

MODEL

30310 - SINGLE ENDED SHEAR BEAM LOAD CELL

Description

30310 CE Certified is Single Ended Shear Beam Load Cell useful in Weighing Scale, Batching, Tank Weighing, Process & Machine Automation. It is constructed from high tensile tools steel for ruggedness and harsh industrial applications. Its design is strain gage based with full temperature compensation over 0 to 60°C range.

Features

- CE Rated 0.30 Kgf. to 10 Tf. Capacities available.
- Electro less Nickle plated tool Steel constructions for shock load.
- Complete Environmental Protection –Meets IP 67 class.
- Standardized output (3.0 ± 0.25%) available on request.
- Can be customized to suit customer's requirements.
- High Temperature version can be provided on request.

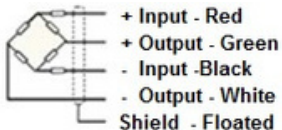
Applications

Conversion of Mechanical Scale to Electronic.
Tank, Hopper & Bag Weighing.
Force Measurement, Tension & or Compression Dynamometer.
Hanging & Crane Scale.
Industrial Automation.
Line tension measurement.
Process & machine automations.
Robotics.

Performance Specification

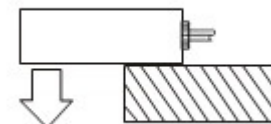
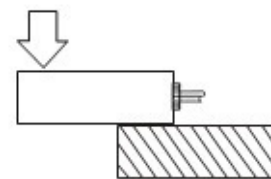
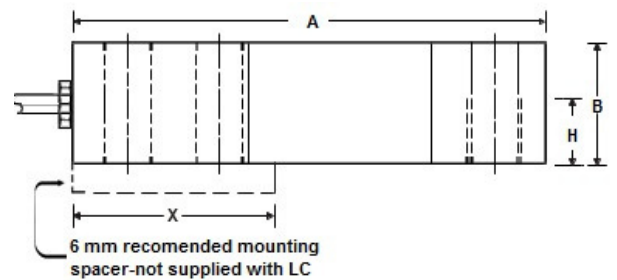
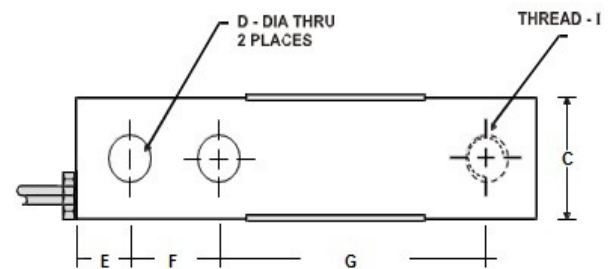
Standard Capacity	Kgf. Tf.	30, 50, 100, 200, 300, 500, 750, 1, 1.5, 2, 2.5, 3, 5, 7.5, 10
Excitation Voltage		10 VDC- Maximum 15 VDC
Nominal Output		3.0 mV/V +/- 0.5%
Non - Linearity		< ±0.025% FSO
Hysteresis		< ±0.02% FSO
Non-Repeatability		< ±0.01% FSO
Creep (30 minutes)		< ±0.03% FSO
Zero Balance		±1.0% FSO
Input Resistance		392 ± 15 Ohms
Output Resistance		350 ± 5 Ohms
Insulation Resistance (50 VDC)		> 1000 Mega Ohms
Safe Overload of Rated Capacity		150%
Ultimate Overload of Rated Capacity		250%
Allowable Side Load		50%
Temp. Compensated Range		0-60 °C
Temperature Effect on Output		< 0.0015% FSO/ °C
Temperature Effect on Zero		< 0.0020% FSO/ °C
Deflection		< 0.4 mm at FSO
Finish & Construction		Electro less Nickle plated Tool Steel
Environmental Protection Class		Meets IP 67

Electrical Termination



Options

- * Supportive Hardware such as :
WM-1 Weigh Module
- * Compatible Instruments with Relay output, 4-20 mA
or
0-2 Volt Output
- * Digital Version with RS-485 interface / USB output /
Blue Tooth Telemetry / Wireless Telemetry
- * Software for Graphic, Tabulation and Reporting
- * Customization with customers dimensions



Capacity	A	B	C	D	E	F	G	H	I	X	Torque	Cable
0-30 Kgf. To 0-2.5 Tf.	130	32	32	13	15	25	75	15	M12X1.25	55	2.5Kg.M	5 Mtrs.
3 Tf., 5 Tf.	172	38	38	21	19	38	95	19	M20 X 1.50	76	5Kg.M	5 Mtrs.
7.5 Tf., 10Tf.	223	50	50	25	25	50	120	25	M24 X 2.00	100	10Kg.M	10 Mtrs.

All dimensions are in mm.

Marketed by :

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