



# RING TYPE COMPRESSION LOAD CELL

## LC-RTC

IEICOS Ring Type Compression Load Cell for measurement of compression loads. It is manufactured from high grade stainless steel and is available from 100 Kgf to 100T capacity. Loads have to applied symmetrically at the top and a hardened steel load button with round top is provided to ensure minimal error due to eccentric load effects. The load cell is also supplied with a bottom plate with mounting holes. The ring type load cell also has a high frequency response for use in impact load measurements.



### Wiring Scheme

Red + (Input +) Yellow - (Output -) Black - (Input -) Green + (Output +)

### Performance Specification

Standard Capacities	100 Kg, 200 Kg, 500 Kg, 1T, 2T, 5T, 10T, 20T, 50T, 100T
Excitation Voltage	10 VDC - Maximum 15 VDC
Nominal Output	0.25 - 1 mV/ V
Non - Linearity	< $\pm 0.5\%$ FSO
Hysteresis	< $\pm 0.5\%$ FSO
Non-Repeatability	< $\pm 0.5\%$ FSO
Creep (30 minutes)	< $\pm 0.5\%$ FSO
Zero Balance	$\pm 1.0\%$ FSO
Input Resistance	$350 \pm 5$ Ohms
Output Resistance	$350 \pm 5$ Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	500 mm. Minimum
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	200%
Temp. Compensated Range	0-60 $^{\circ}\text{C}$
Temperature Effect on Output	< 0.0015% FSO/ $^{\circ}\text{C}$
Temperature Effect on Zero	< 0.0020% FSO/ $^{\circ}\text{C}$
Frequency Response	3 KHz (nominal)

## INDUSTRIAL ENGINEERING INSTRUMENTS

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Due to continuous improvement, specifications, dimensions, look, color, feel and features subject to change without notice.