



Description

90610-M-TH-U is Mini Pancake Load cell used for compression and tension inline loads where space is constraint. It is constructed from Aluminium Alloy or stainless steel 17-4 PH. It is designed for harsh and hygienic industrial applications. This load cell is provided with M8 mounting threaded on both ends for compressive and or tensile loadings. It is strain gauge based sensor with temperature compensation over 10 to 50 °C.

Applications

- Compression/ Tensile Force Testing
- Force and Impact Testing
- Robotics
- Test Bench
- Automation
- Pharma Machinery

Key Features

High accuracy available as per standard ISO 376:2011.

Complete Environmental Protection – Meets IP 65 class

Aluminum Alloy or Stainless steel 17-4 PH constructions

Wide range of capacities from 10 KGF to 1500 KGF.

Standardized output (1.5 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

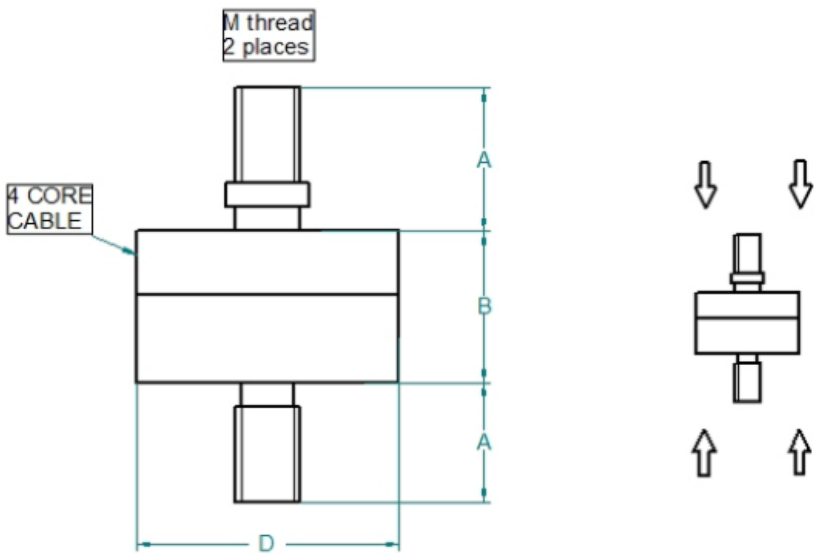
STANDARD CAPACITY		10, 20, 50, 100, 200, 500, 1000, 1500	-KGF
PERFORMANCE	Non - Linearity	< ± 0.25 % FSO	
	Hysteresis	< ± 0.1 % FSO	
	Non-Repeatability	< ± 0.1 % FSO	
	Creep (30 minutes)	< ± 0.03 % FSO	
	Zero Balance	$\pm 1.0\%$ FSO	
ELECTRICAL	Output	1.5 mV/V	
	Excitation Voltage	Maximum 15 VDC (Suggested 5Vdc / 10 Vdc)	
	Input Resistance	$390 \pm 10.0 \Omega$ (Ohms)	
	Output Resistance	$350 \pm 3.0 \Omega$ (Ohms)	
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)	
STRUCTURE	Safe Overload Of Rated Capacity	150%	
	Ultimate Overload of Rated Capacity	250%	
	Allowable Side Load	50%	
	Deflection	< 0.4 mm at FSO	
	Finish Product	Aluminum Alloy, Stainless Steel 17-4 PH	
	As per IS/IEC 60529:2001	Will meet to IP65	
TEMP.	Operating Temperature	0°C to 60°C	
	Compensated Temperature	10°C to 50°C	
	Temperature Effect on Output	< 0.05 % FSO/ °C	
	Temperature Effect on Zero	< 0.05 % FSO/ °C	

90610-M-TH-U

MINI PANCAKE INLINE LOAD CELL



Dimensions (mm)

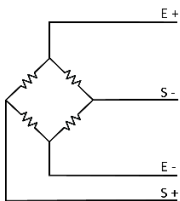


CAPACITY-KGF	A	B	D-ø	M THREAD	MOC	CABLE
10, 20	8	20	30	6	Aluminum Alloy	2 Meter
50, 100, 200	8	20	30	6	SS 17-4 PH	2 Meter
500, 1000, 1500	15	20	32	8	SS 17-4 PH	2 Meter

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	