

RL5416DC Series, Rice Lake Digital Canister Load Cells, in Stainless Steel with Connectors



Standard Features

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

Specifically developed for working without junction box

CAPACITIES: 30 t, 40 t

OIML R60. C4 precision class

Stainless steel body. **IP68** Protection Degree.

h= 150 mm

RL5416DC Series Specifications

Rated capacity (FS):

30 t, 40 t

Combined error:

0,022 %F.S

Creep error (after 30 min.):

0,14 %FS

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:

Vmin= Emax/18000

Accuracy class: C4

Max. number of intervals: 4000e
(EC Test Certificate, according to
OIML R60 (2000))

**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

Wiring Code

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

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.

Parts

Part #	Description
{#Available versions}	
RL5416DC-30T	RL5416DC Digital canister load cell, C4 approved, Max=30t.
RL5416DC-40T	Digital canister load cell RL5416DC, C4 approved, Max=40t.
{#Mounting kits}	
173793	Cup Set RL5416-01 Stainless Steel Cup Set for RL5416 Load Cells

Options

Part #	Description
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{#Connection cables}

195851	Cable, RL5416/RL5426DC-IS 1 metal connector 50m Loadcell to Indicator Connection
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195852	Cable, RL5416DC/RL5426DC 2 metal connectors 4.5m Load Cell Interconnection
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195854	Cable, RL5416DC/RL5426DC 2 metal connectors 9.5m Load Cell Interconnection
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{#Accessories}

196555	Cap,Connector Protector RL54xxDC Series Load Cells
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{#Options: digital indicators}

3590ETD	Touch Screen indicator with AF03 firmware , suitable for the connection of digital load cells. ABS case. 5.7" colour display. Internal power supply for digital load cells. RS485 serial port, with lightning and surge protection circuit.
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3590ET8D-1	Touch Screen indicator with AF03 firmware , suitable for the connection of digital load cells connection. ABS case. 8" colour display. Internal power supply for digital load cells. RS485 serial port with lightning and surge protection circuit.
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