

RCD Series, Dini Argeo Digital Column Load Cells, Stainless Steel



Standard Features

METROLOGICAL:

- Rated capacity (Cn): 30/40t
- Combined error: $\pm 0,014 \%Cn$
- Temperature effect on zero: $0,0016 \%Cn/^{\circ}C$
- Temperature effect on sensitivity: $0,0012 \%Cn/^{\circ}C$
- Creep error (30 min.): $0,021 \%Cn$

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: 10 - 16Vdc
- Rated output: 200000d
- Current consumption: 35mA
- Conversion type: Delta-sigma
- Internal resolution: 24 bit
- Converter rate: max. 100 conv./sec.
- RS485 interface communication rate: 4800/19200 bit/sec.
- Protection against electrostatic discharge according to IEC 61326-1

GENERAL

- Service temperature range: -20 ~ +60 °C
- Compensated temperature range: -10 ~ +40 °C
- Safe load limit: 150% E_{max}
- Ultimate overload: 300% E_{max}
- Protection degree IP68
- Load cells with stainless steel body
- 6-core armoured cable, PVC sheath, 18m length, 9mm 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.

Digital version of compression load cells, ideal for CE-M approved weighbridges, tanks, silos, etc. Manufactured in stainless steel, with IP68 protection, 4000 divisions, fitted with "rodent proof" armored cables.

Capacities (kg): 30000, 40000, 50000

OIML R60, C4 precision class

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

18 m armored Rodent Resistant Cable, with standard stainless steel armor

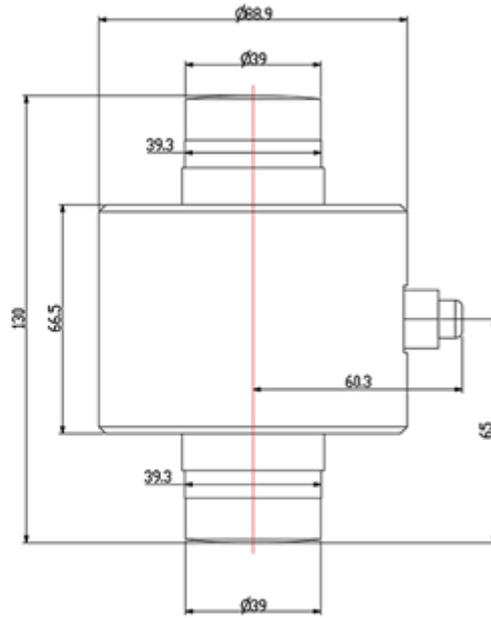
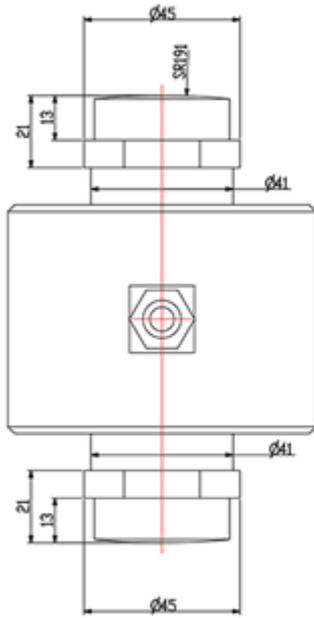
Low profile height of only **130 mm**

Main certifications: OIML R60, Australian legal for trade certificate of approval (NMI S842)

