

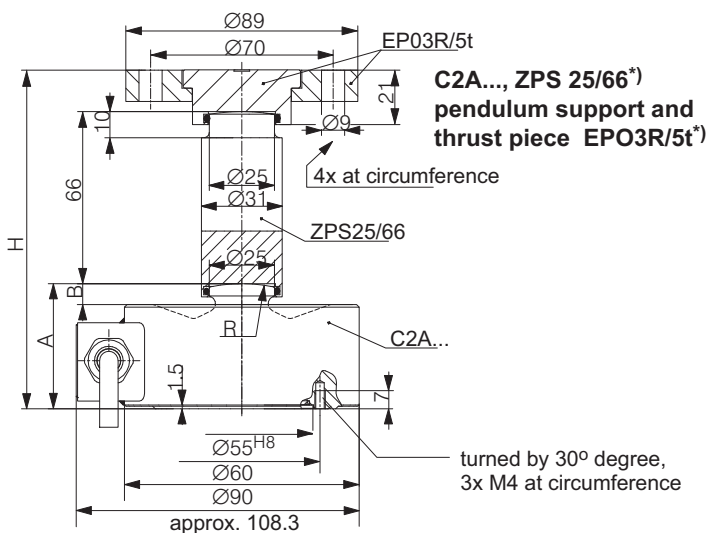
C2A/... Load cells

SPECIAL FEATURES

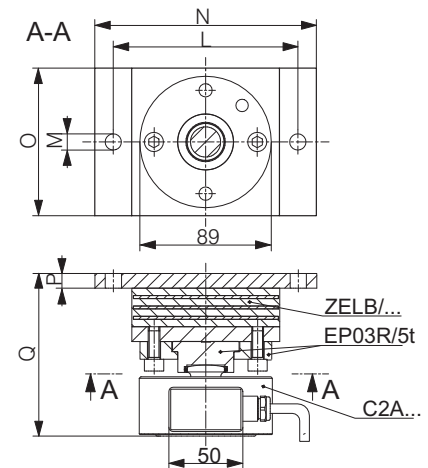
- Load cells and mounting aids made from stainless steel
- Max. capacities: 1 t ... 10 t
- Low profile
- Complies with OIML R60 regulations for up to 4000 verification intervals
- Meets EMC standards according to EN 45 501
- Explosion protection design as per ATEX, IECEx and FM



DIMENSIONS



C2A... with ZELB/...^{*)} rubber-metal bearing and EP03R/5t^{*)} thrust piece



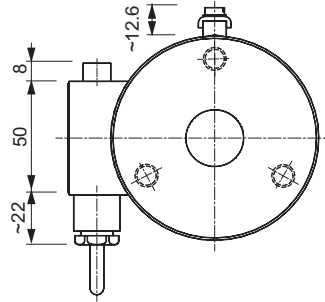
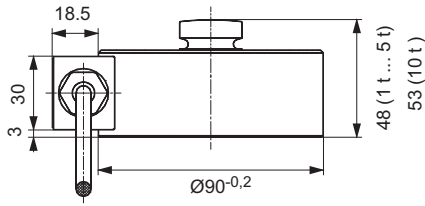
Dimensions (in mm; 1 mm= 0.03937 inches)

| Max. capacity | A | B | R | H | S _{max} (mm) | F _R (% of load) | L | M | N | O | P | 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. sideways displacement at max. capacity F_R: Restoring force for 1 mm sideways 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.



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

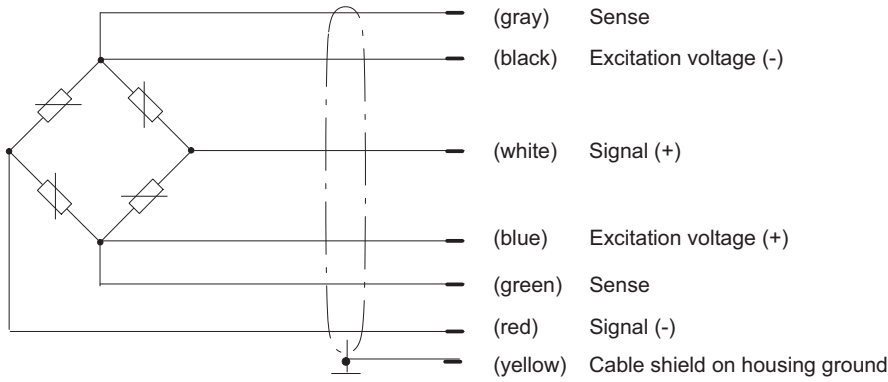
SPECIFICATIONS

| Type | | 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 | 2 | | |
| 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 <20 m) 359 ±1.5 (for cable length 20 m) | 356 ±0.12 (for cable lengths <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) | °C [°F] | -10 ... +40 [+14 ... +104] | | |
| Service temperature range (B_{tu}) | °C [°F] | -30 ... +70 [-22 ... +158] | | |
| Storage temperature range (B_{tl}) | °C [°F] | -50 ... +85 [-58 ... 185] | | |
| Save load limit (E_L) | % of E_{max} | 150 | | |
| Breaking load (E_d) | % of E_{max} | 300 | | |
| Side load limit (E_{lq}) | % of E_{max} | 50 | | |
| Permissible dynamic load (F_{srel}) ²⁾ (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.

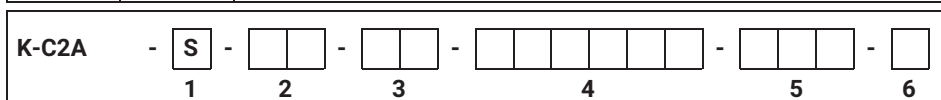
2) 70 % with C2A./10 t

WIRING CODE



C2A LOAD CELLS CONFIGURATION

| | | |
|-----------------|---------------|--|
| Ordering number | | |
| K-C2A | | |
| 1 | Code | Option 1: Design |
| | S | Standard |
| 2 | Code | Option 2: Accuracy class |
| | D1 | D1 (OIML) |
| | C3 | C3 (OIML) |
| 3 | Code | Option 3: Maximum capacity |
| | 1 | 1 t |
| | 2 | 2 t |
| | 5 | 5 t |
| 4 | Code | Option 4: Explosion protection |
| | N | No explosion protection |
| | A11/21 | ATEX+IECEX+FM Zone 1/21, intrinsically safe; ATEX/IECEX: II 2G Ex ia IIC T6/T4 Gb + II 2D Ex ia IIIC T125°C Db; FM(US/CA): Class I Zone 1 AEx/Ex ia IIC T4 Gb + Zone 21 AEx/Ex ia IIIC T125°C Db; FM(US): Class I, II, III Division 1, Groups A, B, C, D, E, F, G T4 [only with option 6 = N] |
| | A12/21 | ATEX+IECEX Zone 2/21, not intrinsically safe; ATEX/IECEX: II 3G Ex ec IIC T6/T4 Gc + II 2D Ex tb IIIC T125°C Db [only with option 6 = N] |
| 5 | Code | Option 5: Cable length |
| | S6 | 6 m (standard) [only with option 3 = 1 / 2 / 5] |
| | S12 | 12 m (standard) [only with option 3 = 10] |
| | 12 | 12 m [only with option 3 = / 1 / 2 / 5] |
| 6 | Code | Option 6: Other |
| | N | Without |



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

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