

Description

90610-T-Fatigue Rated Pancake universal load cells are suitable for repeated load applications where impact load is present for endurance testing of machines or equipment. This is constructed from High Tensile grade tool steel suitable for harsh industrial applications. It is sealed for IP65 protection class and it has long life. It is available with integral thread. This can be supplied optionally at an extra cost with matched threaded base plate suitable for tension/compression applications. It is designed for 10Million operations.

Features

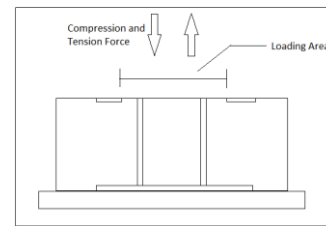
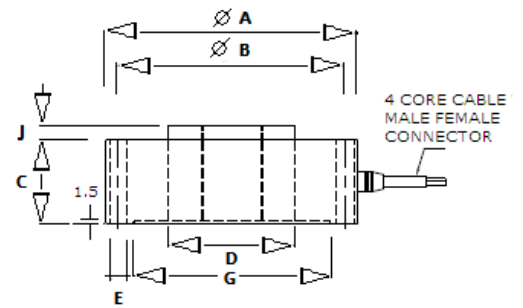
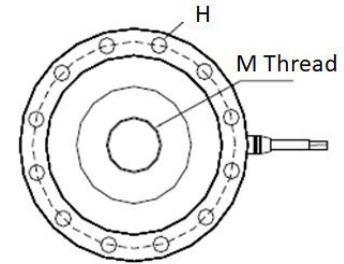
0 -1Tf. to 0 - 300Tf Capacities offered.
 Low profile for Tensile & Compressive Force applications.
 Can be provided with loading button and base plate on request.
 Hardened tool steel/SS 17-4 PH construction.
 Complete environmental protection IP 65 class.

Applications

Fatigue testing	Material testing
Industrial Automation	Robotics
Research	Static & Dynamic Force Measurement

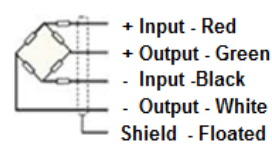
Performance Specification

Standard Capacities – TF.	0.1, 0.2, 0.5, 1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	1.5 m V/ V
Non – Linearity	< ±0.15% FSO (Full Scale Output)
Hysteresis	< ±0.15% FSO
Non-Repeatability	< ±0.1% FSO
Creep (30 minutes)	< ±0.04% FSO
Zero Balance	±1.0% FSO
Input Resistance	770 ± 20 Ohms
Output Resistance	700 ± 7 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable – 4 core	5 Meters
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	300%
Allowable Side Load	50%
Temp. Compensated Range	0-60°C
Temperature Effect on Output	< 0.005% FSO/ °C
Temperature Effect on Zero	< 0.005% FSO/ °C
Deflection	< 0.4 mm at FSO
Environmental Protection Class	Meets IP65
Cyclic Life	10 Million Operations



Electrical Termination

Options



*Mounting Hardware can be offered on request
 *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, Reporting and Analysis

Capacity – Tf	A	B	C	J	D	G	E DIA. X H PLCS.	M Thread	Finish & Construction
0.1, 0.2, 0.5	90	70	28	2	23	58	8.5 X 8	16 X 1.5	SS 17-4 PH
1, 1.5, 2, 3	115	90	28	2	42	75	10.4 X 8	30 X 2	SS 17-4 PH
5, 7.5, 10	155	125	38	2	61	103	12.7 X 8	39 X 2	SS 17-4 PH
15, 20	210	180	45	5	87	153	12.7 X 16	42 X 2	SS 17-4 PH / Tool Steel
30, 50	280	250	65	5	132	223	16.5 X 16	72 X 2	Electro less Nickel Plated Tool Steel
75, 100	305	270	70	10	142	243	21 X 16	90 X 3	Electro less Nickel Plated Tool Steel
150, 200	395	350	80	10	187	308	21 X 32	120 X 4	Electro less Nickel Plated Tool Steel
300	450	395	100	10	245	330	25 X 32	150 X 4	Electro less Nickel Plated Tool Steel

Specifications are subject to change without notice.

All Dimensions are in.



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