

Description

CE Certified 90610-TH is through hole compression Load Cell, specially designed for fastener testing where the compression loading of sensor is induced by tensile loading of the fastener. It is strain gage based with full temperature compensation over 0 to 60°C. It is easy to install and use. It can be used to measure suspended load by mounting the load cell on flat surface and apply load to top surface by the leg mount passed through the hollow center. Fastener testing can be done by passing it through hole. Then apply force by tightening the nut. Washers at both ends are recommended to avoid damage to the cell's loading surfaces.

Features

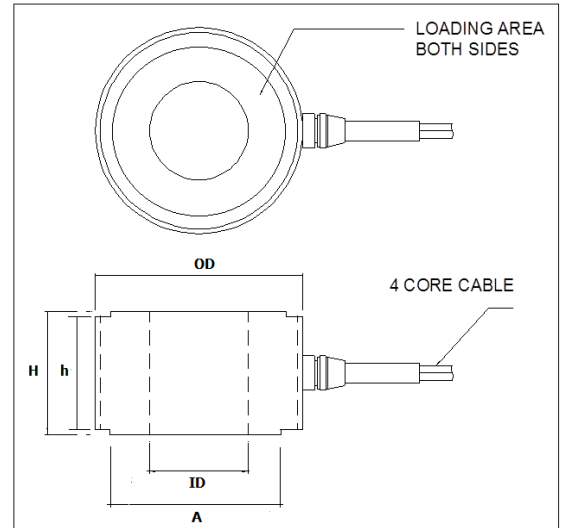
- ❖ **CE Rated** ❖ 5Tf to 500Tf capacities are offered.
- ❖ Complete environmental protection for gage area is provided for IP-65 protection class.
- ❖ Standard output of 2mV/V is provided.
- ❖ Optionally can be offered in Stainless Steel 17-4 ph grade.
- ❖ Other capacities can be customized as per requirements.

Applications

Fastener Testing	Civil Engineering Testing
Bolt Force Measurement	Injection Molding Machine
Material Testing	Tablet Manufacturing Machine
Press Calibration	Robotics & Industrial Automation
Weighing hanging load , suspended load	Tensile force for prestressed concrete suspension weighing
Rock Bolts	Pulling force measurement

Performance Specification

Standard Capacities	5, 7.5, 10, 15, 20, 30, 50, 100, 150, 200, 300, 500 TF.
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V
Non - Linearity	< ±0.5% FSO (from 5% to 100% range)
Hysteresis	< ±0.25% FSO
Non-Repeatability	< ±0.10% FSO
Creep (30 minutes)	< ±0.03% FSO
Zero Balance	±1.0% FSO
Input Resistance	770 ± 20 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	250%
Allowable Side Load	50%
Temp. Compensated Range	0-60 °C
Temperature Effect on Output	< 0.0025% FSO/ °C
Temperature Effect on Zero	< 0.0030% FSO/ °C
Deflection	< 0.4 mm at FSO
Finish & Construction	Electroless Nickel Plated Tool Steel
Environmental Protection Class	IP 65



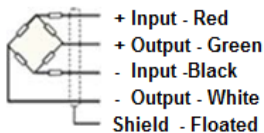
Capacity Tf.	ID*	A**	OD- Appx.	H- Appx.	h
5	15	20	84	50	47
10	20	28	84	50	47
15	30	38	84	50	47
20	35	45	84	50	47
30	40	56	84	50	47
50	45	63	84	50	47
75	55	77	150	100	95
100	60	86	150	100	95
150	75	106	150	100	95
200	90	125	150	100	95
300	120	160	220	150	145
500	150	204	300	200	195

*May vary to fit customers requirement

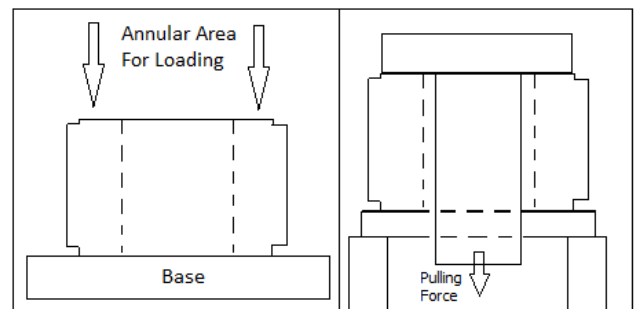
**May vary depending upon ID

Electrical Termination

Options



- * Mounting Module WM-II
- * 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



Specification are subject to change.

All dimensions are in mm.



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