

# RL5416 LOADCELL

Canister Loadcell



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

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

h= 150mm.

## Technical Features

### METROLOGICAL FEATURES

- Rated Capacity: (F.S.): 20 t, 30 t, 40 t, 50 t.
- Combined Error: 0.022 %F.S.
- Creep Error (after 30 min.): 0.014 %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

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

### ELECTRONIC\MECHANICAL FEATURES

- Gas dischargers to protect against atmospheric discharges.
- Power Supply: 5÷15 V (AC or DC).
- Rated Output at F.S.: 2 ± 0.05% mV/V.
- Input Resistance: 800 ± 3Ω.
- Output Resistance: 700 ± 3Ω.
- 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 20m, diameter 6mm.
- Nickel plated steel cable gland with protective spring.
- Self-centring spherical bases.
- Equipped with anti-rotation system, to be combined with 173793 cups for proper operation.



## 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.

| Cable Color Code |          |
|------------------|----------|
| RED              | INOUT +  |
| BLACK            | INPUT -  |
| GREEN            | OUTPUT + |
| WHITE            | OUTPUT - |
| YELLOW           | SENSE +  |
| BLUE             | SENSE -  |
| METAL            | Shield   |

## Weighing Modes

| Code       | Max (kg) |
|------------|----------|
| RL5416-20T | 20,000   |
| RL5416-30T | 30,000   |
| RL5416-40T | 40,000   |
| RL5416-50T | 50,000   |

