

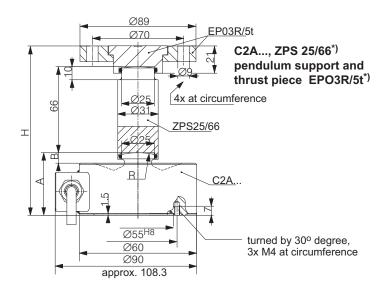




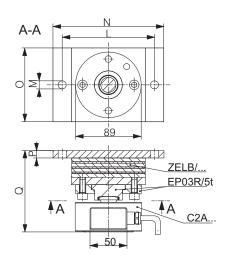
- Load cells and mounting aids made from stainless steel
- Max. capacities: 1 t ... 10 t
- Low profile
- Complies with OIML R60 regulations for up to 4000 verification intervals
- Meets EMC standards according to EN 45 501
- Explosion protection design as per ATEX, IECEx and FM

Dimensions (in mm; 1 mm= 0.03937 inches)

C2AC3 10t



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



Max. capacity	Α	В	R	Н	S _{max} (mm)	F _R (% of load)	L	M	N	0	Р	Q	S _{max} (mm)	F _R (N)
1 t; 2 t	48	10	30; 50	130	±5	1; 1.5	100	9	120	60	10	103	±4.5	400
5 t	48	8	60	130	±5	1.7	125	11	150	100	10	110	±8	620
10 t	53	8	80	135	±5	2.2	175	13	200	100	12	124	±9.5	810

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



Dimensions C2A/... (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.

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

Specifications

Туре		C2A/						
Max. capacity (E _{max})		1t / 2t / 5t / 10t						
Accuracy class to OIML R60		D1	C3	C4				
Max. number of load cell intervals (n _{LC})		1000	3000	4000				
Min. load cell verification interval (v _{min})	% of E _{max}	0.0286	0.0100 0.0100					
Sensitivity (C _n)	mV/V							
Tolerance on sensitivity	%	<±0.1000	<±0.0500	<±0.0500				
Temperature effect on sensitivity (TK _C) ¹⁾	% of C _n /10K	<±0.0420	<±0.0080	<±0.0070				
Temperature effect on zero signal (TK ₀)	% of C _n /10K	<±0.0400	<±0.0140	<±0.0140				
Hysteresis ¹⁾	%	<±0.0500	<±0.0180	<±0.0140				
Non-linearity (d _{lin})1)	%	<±0.0500	<±0.0170	<±0.0120				
Creep (d _{DR}) in 30 min	%	<±0.0500	<±0.0167	<±0.0125				
Input resistance (R _{LC})	Ω	340 550						
Output resistance (R ₀)	Ω	356 ±1.5 (for cable lengths less than 20 m) 359 ±1.5 (for cable length 20 m)	\	±0.12 (for cable lengths less than 20 m) 359 ±0.12 (for cable length 20 m)				
Reference excitation volt. (U _{ref})	V	5						
Nominal range of excitation voltage (B _U)	V	0.5 12						
Max. permissible excitation voltage	V	18						
Isolation Resistance (R _{is})	GΩ	>5						
Nominal temperature range (B _T) ²⁾	°C [°F]	-10 +40 [+14 +104]						
Service temperature range (B _{tu})	°C [°F]	-30 +70 [-22 +158]						
Storage temperature range (BtI)	°C [°F]	-50 +85 [-58 185 <u>]</u>						
Save load limit (E _L)	% of E _{max}	150						
Breaking load (E _d)	% of E _{max}	300						
Side load limit (E _{Iq})	% of E _{max}	50						
Permissible dynamic load (F _{srel}) ³⁾ (Vibration amplitude to DIN 50100)	% of E _{max}	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)			IP67					
Material Measuring body Cable gland Cable sheath		stainless steel nickel plated brass, silicone 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°C ≤ T_a ≤ +65°C described on the load cell has to be ensured.

^{3) 70 %} with C2A../10 t

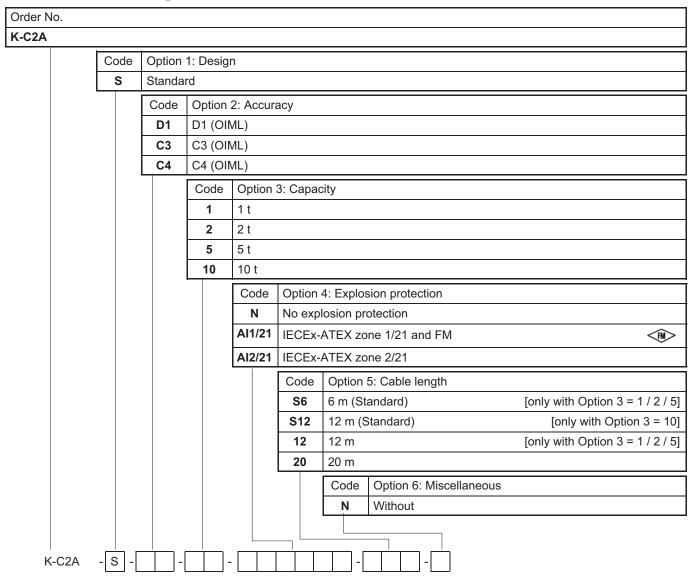
Optional

Explosion protection versions as per IECEx, ATEX and FM

AI1/21 IECEx+ATEX zone 1/21 + FM, intrinsically safe, II 2G Ex ia IIC T6/T4 Gb / II 2D Ex ia IIIC T125°C Db*
AI2/21 IECEx+ATEX zone 2/21, non-intrinsically safe, II 3G Ex ec IIC T6/T4 Gc / II 2D Ex tb IIIC T125°C Db*

* With EU type examination certificate (BVS13ATEX E 108 X) and IECEx Certificate of Conformity (IECEx BVS 13.0109 X)

C2A Load cells configuration



Not all codes can be combines with each other. Please take heed of the terms in the square brackets!

