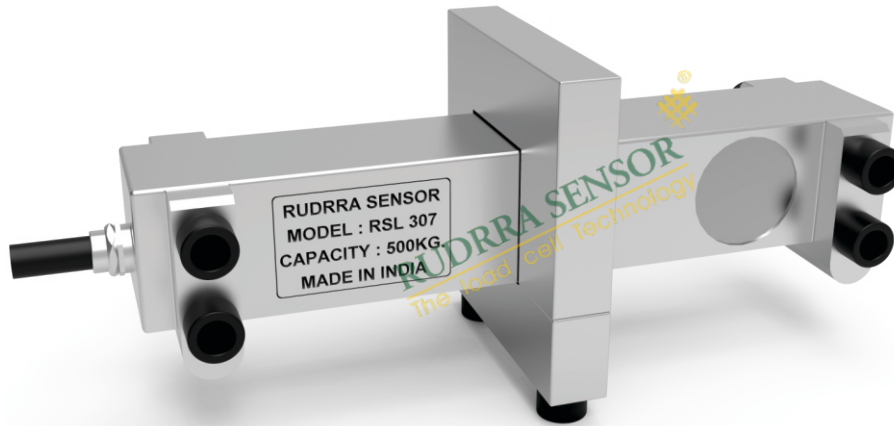


RSL 307

Rope Tension Load Cell

RUDRRA SENSOR
The load cell Technology



Product Description

Rudrra Sensor is perceived as the production leader for manufacturing, supplying particularity in Rope Tension load cell. We have helped our customers to achieve consistent quantifiable quality control by providing accurate, reliable and durable instruments since 2002 for assistance in selecting the best tension measurement device for your company's application. We offer the best price ratio designed to comply with the most relevant industry standard and certified by national and international bodies for greater recognition.

This Rope Tension load cell is good enough for tension applications such as winching, hanging crane scale, and lifting systems. Openings at either end of the crane load cell allow for easy connection to shackles, wire rope, or other rigging. These hanging scales are available in capacities ranging from 0.5Tf to over 0.7Tf. The characteristics of dynamometer capacity, size and safety constituent is also feasible upon request. Each tension load cell is temperature remunrate and environmentally sealed.

Rudrra Sensor is the premier in the field to supply this characteristic electronic device. If you have any querirs regarding you can call us.

Applications

- * Elevator load monitor.
- * Specially designed for protecting cranes and hoists from overload.
- * Tension measurement in stay ropes, suspension ropes and railway catenary ropes.
- * Vehicle pull test.
- * Ship Bollard pull test.

Key Features

- * Rope tension ranging from 0.5 Tf to 7.5
- * Complete environmental protection IP-65 class
- * Standard output 1.0 mV/V available
- * Can be provided to accomodate multirope applications - up to 4 ropes

Optional :

- * Digital Load cell
- * Stainless steel structure



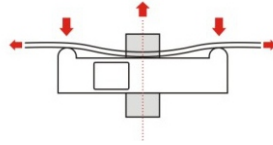
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Rope Tension Load Cell

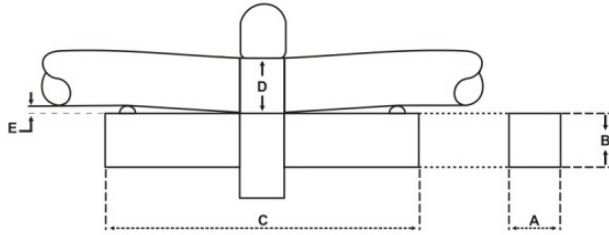
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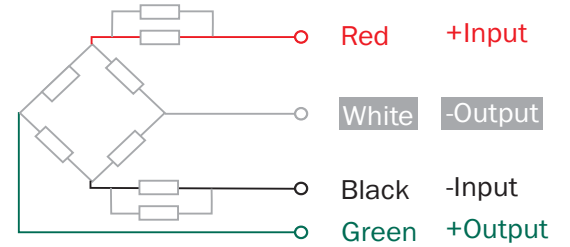
Load Application Layout :



Dimensions :



Cable Connection Details :



ROPE Tension	Capacity	d	A	B	C	E
1,2,5	0.5t	8-16	32	32	172	7.5
5,10	1t	24-36	32	32	172	7.5
15	2t	upto 40	32	32	172	7.5
25	3t	upto 60	38	38	228	7.5
40	5t	upto 72	38	38	228	7.5
50	7.5t	upto 80	50	50	300	7.5

* All dimension are in mm

Parameters : (Analog Load Cell)

Standard Capacities (Tf.)	0.5,1,2,3,4,5,7.5	Insulation Resistance (50 VDC)	>1000 Mega Ohms
Excitation Voltage	5 VDC - Maximum 15VDC	Cable Length (4 Core)	Upto 21-5 M, Above 2t-10M
Nominal Output	1 mV/V	Safe Overload	150% of Rated Capacity
Non-Linearity	<±5.0% FSO for range upto 20%	Ultimate Overload	300% of Rated Capacity
Hysteresis	<±0.1% FSO (Full Scale Output)	Temp. Compensated Range	0.60 °C
Non-Repeatability	<±0.1% FSO	Temp. Effect on Output	<0.005 % FSO/C
Creep (30 minutes)	<±0.03 % FSO	Temp. Effect on Zero	<A,0.005 % FSO/C
Input Resistance	390 Ohms	Deflection	<0.5mm at FSO
Output Resistance	350 Ohms	Environmental Protection Class	IP67

