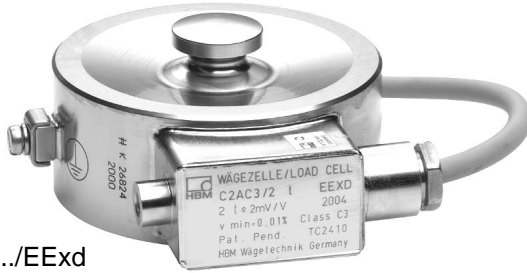


C2A/..., C2A.../EExd

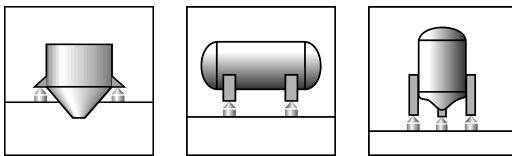
Load cells



C2A/...



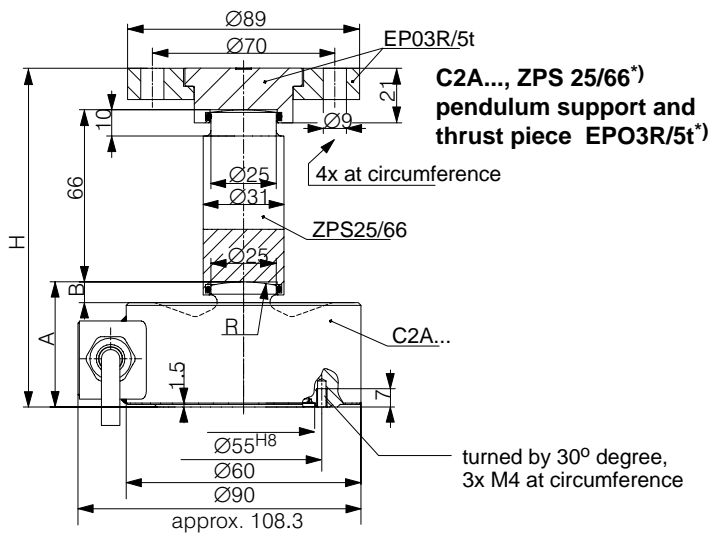
C2A.../EExd



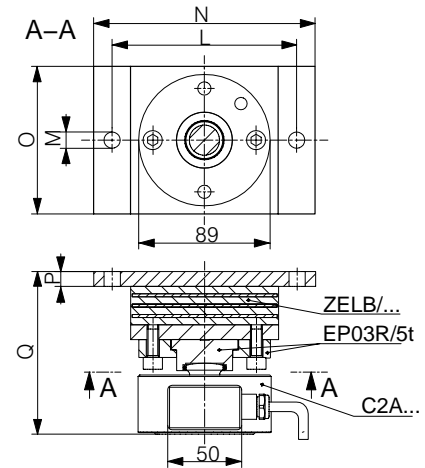
Special features

- Load cells and mounting aids made from stainless steel
- Max. capacities: 1 t ... 10 t
- Low profile
- Complies with OIML R60 regulations for up to 4000 verification intervals
- Meets EMC standards according to (EN 45 501)
- Explosion proof version acc. to ATEX 95 (optional)

Dimensions (in mm; 1 mm= 0.03937 inches)



