Strain Gage Load Cell

The low profile Fatigue Rated compression-Tension Load cell is designed as the ultimate solution for some difficult applications with critical height for safety reasons.
The shear web design provides excellent performance even when the side force inevitably exists in normal operations. The typical example for side force resistance is the applications in motor truck scales. Load cell is constructed of alloy steel
and fully potted with special chemical compounds to IP67 providing excellent protection against moisture and humidity.

SPECIFICATIONS:

Parameter	Value	Unit
Rated Output R.O.	2	± mV/v
Rated output Tolerance	1	± mV/v
Zero Balance	1	± mV/v
Non Linearity	0.015	±% of rated output
Hystersis	0.0.15	±% of rated output
Non-repeatability	0.02	±% of rated output
Creep Error (20 Minutes)	0.03	±% of rated output
Zero Return (20 Minutes)	0.03	±% of applied Load
Temperature Effcet on min. Dead load Output	0.0026	±% of rated output °C
Temperature effect on sensitivity	0.0015	±%of rated output °C
Temparature Range Compensated	-10 to +40	°C
Operating Temperature Range	-20 to +60	°C
Maximum safe Overload	150	% of R.C.
Ultimate Overload	200	% of R.C.
Excitation Recommended	10	Vdc or Vac rms
Excitation maximum	15	Vdc or Vac rms
Input Impedence	770 +-10	Ohms
Output Impedence	700 +-5	Ohms
Insulation Resistance	>5000	mega-ohms
Construction	Anodised Aluminium	
Environmental Protection	IP 67	

FEATURES

- Capacities: 0.5 KN, 10 KN, 20 KN, 30 KN, 50 KN, 100 KN, 150 KN, 200 KN, 300 KN
- Electroless nickel plated alloy tool steel
- Compact size with low profile
- Stainless Steel available

Strain Gauge Input Signal Conditioners and Amplifier

Specifications:-

Strain gauge amplifier module provides a single channel of strain gauge input which is filtered, isolated, amplified, and converted to a high-level voltage output. Signal filtering is accomplished with a state of art filter which is optimized for step response. After the initial field-side filtering, The input signal is integrated by a proprietary circuit. Isolation is provided by transformer coupling, to suppress transmission of common mode spikes or surges.

Parameter	Typical	Units
Power supply	110/220 V AC	V AC
Bridge excitation	10 V	VDC
Bridge resistance	100 To 10K	OHM
Bridge sensitivity	Bridge sensitivity	mV/V
Gain adjustment (Pot - fine adj.)	50	% FR
Offset adjustment (Pot - fine adj.)	50	% FR
Bandwidth (No filter and > 2mV/V) - 3d B point	0.003	kHz
Filter cut-off (Switchable ranges) - 3 d B point	0.008	Hz
Zero temperature coefficient (@2.5mV/V)	0.025	%/°C @ 2.5mV/V
Span temperature coefficient	0.18	FR
Linearity	0.1	%/°C
Gain stability -1st 1000 Hours	3.1	% FR

+91 73500 02855 | +91 9850951042
info@focusautomation.in
www.focuscontrols.in
Focus Controls Pvt. Ltd.
Gat No. 69, At post: Shindewadi, Tal: Bhor, Pune - 412205