

## RCA

DINI ARCEO ANALOGUE COLUMN LOAD CELL, IN STAINLESS STEEL, "RCA" SERIES



Analogue version of compression load cells, ideal for CE-M approved weighbridges, tanks, silos, etc. Manufactured in STAINLESS STEEL, IP68 protection, 4000 divisions, fitted with "rodent proof" armoured cable.

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**CAPACITIES (kg):** 30000.

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**OIML R60. C4** precision class.

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**Load cells with stainless steel body. Degree of protection IP68.**

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**20m Armoured Rodent Resistant Cable, with standard Stainless Steel Armor.**

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**Integrated Surge Arresters as Standard**

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**Low Profile Height of only 130mm.**

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**Version available for ATEX environments.**

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## TECHNICAL FEATURES

- METROLOGICAL:
- Rated capacity (Cn): 30t
- Combined error:  $\pm 0,013 \%Cn$
- Temperature effect on zero:  $0,0014 \%Cn/^{\circ}C$
- Temperature effect on sensitivity:  $0,0011 \%Cn/^{\circ}C$
- Creep error (30 min.):  $0,018 \%Cn$

### LEGAL METROLOGY OIML R60

- Accuracy class: C4
- Max. number of intervals (nmax): 4000e OIML
- Minimum verification interval (vmin): 10000
- $Z = E_{max}/(2 \times DR)$ : 4000

### ELECTRICAL

- Nominal range of excitation voltage: 1 - 15Vdc
- Rated output at Cn: 2mV/V
- Zero balance:  $< \pm 2.50 \%Cn$
- Input resistance:  $815 \pm 20\Omega$
- Output resistance:  $700 \pm 0.35\Omega$
- Current Adjustment:  $0,1 \%Cn$
- Over voltage protection: 10kA/20kV (8/20 $\mu$ s) - IEC61000-4/5
- Insulation resistance: 5000M $\Omega$ /50V

### GENERAL

- Service temperature range:  $-20 \sim +60^{\circ}C$
- Compensated temperature range:  $-10 \sim +40^{\circ}C$
- Safe load limit: 150% Emax
- Ultimate overload: 300% Emax
- Protection degree IP68
- Load cells with stainless steel body
- 4-core armoured cable, PVC sheath, 20m length, 7mm diameter.
- Nickel plated steel cable gland.
- Armoured Anti Rodent Cable with Stainless Steel Armour.
- Self-centring spherical bases.
- Equipped with anti-rotation system, to be combined with KRCA cups for proper operation.

## ATEX VERSION RCA LOAD CELL

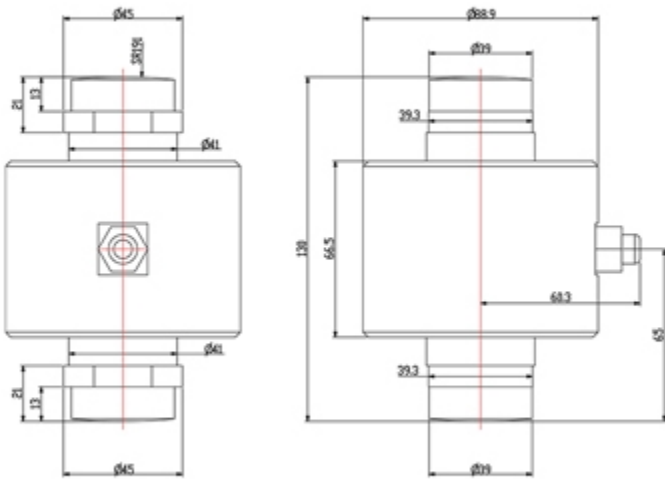
- An ATEX version of the RCA load cell is available for explosive atmospheres.
- The CCATEX certificate makes the load cell suitable for use in hazardous areas with protection methods according to:  
ATEX II 1G Ex ia IIC T6 (Ta  $-20 \div +40^{\circ}C$ ) TX (Ta  $-20 \div +65^{\circ}C$ ) Ga  
ATEX II 1D Ex ta IIIC TX $^{\circ}C$  (Ta  $-20 \div +40^{\circ}C$ ) TX $^{\circ}C$  (Ta  $-20 \div +65^{\circ}C$ ) Da IP65.  
The certificate includes the manual and the ATEX CE conformity declaration (available in EN, DE, FR, and IT).
- **IMPORTANT:** the certificate refers to the single load cell. For systems with more load cells, it is necessary to order one certificate for each load cell.

## RCA LOAD CELL: CONNECTION CABLE

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Wiring Code	
<i>Colour</i>	<i>Function</i>
WHITE	OUTPUT +
RED	INPUT +
YELLOW	OUTPUT -
BLUE	INPUT -

### DETAIL 1



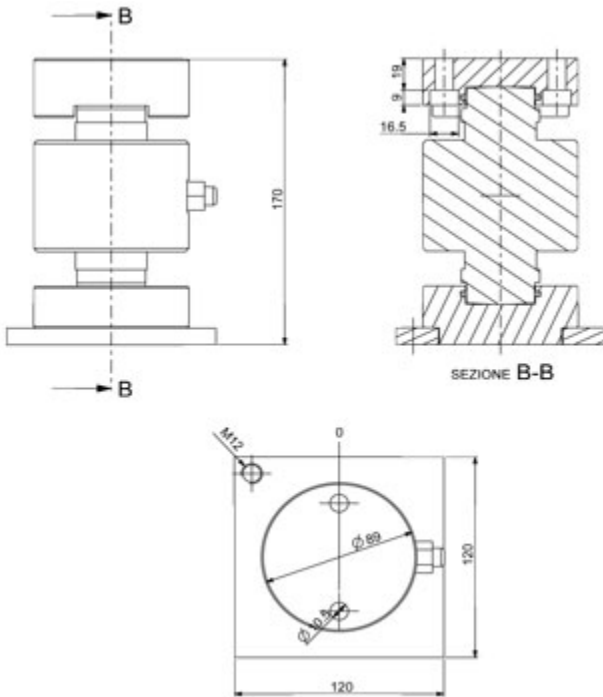
Technical drawing in mm.

### DETAIL 2



RCA load cell complete with optional KRCA kit.

## DETAIL 3



Technical drawing in mm with optional KRCA kit.

## VERSIONS

### Available versions

Codice	Max (kg)
RCA30C4 	30000



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**COMPANY HEADQUARTERS**

Via Della Fisica, 20  
41042 Spezzano di Fiorano Modena • Italy  
Tel. +39.0536 843418

**SERVICE ASSISTANCE**

Via Dell'Elettronica, 15  
41042 Spezzano di Fiorano Modena • Italy  
Tel. +39.0536 921784

SALES AND TECHNICAL ASSISTANCE SERVICE

All the specifications and images can be subject to variations and upgrades without prior notice.