



Description

20610-F is Strain Gauge based load cell with temperature compensation over 10 °C to 50 °C range. It is universal load cell for compression & tension force measurements. This has female threads at both ends for fixing it into the system. It is very useful for In-line force measurements. It is constructed from tool steel for toughness & ruggedness. It is sealed for IP65 protection class for environment.

Applications

- Line tension measurement
- Hanging type of weighing
- Force Measurement in hydraulic system.
- Calibration of testing machine.
- Thrust measurement.
- Industrial process control.

Key Features

High accuracy available as per standard ISO 376:2011

Complete Environmental Protection – Meets IP 65.

High Alloy tool steel constructions for resistance against shock and over load.

Male thread version Model 20610-M is available.

A high-temperature version can be provided on request.

Can be supplied with suitable electronic transmitter, Indicator and Controller.

Wide range of capacities from 1TF to 450TF.

It is light weight and portable.

Calibration in mV/V/Ω.

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

Technical Specifications

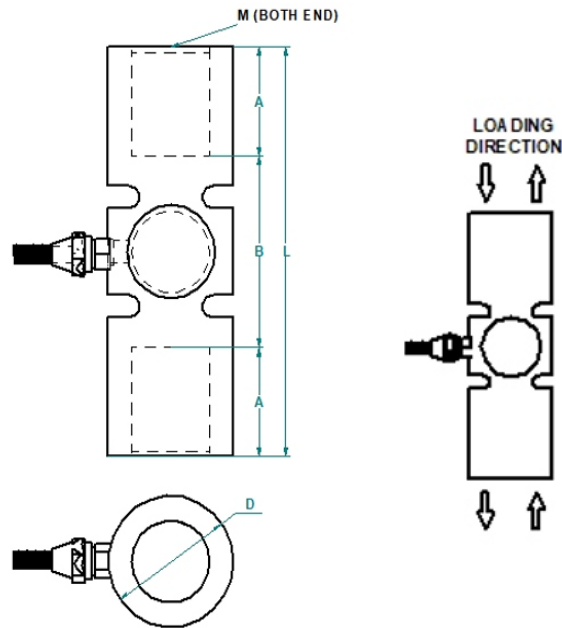
STANDARD CAPACITY		1, 2, 5, 7.5, 10, 15, 20, 30, 40, 50, 75, 100, 150, 200, 300, 450 - TF
PERFORMANCE	Non - Linearity	< ± 0.2 % FSO
	Hysteresis	< ± 0.2 % FSO
	Non-Repeatability	< ± 0.2 % FSO
	Creep (30 minutes)	< ± 0.1 % FSO
	Zero Balance	± 1.0 % FSO
ELECTRICAL	Output	2.00 mV/V
	Excitation Voltage	Maximum 15 VDC (Suggested 5Vdc / 10Vdc)
	Input Resistance	$775 \pm 15 \ \Omega$ (Ohms)
	Output Resistance	$700 \pm 3 \ \Omega$ (Ohms)
	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
	As per IS/IEC 60529:2001	IP 65
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	< 0.0025 % FSO/ °C
	Temperature Effect on Zero	< 0.0030 % FSO/ °C
OPTIONAL	ATEX	II 3D EX tc IIIC 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 HH-06 DIGITAL LOAD CONTROLLER (MULTI. O/P)

20610 - F

TENSION LINK LOAD CELL



Dimension (mm)

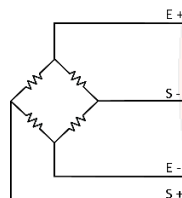


CAPACITY-TF	A	B	L	M - THREAD	D - ϕ	CABLE
1, 2, 5	25	50	100	M 20 X 1.5	38	5 Meter
7.5, 10	40	70	150	M 30 X 2	48	5 Meter
15, 20	50	75	175	M 39 X 2	58	5 Meter
30, 40, 50	75	90	240	M 64 X 4	114	5 Meter
75, 100, 150	100	150	350	M 90 X 4	148	5 Meter
200, 300	135	180	450	M 125 X 4	178	5 Meter
450	160	230	550	M 150 X 4	240	5 Meter

All dimensions are in mm.

Specification are subject to change.

Electrical Termination



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