

APT-961

UNIVERSAL PAN CAKE LOAD CELL



DESCRIPTION :

APT-961 is a low profile design for tensile & compression force measuring.

APPLICATIONS :

- Material testing
- Force Calibration
- Robotics
- Static & Dynamic Measurement

KEY FEATURES :

- Wide capacity range from 50 kgf to 450 tonf
- Alloy Tool Steel construction
- High Environment Protection
- Optionally Available for High Temperature Application

SPECIFICATIONS :

Rated capacity (Kgf)	:	50, 100, 200, 300, 500, 750
(Tonf)	:	1, 1.5, 2, 3.5, 7.5, 10, 15, 20, 30, 40, 50, 60, 75, 100, 150, 200, 300, 450
Excitation Voltage	:	10VDC-Maximum 15 VDC
Rated Output	:	2.0 mV/V
Non – Linearity	:	< ± 0.1 % FSO (Full scale Output)
Hysteresis	:	< ± 0.15 % FSO
Non-Repeatability	:	< ± 0.1 % FSO
Creep error (30 minutes)	:	< ± 0.04 % FSO
Zero Load Output	:	± 1.0 % FSO
Input Resistance	:	390 \pm 10 Ohms up to 1T 770 \pm 20 Ohms 2T & Above
Output Resistance	:	390 \pm 10 Ohms up to 1T 700 \pm 7 Ohms 2t & Above
Insulation Resistance	:	> 1000 Mega Ohms
Side Load Allowed	:	50 % of Rated Capacity
Safe Overload	:	150 % of Rated Capacity
Ultimate Overload	:	200 % of Rated Capacity
Temperature Compensated Range	:	0 to 60° C
Temperature Effect on Output	:	< 0.005 % FSO/° C
Temperature Effect on Zero	:	< 0.005 % FSO/° C
Deflection	:	< 0.4 mm at FSO
Finish & Construction	:	Electroless Nickel Plated Tool Steel. Stainless Steel available optionally.
Environment Protection	:	IP 65



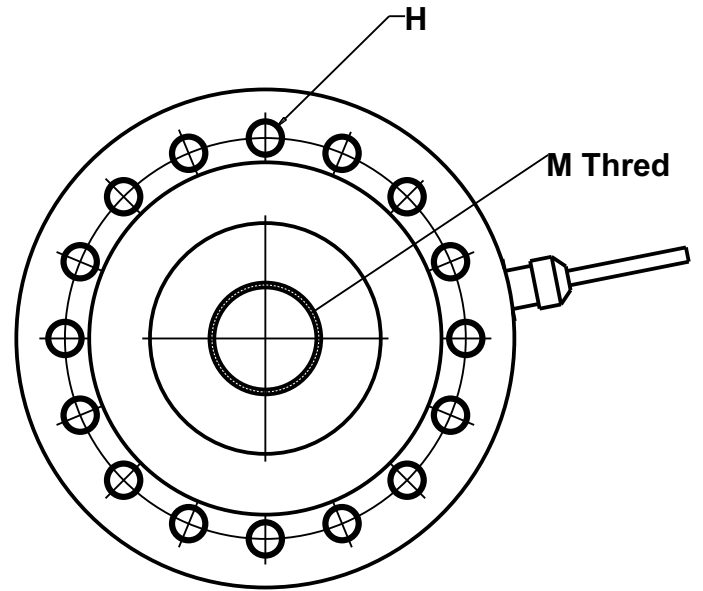
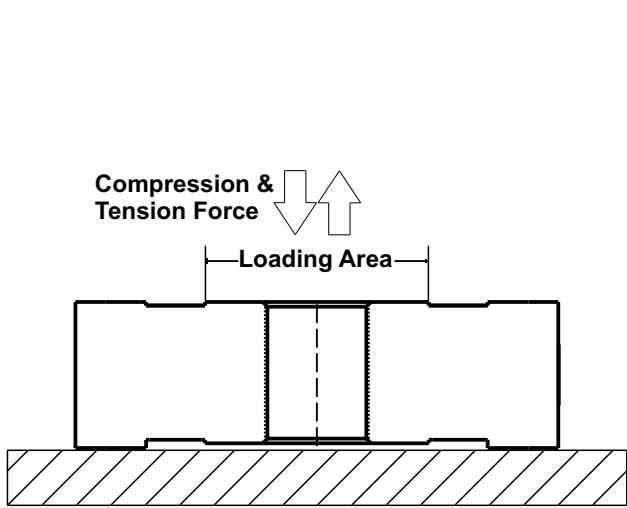
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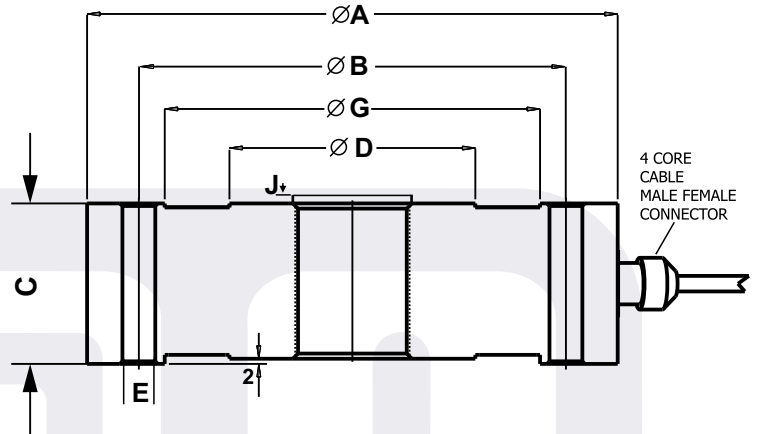
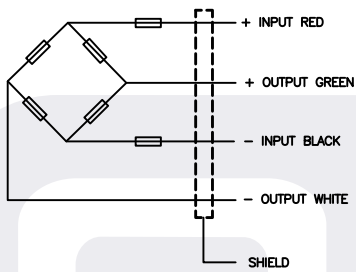
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Electrical Termination



CAPACITY Tf	A	B	C	J	D	G	E DIA X H PLCS.	M Thread
0.05, 0.1, 0.2, 0.5, 0.75, 1, 1.5, 2, 3	50	42	24	1	15	33	4.2 X 4	12 X 1.25
1.5, 2, 3, 5	90	70	29	2	23	58	6.2 X 8	16 X 1.5
7.5, 10, 15	115	90	39	2	42	75	10.4 X 8	30 X 2
20, 30	155	125	49	2	61	103	12.7 X 8	39 X 2
40, 50, 60	205	165	59	3	95	145	12.7 X 16	42 X 2
75, 100	280	250	70	5	125	210	16.5 X 16	72 X 2



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