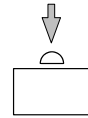


C2A...

Load cell



Max. capacities:
1t ... 10t

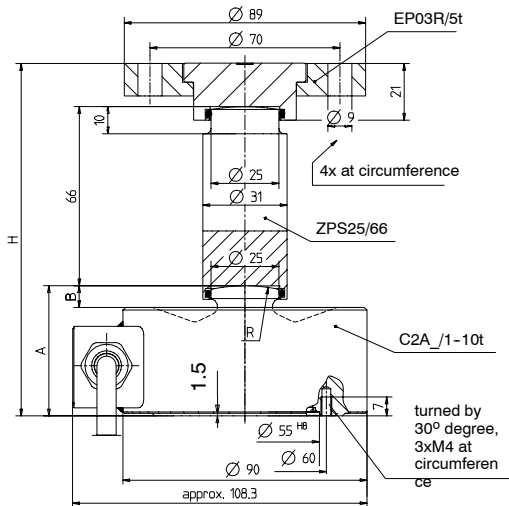


Special features

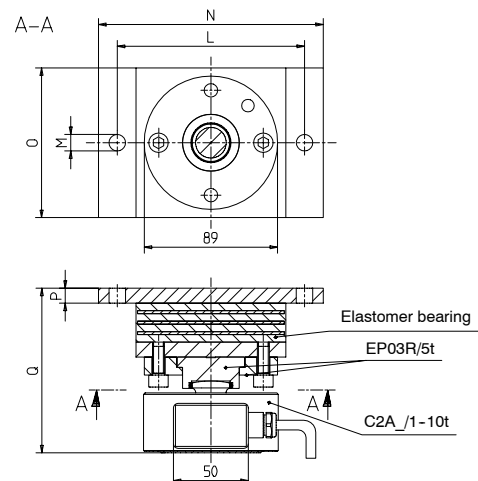
- Load cell and mounting aids made from stainless steel
- Low profile
- Complies with OIML R60 regulations for up to 4000 verification intervals
- Six-wire circuit
- Available Option:
 - Ex-schutz EEx ib IIC T4
 - Ex-schutz EEx d IIC T6

Dimensions (in mm; 1mm=0.03937 inches)

C2A /1..10t, pendle bearing ZPS and pendle support EPO3R



C2A /1..10t, elastomer bearing ZELB and pendle support EPO3R



Nominal load	A	B	R	Pendle bearing	H	S _{max} (mm)	F _R (%o.load)	Elastomer bearing	L	M	N	O	P	Q	S _{max} (mm)	F _R (N)
1t, 2t	48	10	30, 50	ZPS25/66	130	± 5	1; 1.5	ZELB/2t	100	9	120	60	10	103	± 4.5	400
5t	48	8	60	ZPS25/66	130	± 5	1.7	ZELB/5t	125	11	150	100	10	110	± 8	620
10t	53	8	80	ZPS25/66	135	± 5	2.2	ZELB/10t	175	13	200	100	12	124	± 9.5	810

F_R: Restoring force for 1mm sideways displacement

S_{max}: Max. sideways displacement at load nominal

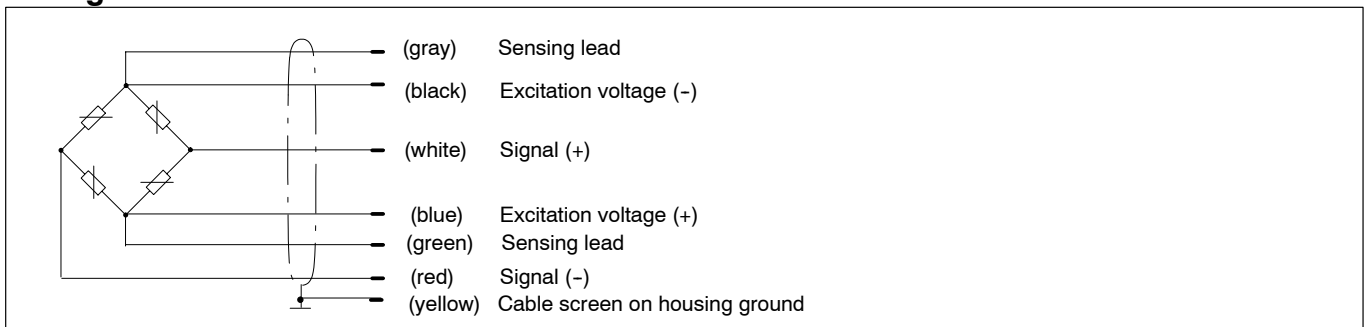
Technical Data

Type		C2AD1	C2AC3
Accuracy class to OIML R60		D1	C3
Max. number of load cell intervals (n_{LC})		1000	3000
Rated capacity (E_{max})	t	1, 2, 5, 10	
Min. load cell verification interval (v_{min})	% of C_n	0.0286	0.0100
Sensitivity (C_n)	mV/V	2	
Tolerance on sensitivity	%	<±0.1000	<±0.0500
Temperature effect on sensitivity (TK_C) ¹⁾	% of $C_n/10K$	<±0.0500	<±0.0080
Temperature effect on zero signal (TK_0)	% of $C_n/10K$	< ±0.0400	< ±0.0140
Hysteresis ¹⁾	%	< ±0.0500	< ±0.0180
Non-linearity (d_{lin}) ¹⁾	%	< ±0.0500	< ±0.0170
Creep (d_{DR}) in 30 min	%	< ±0.0500	< ±0.0167
Input resistance (R_{LC}) (black-blue)	Ω	350...450	
Output resistance (R_0) (red-white)	Ω	356±1.5	356±0.12
Reference excitation volt. (U_{ref})	V	5	
Nom. range of excitation volt. (B_U)	V	0.5...12	
Isolation Resistance (R_{is})	GΩ	>5	
Nominal temperature range (B_T)	°C [°F]	-10...+40 [+15...105]	
Service temperature range (B_{tu})	°C [°F]	-30...+70 [-20...+160]	
Storage temperature range (B_{tl})	°C [°F]	-50...+85 [-60...+185]	
Save load limit (E_L)	% of C_n	150	
Breaking load (E_d)	% of C_n	300	
Side load limit (E_{iq})	% of C_n	50	
Permissible dynamic load (F_{srel}) (Vibration amplitude to DIN 50100)	% of C_n	100 ²⁾	
Deflection at max. capacity, (s_{nom}) approx. (± 15%)	mm	0.15; 0.15; 0.17; 0.2	
Weight (G), approx.	kg	1.7; 1.8; 1.8; 1.8	
Protection class (IP) to EN 60529 (IEC529)		IP 67 (Test conditions:100h at 1m water column)	
Materials Measuring body Cable gland Cable sheath		Rust resistant Nickel plated brass Silicone	

1) The temperature coefficient of sensitivity, the hysteresis and the non-linearity are matched to comply with OIML R60 accuracy requirements for the respective scale deviation.

2) 70% at C2A../10t-type.

Wiring code



Accessories (not included in scope of supply): ZPS Pendle bearing EPO3R Pendle support - upper part and ZELB Elastomer bearing.



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