MODEL

20410 CRANE LOAD CELL

Description

Ultra Precision Strain Gage based 20410 Crane Load Cell is versatile, compact and rugged. It is used for tension measurements, Crane weighing. It can be used in tension mode only. Tension Loading can be applied through Dee / Bow Shackles. It is available in 2 Tf to300 Tf capacities.

Features

- \rightarrow 2 to 300 TF Capacities available.
- \rightarrow High Alloy Tool Steel construction for resistance against shock and overload.
- \rightarrow Perpendicular hole design helps in minimizing external moments effects and improves safety &
- accuracy. \rightarrow It is light weight and portable.
- \rightarrow High Temperature version for foundry applications is available upon request.
- $\rightarrow\,$ Can be designed to fit your dimensional needs.
- \rightarrow High Alloy Tool Steel construction provided for ruggedness.

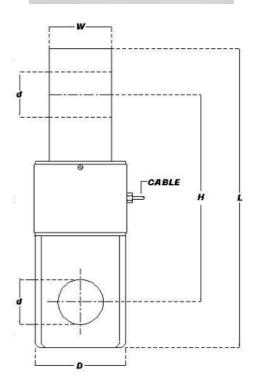
Applications

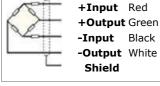
- \rightarrow To measure rope tension by inserting as a link in to the line.
- \rightarrow To measure towing force of the vehicles and Ships.
- \rightarrow Force Measurement Tension Dynamometer.
- \rightarrow Hanging & Crane Scale.
- \rightarrow Material handling equipments.
- \rightarrow Bollard Pull Test, Tug boats (Over Load detection weigh cable force testing drag for measurement) \rightarrow Cargo handling in Ship Yards.

Performance Specification

Standard Capacities TF	2,3,5,10,12,15,17,20,25,30,40,50,80, 100,125,200,250,300			
Excitation Voltage	10 VDC- Maximum 15 VDC			
Nominal Output	1.0 m V/ V			
Non - Linearity	< ±0.15% FSO			
Hysteresis	< ±0.25% FSO			
Non-Repeatability	< ±0.1% FSO			
Creep (30 minutes)	< ±0.1% FSO			
Zero Balance	±1.0% FSO			
Input Resistance	775 ± 15 Ohms			
Output Resistance	700 ± 3 Ohms			
Insulation Resistance (50 VDC)	> 1000 Mega Ohms			
Cable Length (4 Core Screened)	5 Meters			
Safe Overload of Rated Capacity	150%			
Ultimate Overload of Rated Capacity	200%			
Allowable Side Load	50%			
Temp. Compensated Range	0-60°C			
Temperature Effect on Output	< 0.0025% FSO/ ⁰ C			
Temperature Effect on Zero	< 0.0030% FSO/ ⁰ C			
Deflection	< 0.4 mm at FSO			
Finish & Construction	Electroless Nickel Plated Tool Steel			
Environmental Protection Class	Meets IP 67			
Electrical Termination				







-Output White Shield

CAD TO) D(Dia) W H L	Γ.	Recommende	ed Shackle		
CAP. TF.	d(Dia)		vv	н	L	Crosby	Anchor
2	17	33	19	113	150	2T-G/S-209,	2T-SL-2130/209
3,5	23	48	26	103	150	3.25T, 4.75T-G/S-209,	3.25T, 4.75T-SL-2130/209
10,12	36	63	45	134	200	9.5T,12T-G/S-209,	9.5T,12T-SL-2130/209
15,17	42	78	58	150	240	17T-G/S-209,	17T- SL-2130/209
20,25,30	42	88	58	150	240	30T-G/S-2140	17T- SL-2130/209
40,50	59	115	72	195	320	55T-G/S-2140, 2160	35T- SL-2130
80	72	148	102	243	390	85T-G/S-2140	55T- SL-2130
100,125	84	168	124	287	460	120T- G/S-2140, 2160	85T- SL-2130
200	106	210	145	350	575	200T-G/S-2160	120T- SL-2130
250.300	135	254	180	465	810	250T - G/S-2140.300T-G/S-2160	Not available

Specification are subject to change.

All dimensions are in mm.

MICROCONTROLLER BASED DIGITAL LOAD INDICATOR



SPECIFICATIONS :

Indication	: 5 Digits with Auto Polarity Red LED Display of 12.5mm character height.
Input Calibration	: LOAD CELL.
Load Cell Excitation	: Instrument will provide 10 V DC. for Load cell excitation.
Range	: Please specify.
Indicating Accuracy	: ±0.1% of full scale.
Resolution	: 10000 count.
Open Sensor Indication	: Indicated by Data Field as `SORRY'.
Zero & Tare	: Full Range Push Button Zero & Tare key provided.
Peak Hold / Normal	: At Power applied default will be NORMAL mode, Pressing this switch it will be convert to PEAK HOLD mode.
Kgf. / Newton	: At Power ON default will be KGF mode, Pressing this switch it will be convert to NEWTON mode.
Compression / Tension	: At Power ON default will be COMPRESSION mode while pressing this switch it will be convert to TENSION mode.
Size	 92mm (w) x 92mm (h) panel cut out with 140mm depth. Bazel size 96mm (w) x 96mm (h) of ABS cover with MS powder coated box.