C2A... with ZELB/...*) rubber-metal bearing and EPO3R/5t*) thrust piece

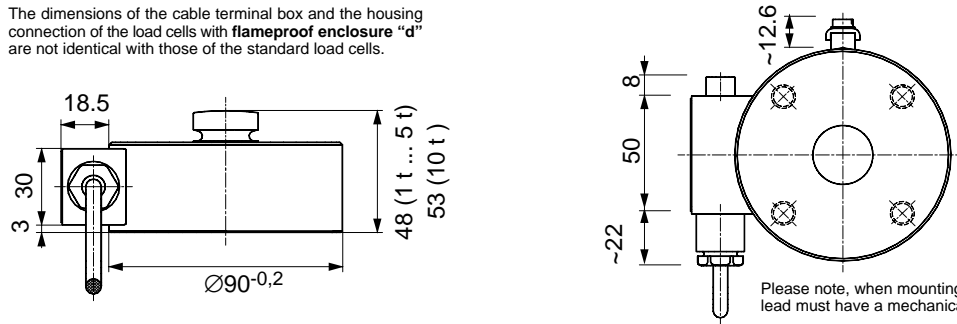


Max. cap.	A	B	R	H	S _{max} (mm)	F _R (% of load)	L	M	N	O	P	Q	S _{max} (mm)	F _R (N)
1t; 2t	48	10	30; 50	130	± 5	1; 1.5	100	9	120	60	10	103	± 4.5	400
5t	48	8	60	130	± 5	1.7	125	11	150	100	10	110	± 8	620
10t	53	8	80	135	± 5	2.2	175	13	200	100	12	124	± 9.5	810

S_{max}: Max. sideways displacement at max. capacity F_R: Restoring force for 1 mm sideways displacement

Dimensions C2A/.../EExd (Continuation)

The dimensions of the cable terminal box and the housing connection of the load cells with flameproof enclosure "d" are not identical with those of the standard load cells.



Please note, when mounting; the fixed connection lead must have a mechanical securing.

Specifications

Type		C2A/..., C2A/.../EExd	
Max. capacity (E_{max})		1t / 2t / 5t / 10t	
Accuracy class to OIML R60		D1	C3
Max. number of load cell intervalls (n_{LC})		1000	3000
Min. load cell verification interval (v_{min})	% of E_{max}	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 / 10 K	±0.0500	±0.0080
Temperature effect on zero signal (TK_0)		±0.0400	±0.0140
Hysteresis ¹⁾		±0.0500	±0.0180
Non-linearity (d_{lin}) ¹⁾	% of C_n	±0.0500	±0.0170
Creep (d_{DR}) in 30 min		±0.0500	±0.0167
Input resistance (R_{LC}) (black-blue)	Ω	400 ... 430	
Output resistance (R_0) (red-white)		356 ±1.5	356 ±0.12
Reference excitation volt. (U_{ref})	V	5	
Nominal range of excitation voltage (B_U)		0.5 ... 12	
Isolation Resistance (R_{is})	GΩ	>5	
Nominal temperature range (B_T) ²⁾	°C [°F]	-10 ... +40 [+14 ... +104]	
Service temperature range (B_{tu})		-30 ... +70 [-22 ... +158]	
Storage temperature range (B_{ti})		-50 ... +85 [-58 ... 185]	
Safe load limit (E_L)		150	
Breaking load (E_d)		300	
Side load limit (E_{lq})	% of E_{max}	50	
Permissible dynamic load (F_{srel}) ³⁾ (Vibration amplitude to DIN 50100)		100	
Deflection at max. capacity, (s_{nom}) (± 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 / IP68 (more rigorous test conditions: 1mWs, 100h)	
Material, Measuring body		stainless steel	
Cable gland		nickel plated brass ⁴⁾ , silicone	
Cable sheath		thermoplast. elastomer	

¹⁾ The data for Non-linearity (d_{lin}), Hysteresis error (d_{hy}) and Temperature effect on sensitivity (TK_C) are typical values.

The sum of these data meets the requirements according to OIML R60.

²⁾ For the destination in flameproof enclosure areas the ambient temperature range $-30^{\circ}\text{C} \leq T_a \leq +65^{\circ}\text{C}$ described on the load cell has to be ensured.

³⁾ 70% with C2A../10t

⁴⁾ With C2A../EExd: stainless steel

Optional

• Explosion proof version according to ATEX 95

- II 2 G EEx ia IIC T4 respect. T6 (Zone 1) ⁵⁾	- II 2 D IP67 T80 °C (Zone 21) ⁵⁾
- II 3 G EEx nA II T6 (Zone 2)	- II 3 D IP67 T80 °C (Zone 22 for non-conductive dust)
- II G EEx d IIC T6 (Version EExd) ⁵⁾	

• Accuracy class C4 (not possible in connection with EExd version) ⁵⁾

⁵⁾ With EC-Type Examination Certificate

Modifications reserved.

All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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