



Description

90610-B is pancake compression type load cell & it is strain gauge based sensor with temperature compensation over 10 to 50°C. This is constructed from SS 17/4 PH Tool Steel suitable for harsh industrial applications. It is sealed for IP 65 protection class & it has long life. It is available with integral Button for loading. It can be customized to customer's specific dimensions for replacements.

Applications

- Compression Testing
- Tablet Hardness Testing
- Force & Impact Testing
- Low Profile floor scale
- Industrial Automation
- Tank, Silo Weighing
- Robotics

Key Features

High accuracy available with class 1, 0.5, 0.0
As per standard ISO 376 : 2011

Complete Environmental Protection – Meets
IP 65, IP 67 & or IP 68 class

Electro less nickel-plated tool steel & stainless
steel constructions

A high-temperature version can be provided
on request

Wide range of capacities from 50KGF to
450 KGF.

Standardized output (2.0 mV/V) and
customized output can be provided on
request

Calibration in mV/V/Ω

Can be **customized** to suit customer's need

Technical Specifications

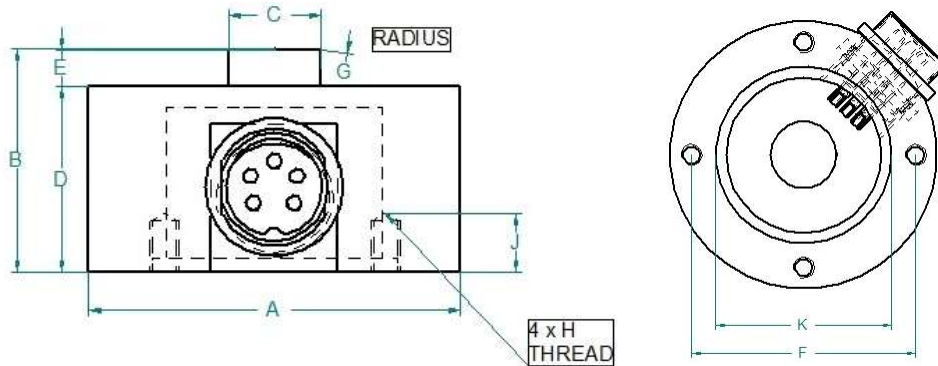
STANDARD CAPACITY		50, 100, 200, 300, 500, 750	KGF.
		1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300, 400, 450	TF.
PERFORMANCE	Non - Linearity	< $\pm 0.1\%$ FSO	
	Hysteresis	< $\pm 0.15\%$ FSO	
	Non-Repeatability	< $\pm 0.1\%$ FSO	
	Creep (30 minutes)	< $\pm 0.04\%$ FSO	
	Zero Balance	$\pm 1.0\%$ FSO	
ELECTRICAL	Output	2.00 mV/V	
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10 VDC)	
	Input Resistance	770 $\pm$ 20 Ω (Ohms) 1.5 T & Above 390 $\pm$ 10 Ω (Ohms) up to 1T	
	Output Resistance	700 $\pm$ 7 Ω (Ohms) 1.5 T & Above 350 $\pm$ 5 Ω (Ohms) up to 1T	
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)	
STRUCTURE	Safe Overload Of Rated Capacity	150%	
	Ultimate Overload of Rated Capacity	200%	
	Allowable Side Load	50%	
	Deflection	< 0.4 mm at FSO	
	Finish Product	Electro less nickel-plated tool steel / SS 17-4 PH	
	As per IS/IEC 60529:2001	IP65, IP67, IP68	
TEMP.	Operating Temperature	0°C to 60°C (Optional 90°C, 120°C, 150°C)	
	Compensated Temperature	10°C to 50°C (Optional 90°C, 120°C, 150°C)	
	Temperature Effect on Output	< 0.005 % FSO/ °C	
	Temperature Effect on Zero	< 0.005 % FSO/ °C	
OPTIONAL	ATEX	II 3D EX tcIIIC T60°C DC, II 3G EX ec IIC GC	
	High Temperature Cable	Teflon Cable	
	High Temperature Range	40°C to 90°C (Temperature Effect on Output & Zero : < 0.020% FSO/ °C)	
	Accessories	DLC-6 DLC-6M DIGITAL LOAD CONTROLLER (MULTI. O/P)	

90610-B

PAN CAKE COMPRESSION LOAD CELL



Dimension (mm)

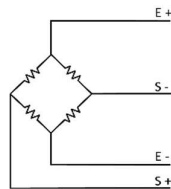


CAPACITY-TF	A	F	C	D+E	G-Radius	H	J	K	MOC	CABLE
0.05, 0.1, 0.2, 0.3, 0.5, 0.75, 1	50	42	13	25+5	150	M4 x 0.7	6	34	SS 17-4 PH	5 Meter
1.5, 2, 3, 5	90	70	25	30+5	150	M6 x 1.0	8	58	SS 17-4 PH	5 Meter
7.5, 10, 15	115	90	32	30+5	150	M8 x 1.25	10	75	SS 17-4 PH	5 Meter
20, 30	155	125	44	30+5	150	M12 x 1.5	12	103	SS 17-4 PH	5 Meter
50	210	180	60	35+5	430	M12 x 1.5	15	153	Tool steel	5 Meter
75, 100	280	250	80	40+10	430	M16 x 1.5	20	223	Tool steel	5 Meter
150, 200	305	270	100	65+10	430	M20 x 1.5	20	243	Tool steel	5 Meter
300	395	350	120	65+10	430	M20 x 1.5	20	308	Tool steel	5 Meter
400, 450	450	390	150	75+10	430	M20 x 1.5	20	330	Tool steel	5 Meter

All dimensions are in mm.

Specifications are Subject to Change.

Electrical Termination



Excitation(E+)	Red
Signal(S-)	White
Excitation(E-)	Black
Signal(S+)	Green
Shield	