

RTN-C-500/1000t

High Capacity Compression Load Cell

RUDRRA SENSOR

The load cell Technology



Product Description

The specific load cell is designed with the major objective to ensure the vital measurement of system parameter in numerous industrial applications. The body of this appliance is made of alloy steel which has the resistivity to fight with corrosion. In order to ensure the quality of the product, the Rudrra Sensor's engineers check the accuracy and efficiency of the load cell twice before the final dispatch of the low profile compression load cell to the customers directly. The load cell is available in various sizes and in different capacities. It is known for the accurate measurement in industrial requirements. It is designed with different specifications with different values. This load cell is made with high precision strain gage. The Load cell is extensively used for compressive load measurement during testing of piles. For testing of piles at loads greater than 10000 kN, more than one load cell can be used. It is specially designed for civil engineering applications. It is available in capacities ranging from 1000kN to 10000kN.

Application :

- * High Capacity testing machine
- * Concrete testing machine
- * Rolling Mill machine & compressive load measurement between structural members.
- * Pile Testing and measurement of thrust of rocks.

Key Feature :

- * Alloy Steel Material & Rugged & robust construction
- * High capacity & suit harsh and severe industrial environment.
- * Simple installation



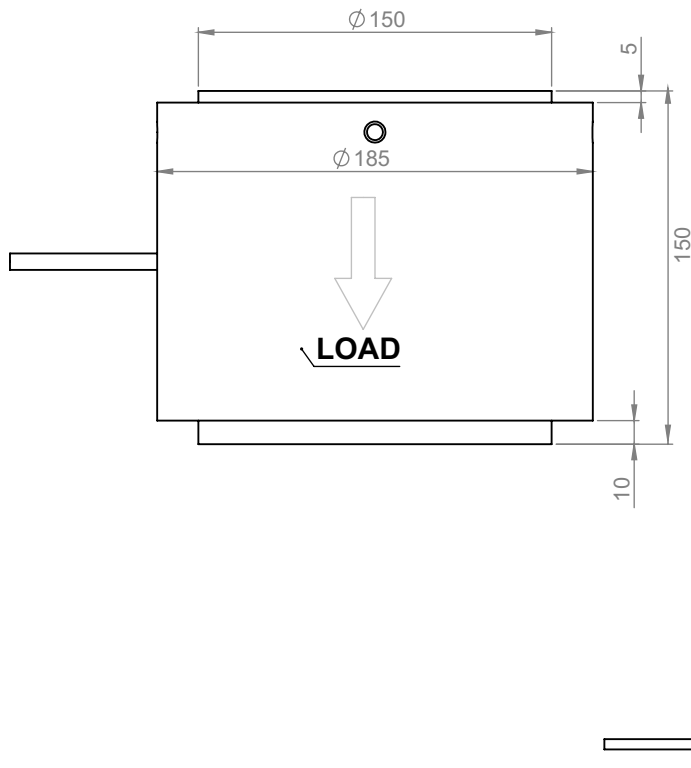
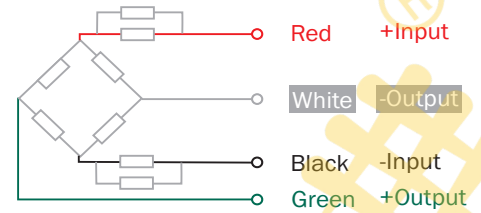
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Cable Connection Details :



*3000kN/10000kN Dimension Available on Request

Parameter	C2	Unit
Rated load (E _{max}):	1000, 2000, 3000, 5000, 10000	kN
Maximal numbers of load cell verification Intervals (N _{lc}):	3000	d
Minimum load cell Verification intervals Intervals (V _{min}):	0.01	% of rated load
Rated output (C _n):	1.5 ± 10%	mV/V
*Combined error:	0.015	± % of rated output
Temperature effect on sensitivity (T _{kc}):	0.012	± % of rated output °C
Temperature effect on Zero balance (T _{k0}):	0.008	± % of rated output °C
Zero balance:	1.0	± % of rated output
Input balance (R _{lc}):	775 ± 10	Ω (Ohms)
Output resistance (R _o):	700 ± 5	Ω (Ohms)
Insulation resistance:	> 5000	M Ω (Mega-Ohms)
Safe overload:	120	± % of rated capacity
Ultimate overload:	300	± % of rated capacity
Operating temperature range:	-20 + 70 / -20 + 160	°C / °F
Recommend excitation:	5-12	V(DC or AC)
Maximum excitation:	15	V(DC or AC)
Material of elastomer:	Alloy steel	
Protection class:	IP67	

