

Tension and Compression Load Cell ZA30X with a Rated Load of 500 kg ... 7.5 t



Performance Features

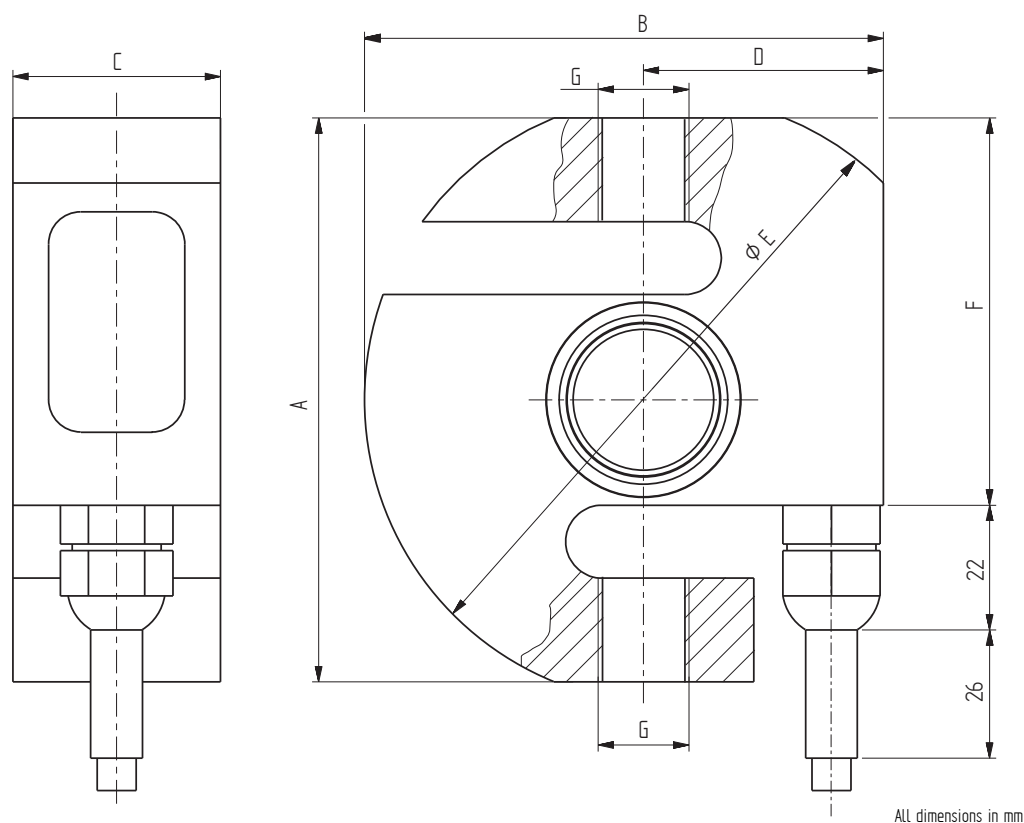
- Tension and Compression load cell made of stainless steel, hermetically welded with protection class IP68
- 3000d OIML R60 approved
- Ideally suited for hanging tension- or compression load cell and force measurement
- Calibrated signal output for multi-load cells mounting
- ATEX 2014/34/EU version for hazardous area (option)

Application

- Food industry
- Coal and steel industry
- Chemical / pharmaceutical industry
- Waste management / recycling
- Packaging technology



Dimensions in mm



Article-No.	Rated Load [t]	Dimensions [mm]							Weight [kg]
		A	B	C	D	Ø E	F	G	
111732	0.5	70	63	32	32	78	50.5	M12	1
111712	1	87	80	32	37	94	59.75	M16	1.5
111713	2								
111754	5	110	107	45	50	118	74.25	M24 x 2	2.9
111755	7.5	130	129	60	60	138	84.75	M30 x 2	5

Connection Assignment

Electrical Connection		
Function	Wire Color	
Excitation (+)	Brown	●
Signal (+)	Yellow	●
Signal (-)	White	○
Excitation (-)	Green	●
Sensing (+)	Gray	●
Sensing (-)	Pink	●

Technical Data

Type	ZA30X	
Version		C3 10e
Rated load E	t	0.5; 1; 2; 5; 7.5
Maximum load for approved weighing E_{max}	t	0.5; 1; 2; 5; 7.5
Accuracy class OIML R60		C3
Maximum numbers of load cell intervals n_{max}	d OIML	3000
Minimum verification interval v_{min}	kg	E/10000
Creep division factor $Z = E_{max}/2 \times DR$	-	3000
Combined error	% E	±0.017
Temperature coefficient of zero signal	% E/°C	±0.0014
Temperature coefficient of characteristic value	% E/°C	±0.0014
Load creep d_{cr, F} in 30 min.	% E	±0.024
Zero balance	% E	±2.5
Rated output at E C_{nom}	mV/V	2
Rated range of excitation voltage B_{U, nom}	V	1 ... 15
Input resistance R_e	Ω	382 ±20
Output resistance R_a	Ω	350 ±5
Insulation resistance R_{is}	MΩ/50V	5000
Signal adjustment	% E	±0.1
Electrical connection		Cable, PVC, 10m
Rated temperature range B_{T, nom}	°C	-10 ... 40
Operating temperature range B_{T, G}	°C	-20 ... 60
Limit load E_{lim}	% E _{max}	150
Breaking load E_b	% E _{max}	300 (7.5t = 200)
Tightening torque	Nm	-
Level of protection		IP68
Material		Stainless steel
Weight	kg	See drawing

Options

Article-No.	Description
107798	ATEX 2014/34/EU, IECEx: ex II 1 G/D, Ex ia IIC T6 Ga, Ex ia IIIC T80 °C Da, IP6X, -20 °C < Ta < +60 °C (zones gaz 0/1/2, dust 20/21/22)
115049	ATEX 2014/34/EU, IECEx: ex II 1 D, Ex ta IIIC T125 °C Da, IP6X, -20 °C < Ta < +60 °C (zones dust 20/21/22)
115048	ATEX 2014/34/EU, IECEx: ex II 3 G, Ex nA IIC T6 Gc, -20 °C < Ta < +60 °C (zone gaz 2)
-	Marking FACTORY MUTUAL (FM): I.S., CL I, II, III / DIV 1 / GP ABCDEFG N.I., CL I, II, III / DIV 2 / GP ABCDEFG; NIFW

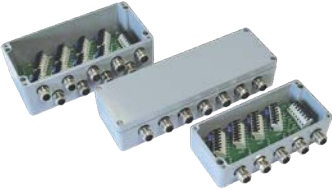
Accessories

Electrical Connection

Article-No.	Description
10323	Male cable connector KS6 (6-pin, Series 581) incl. mounting
10320	Male cable connector KSSH15 (15-pin) incl. mounting
43418	Input connector ZA9612FS (ALMEMO) incl. sensor mounting and connector calibration
49205	Input connector ZKD712FS (ALMEMO 202) incl. sensor mounting and connector calibration

Accessories (continued)

Weighing Electronics

ALCJB-A	CPJ/CPJ2S	IPE50 Panel
		

Further suitable accessories you can find on our homepage under:

https://www.lorenz-messtechnik.de/english/products/lc_weighing-electronics.php