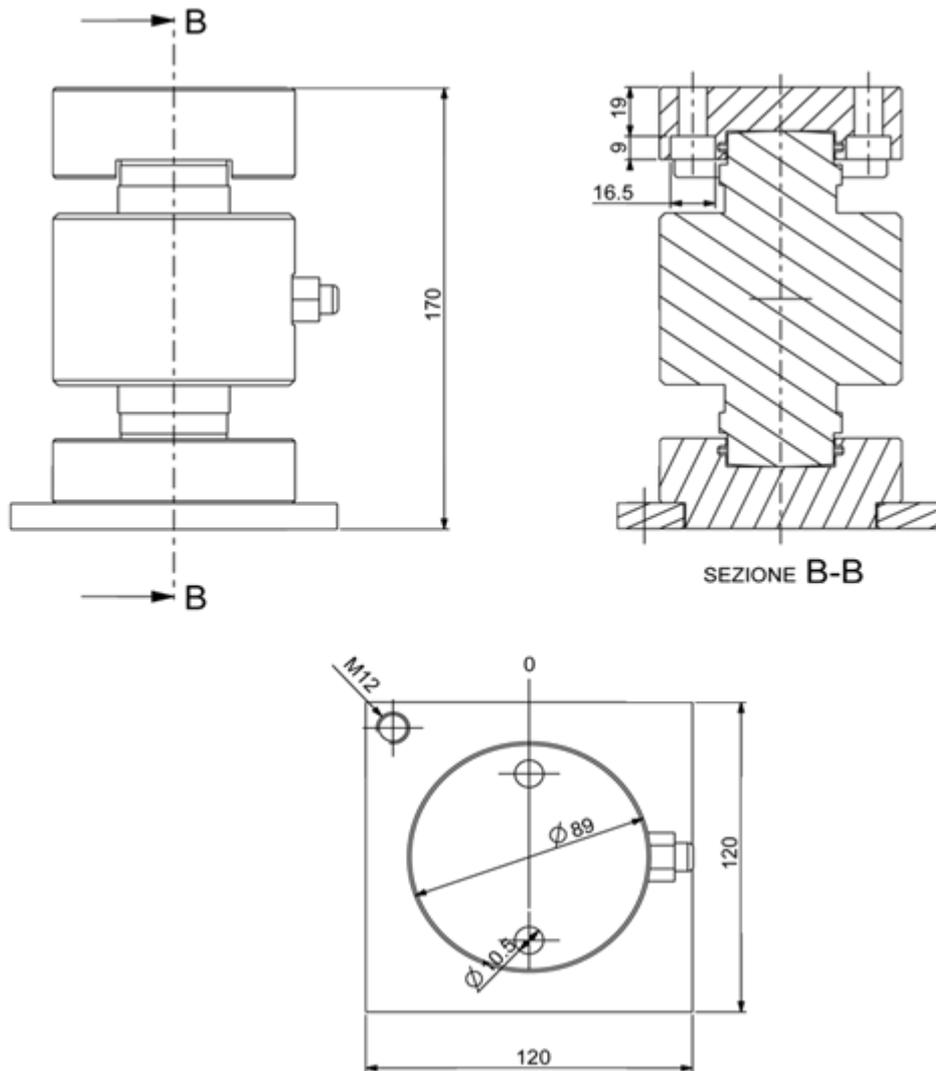
Wiring Code

| RCD cell connections | |
|----------------------|-----------------|
| <u>Colour</u> | <u>Function</u> |
| Input | |
| WHITE | INPUT + |
| BROWN | INPUT - |
| Input signal | |
| GREY | A+ |
| PINK | B- |
| Output signal | |
| GREEN | A+ |
| YELLOW | B- |

Dimensions (mm)



RCD with Optional KRCA Kit Dimensions



Installation Kit

- The KRCA kit allows a correct installation of the RCD load cells below the weighbridge plate.
- The kit consists of an upper cup with **anti-rotation system**, a lower cup and a two-hole plate for easier and faster fixing. All components are made from nickel-plated steel.
- Both cups are designed for **optimal operation** in conjunction with the cell's self-centring spherical bases, allowing their **proper oscillation** and return to position.
- The cups are also fitted with triple function **integrated washers**:
 - they keep lubricating grease in its place.
 - they simplify the proper positioning and **levelling** of the cell and support it during installation/maintenance.
 - they protect the system by preventing dirt and water from accumulating on the bottom of the cup, thus maintaining the correct oscillation and mechanical compensation of the load cells over time.

Available versions

| Code | Max (kg) |
|----------------|----------|
| <u>RCD30C4</u> | 30000 |
| <u>RCD40C4</u> | 40000 |
| <u>RCD50C4</u> | 50000 |

Parts

Part # **Description**

Available Versions

RCD30C4 Column digital approved load cell, C4, Max=30000kg. Stainless steel, IP68 protection degree.

RCD40C4 Column digital approved load cell, C4, Max=40000kg. Stainless steel, IP68 protection degree.

RCD50C4 Column digital approved load cell, C4, Max=50000kg. Stainless steel, IP68 protection degree.

Options

Part # Description

Mounting kits

KRCA Kit of 2 jointed cups for self-alignment and fixing plate. In zinc-plated steel.

Junction Box / Boards - Load Cell Cables

JB10QD-1 RS485 equalisation box for connection with up to 10 digital load cells. Reinforced polyester box, with 10 + 1 cable glands and surge arresters.

Digital Kit for Weighbridges

WK630D-1 Kit for DIGITAL weightbridges with 6 load cells. Composed of 3590ETD indicator fitted with AF03 software, 2 inputs, 4 outputs and RS485 port, 6 RCD30C4 digital load cells with KRCA mounting kit, and JB10QD digital equalisation box with 10 inputs.

WK830D-1 Kit for DIGITAL weightbridges with 8 load cells. Composed of 3590ETD indicator fitted with AF03 software, 2 inputs, 4 outputs and RS485 port, 8 RCD30C4 digital load cells with KRCA mounting kit, and JB10QD digital equalisation box with 10 inputs.

Protection for Junction Box / Electronic Circuits

GELBOX Anti condensation, insulating, and sealing gel. Useful to protect the electronic circuits of the weighing system, even under prolonged immersions conditions. Pack of 300ml.

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