MODEL

30510 ROPE TENSION LOAD CELL

Description:

CE Certified 30510 load cell is strain gage based and is fully temperature compensated over 0 to 50 °C. It used in industrial applications where the tension in wire rope needs to be carefully and continuously monitored to prevent overload into the equipment.

The load cell is conveniently clamped-on to the rope in existing condition. It is designed to handle rope diameter from 8mm to 80mm. Higher capacity can be

Features

- ❖ CE Rated ❖ 0.1 Tf to 3.0 Tf capacities of load cells are offered for rope tension ranging from 1Tf to 30 Tf
- Complete environmental protection IP-65 class provided
- Standard output 1.0mV/V available
- Can be provided to accommodate multi rope applications up to 4 ropes

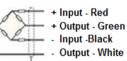
Applications

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

Performance Specification

Standard Capacities	1.0 to 30.0 Tf. of Rope Tension			
Excitation Voltage	10 VDC- Maximum 15 VDC			
Nominal Output	1.0 m V/ V +/- 0.5			
Non - Linearity	$<$ \pm 5.0 % FSO for range up to 20% $<$ \pm 2.0 % FSO for range above 20%			
Hysteresis	< ±0.1% FSO			
Non-Repeatability	< ±0.1% FSO			
Creep (30 minutes)	< ±0.05% FSO			
Input Resistance	390 ± 20 Ohms			
Output Resistance	350 ± 10 Ohms			
Insulation Resistance (50 VDC)	> 1000 Mega Ohms			
Cable Length (4 Core Screened)	5Mtrs.			
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Safe Overload of Rated Capacity	150%			
Safe Overload of Rated Capacity Ultimate Overload of Rated Capacity	150% 300%			
Ultimate Overload of Rated				
Ultimate Overload of Rated Capacity	300%			
Ultimate Overload of Rated Capacity Temp. Compensated Range	300% 0-50 °C			
Ultimate Overload of Rated Capacity Temp. Compensated Range Temperature Effect on Output	300% 0-50 °C < 0.025% FSO/ °C			
Ultimate Overload of Rated Capacity Temp. Compensated Range Temperature Effect on Output Temperature Effect on Zero	300% 0-50 °C < 0.025% FSO/ °C < 0.030% FSO/ °C			
Ultimate Overload of Rated Capacity Temp. Compensated Range Temperature Effect on Output Temperature Effect on Zero Deflection	300% 0-50 °C < 0.025% FSO/ °C < 0.030% FSO/ °C < 0.4 mm at FSO			

Electrical Termination Options



- * Compatible Instruments with Relay output, 4-20 mA

- Input -Black - Output - White Shield - Floated		* Digital Version with RS-485 interface / USB output / Blue Tooth Telemetry / Wireless Telemetry * Software for Graphic, Tabulation and Reporting * Customization with customers dimensions			В		
	Rope Tension(Tf.)	Recommended Load Cell Capacity (Tf.)	Rope diaD	А	В	С	E
	1/2/5	0.1/0.2/0.5	8-16	32	32	172	7.5
	10	1	24-36	32	32	172	7.5
	15	1.5	Up to 40	32	32	172	7.5

Specifications are subject to change.

All dimensions are in mm.

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