

RL5416 Series, Rice Lake Canister Load Cell, Stainless Steel



Standard Features

Canister load cells for CE-M approved weighbridges, tanks, silos, etc.
Manufactured in STAINLESS STEEL, IP69K protection degree, 4000 divisions.

CAPACITIES: 20t, 30t, 40t, 50t.

OIML R60. **C4** precision class.

Stainless steel body. **IP69K** Protection Degree.

20 m armoured rat-proof cable with stainless steel armouring as standard

h= 150mm.

RL5416 Series Specifications

Rated capacity:
(F.S.): 20 t, 30 t, 50 t

Combined error:
0,022 %F.S.

Creep error (after 30 min.):
0,014 %F.S.

Temperature effect on zero:
0,01 %F.S./5°C

Temperature effect on sensitivity:
0,01 %F.S./10°C

Non-linearity error:
0.015%F.S.

Non-repeatability error:
0.006%F.S.

OIML R60:
Vmin= Emax/14000
Accuracy class: C4
Max. number of intervals: 4000e
OIML

Gas dischargers to protect against atmospheric discharges

Power supply:
5÷15 Vdc

Rated output at F.S.:
 $2 \pm 0.1\%$ mV/V

Input resistance:
 $800 \pm 3\Omega$

Output resistance:
 $700 \pm 3\Omega$

Insulation resistance:
5000MΩ

Operating temperature:
-35 ~ +70 °C

Compensated temperature for homologation:
-10 ~ +40 °C

Storage temperature limits:
-40° ~ +80°

Normal service:
120% F.S.

Maximum load / Safe load:
150% F.S.

Ultimate overload:
300% F.S.

IP69K protection degree

Stainless steel body

6-core cable with stainless steel shield, length 20 m, diameter 6mm

Nickel plated steel cable gland with protective spring

Self-centering spherical bases

Equipped with anti-rotation system, to be combined with 173793 cups for proper operation

WARNING:

For JB10Q/JB10QD: 1200ml of gel required

Wiring Code

Wiring Code	
RED	INPUT +
BLACK	INPUT -
GREEN	OUTPUT +
WHITE	OUTPUT -
YELLOW	SENSE +
BLUE	SENSE -
METAL	Shield

Installation Kit

- The 173793 kit allows a correct installation of the RL5416 load cells below the weighbridge plate.
- The kit consists of an upper cup and a lower cup with **anti-rotation system**. All components are made from stainless 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.

Parts

Part #	Description
{#Available versions}	
RL5416-20T	RL5416 Canister load cell, C4 approved, Max= 20t.
RL5416-30T	RL5416 Canister load cell, C4 approved, Max= 30t.
RL5416-40T	RL5416 Canister load cell, C4 approved, Max= 40t.
RL5416-50T	RL5416 Canister load cell, C4 approved, Max= 50t.
{#Mounting kits}	
173793	Cup Set RL5416-01 Stainless Steel Cup Set for RL5416 Load Cells

Options

Part #	Description
--------	-------------

{#Junction Box / Boards - Load Cell Cables}

JB10Q	Equalisation box for connection with up to 10 analogue load cells. Reinforced polyester box, with 10 + 1 cable glands. With surge arresters, PCB, Terminal block, plastic box and UL marked labels (if applicable).
LCCB	Shielded cable 6x0.25 mm ² (suitable for Ex zones). PVC inner sheath. Tinned copper braid shielding. PVC outer sheath, diameter 5.8 mm. Temperature range: -40 / +80 °C. Minimum bending radius $\geq 6 \times \text{O.D.}$. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).
LCCBA	Armoured cable 6x0.25 mm ² (suitable for Ex zones). PVC inner sheath, diameter 5mm. Iron-zinc alloy armour. Transparent PVC outer sheath, 8 mm diameter. Temperature range: -15 / +70 °C. Minimum bending radius $\geq 5 \times \text{O.D.}$. €/m. Maximum orderable length: 100 m (longer lengths available only upon request).

{#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.
---------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**Dini Argeo S.r.l. | Via della Fisica, 20 - 41042, Spezzano di Fiorano, Modena (MO), Italy | Tel.:
+39 0536 843418**

www.diniargeo.com
