

## RL5416DC LOADCELL

Canister Digital Loadcell



**RICE LAKE**  
WEIGHING SYSTEMS

### Installation Kit

- The 173793 kit allows a correct installation of the RL5416DC 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.

### Connection

Cable Color Code	
RED	EXC +
BLACK	EXC -
GREEN	A +
WHITE	B -
METAL	SHIELD

### Available Versions

Code	Max (kg)
RL5416DC-30T	30,000
RL5416DC-40T	40,000

Digital canister load cells for CE-M approved weighbridges, tanks, silos, etc. Manufactured in stainless steel, IP68 protection degree, 4000 divisions.

### Technical Features

#### METROLOGICAL FEATURES

- Rated Capacity: (FS): 30t, 40t.
- Combined Error: 0.022 %F.S.
- Creep Error (after 30 min.): 0.14 %F.S.
- Temperature effect on zero: 0.02 %F.S./10°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

- $V_{min} = E_{max}/18000$ .
- Accuracy Class: C4.
- Max. number of intervals: 4000e (EC Test Certificate, according to OIML R60 (2000)).

#### ELECTRONIC\MECHANICAL FEATURES

- Gas dischargers to protect against atmospheric discharges.
- Double connector for load cells interconnection and weight indicator connection, without junction box.
- Halfduplex RS485 communication technology.
- Rice Lake communication protocol.
- Power Supply: 8...15 V (AC or DC).
- Rated Digital Output: 40000 d.
- Current Consumption: 35 mA.
- Internal Resolution: 24 bit.
- Converter Rate: max. 40 conv./sec.
- RS485 Communication Speed: Max 100kHz.
- Operating Temperature: -35 ~ +70 °C.
- Compensated Temperature: -10 ~ +40 °C.
- Storage Temperature Limits: -40 ~ 80 °C.
- Safe Load Limit: 150% F.S.
- Ultimate Overload: 300% F.S.
- IP68 protection degree.
- Stainless steel body.
- 4-core RS485 cable as optional with stainless steel shield, diameter 7mm.
- Self-centring spherical bases.
- Equipped with anti-rotation system, to be combined with 173793 cups for proper operation.

