



Description

20310 is Precision Tension Type Load cell useful in hanging type weighing, Compressive & Tensile Testing, Process & Machine Automation and Line Tension Measurement. It is constructed from high tensile tool steel for ruggedness and harsh industrial applications. It is strain gauge based load cell with full temperature compensation over 10°C to 50 °C range.

Applications

- Conversion of a Mechanical Scale to an Electronic
- Tank, Hopper & Bag Weighing
- Force measurement, tension, or compression dynamometer
- Hanging and crane scale
- Industrial Automation
- Line tension measurement
- Process and machine automation
- Robotics

Key Features

High accuracy available As per standard ISO 376:2011

Complete Environmental Protection – Meets IP 65 & IP 67

Ideal for industrial Platform scales

Electro less nickel-plated tool steel
Constructions against shock & overload.

A high-temperature version can be provided on request

Wide range of capacities from 2 TF to 20TF.

Standardized output (3.0 mV/V) and customized output can be provided on request

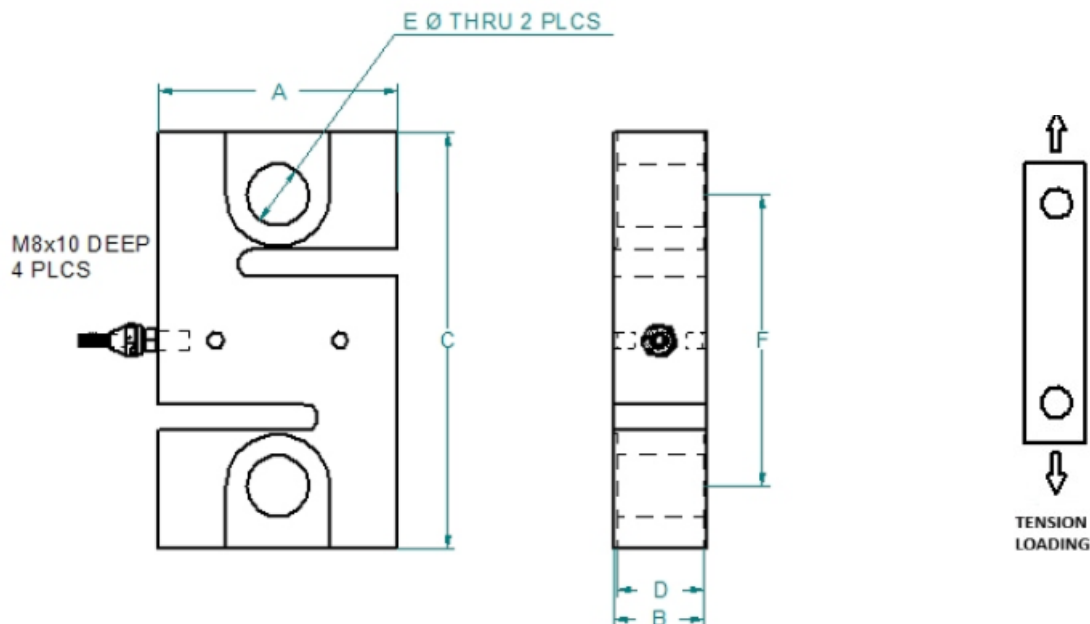
Calibration in mV/V/Ω

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

Technical Specifications

STANDARD CAPACITY		2, 3, 5, 7.5, 10, 15, 20	-TF
PERFORMANCE	Non - Linearity	< $\pm 0.025\%$ FSO	
	Hysteresis	< $\pm 0.02\%$ FSO	
	Non-Repeatability	< $\pm 0.01\%$ FSO	
	Creep (30 minutes)	< $\pm 0.03\%$ FSO	
	Zero Balance	$\pm 1.0\%$ FSO	
ELECTRICAL	Output	3.00 mV/V	
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10 VDC)	
	Input Resistance	$392 \pm 15 \ \Omega$ (Ohms)	
	Output Resistance	$350 \pm 3 \ \Omega$ (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	Electro less nickel-plated tool steel	
	As per IS/IEC 60529:2001	IP 67	
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	< 0.0015 % FSO/ °C	
	Temperature Effect on Zero	< 0.0020 % 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 HH-06 DIGITAL LOAD CONTROLLER (MULTI. O/P)	

Dimension (mm)

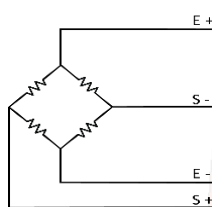


CAPACITY-TF	A	B	C	D	E-ø	F	CABLE
2, 3	75	27	100	27	13	75	5 Meter
5, 7.5	90	32	140	32	20	100	5 Meter
10	115	45	200	40	30	140	5 Meter
15, 20	150	65	250	60	46	175	5 Meter

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	