

## FEATURES

- Tight construction
- High dynamic response frequency
- Made of stainless steel

# RS PRO Compression & Tension Load Cell

RS Stock No.: 204-2773



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

Compression & Tension Load Cell 31 low range precision miniature load cells measures both tension and compression load forces of 50kg. These models are our highest accuracy, rugged miniature load cells. Model 31's welded, stainless steel construction is designed to eliminate or reduce to a minimum, the effects of off-axis loads. High accuracies of 0.15%  $\pm$  0.25% full scale is achieved. Each bonded strain gage unit is built of welded 17-4 PH stainless steel for additional ruggedness.

A modification permit allows this model to be completely welded for underwater applications. Model 31's tension / compression load cells has male thread attachments.

Stainless steel

Miniature design

Double diaphragm construction

Capacities: 50kg

Material: Stainless steel

Dimension: Dia25.4\*37mm

Rated Output: 1.0-1.5 $\pm$ 10% $mV/V$

## Applications

Suitable for automotive press fit, automated assembly, 3C products testing, new energy product assembly, medical testing, robotics, mold assembly and other industrial testing and insertion force test instruments etc.

## Electrical Specifications

Rated Capacities	50kg
Rated Output	1.0-1.5 $\pm$ 10% $mV/V$
Zero Balance	$\pm$ 0.0200 $mV/V$
Non-linearity	0.3 % F.S
Hysteresis	0.03 % F.S
Repeatability	0.03 % F.S
30mins Creep	0.2 % F.S
30mins Return	0.2 % F.S
Safe Overload	150 %
Ultimate Overload	200 %
Temperature Effect on Output	0.1 %F.S.10°C
Temperature Effect on Zero	0.1 %F.S.10°C
Input Impedance	350 $\Omega$

## Load Cells

Output Impedance	350±5 Ω
Insulation Impedance	≥5000 MΩ/(100VDC)
Recommended Excitation	0-10V
Maximum Excitation	10VDC
Operating Temperature Range	-20~80 °C
Construction	Stainless Steel
Cable	Φ3×2m
Mode of Connection	Red (EXC+) , Black (EXC-) , Green (SIG+) , White (SIG-)

### Protection Category

Waterproof class	IP66
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### Classification

eCl@ss (Version)	C3
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### Approvals

Declarations	ROHS, OIML
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