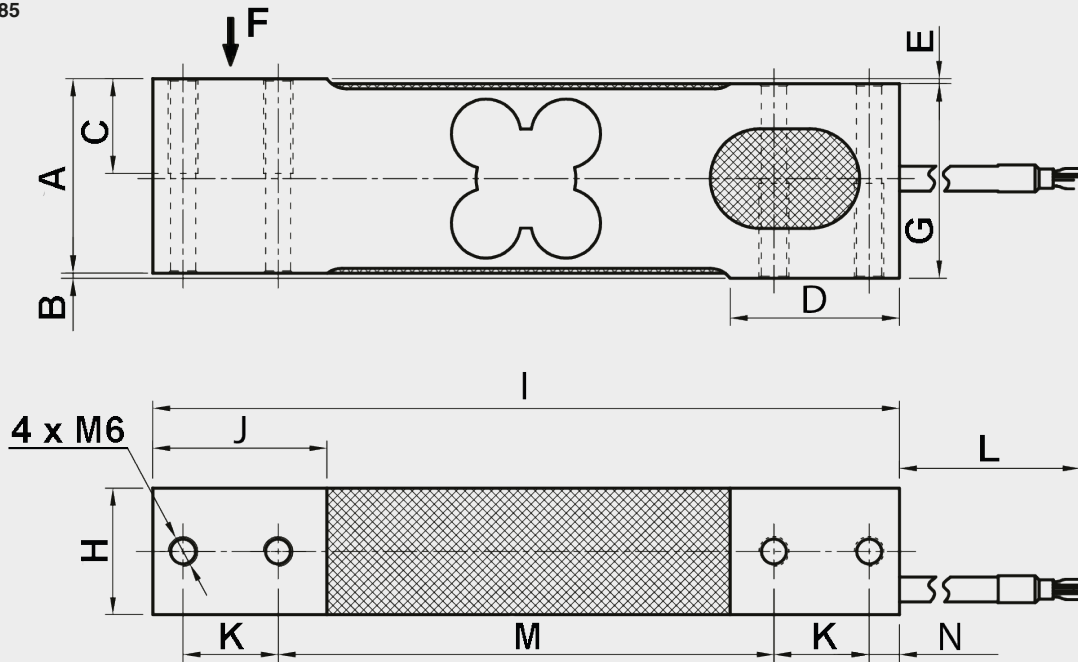
Logo	Description	Region
	EU declaration of conformity RoHS directive	European Union
	UKCA RoHS directive	United Kingdom

Optional approvals

Logo	Description	Region
	EAC	Eurasian Economic Community

Dimensions in mm [in]

Model F4885



Dimensions in mm

A	B	C	D	E	G	H	I	J	K	L	M	N
39	1	19	34	1	39	25.4	150	35	19.1	3,000 ±150	99.6	6.1

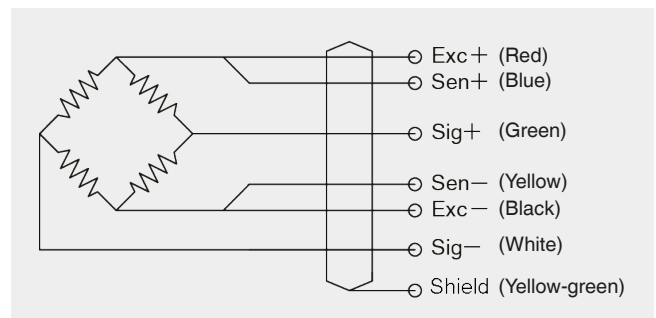
Dimensions in mm inch

A	B	C	D	E	G	H	I	J	K	L	M	N
1.54	0.04	0.35	1.34	0.04	1.54	1	5.91	1.38	7.52	118 ±5.91	39.21	0.24

Pin assignment

Elektrischer Anschluss

Supply voltage+	Exc+	Red
Supply voltage-	Exc-	Black
Signal+	Sig+	Green
Signal-	Sig-	White
Sensor+	Sen+	Blue
Sensor-	Sen-	Yellow
Shield ⊕	Shield	Yellow-Green



© 05/2023 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.
 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.
 In case of a different interpretation of the translated and the English data sheet, the English wording shall prevail.

WIKA data sheet FO 53.20 · 05/2023

Page 3 of 3



WIKAL
WIKAL Alexander Wiegand SE & Co. KG
 Alexander-Wiegand-Straße 30
 63911 Klingenberg/Germany
 Tel. +49 9372 132-0
 info@wika.de
 www.wika.com