



Description

80210 is double ended shear beam load cell which is ideally suited for truck, tank & hopper weighing. This is Constructed from electro less nickel plated heat treated tool steel suitable for harsh industrial applications. Carter Supported and end loaded design with ring and torsion bar loading mechanism makes it free from side load and makes it fast settled to applied load. Transient voltage protection is provided for protection against lightning and line voltage faults.

It is also available in Digital version, equipped with fully Embedded Electronics with RS 485 Communication capability for easy interface over long distance without signal loss.

Applications

- Truck Weighbridge
- Truck, Tank & Hopper weighing
- Tensile Testing

Key Features

High accuracy available 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 for shock & over load

A high-temperature version can be provided on request

Wide range of capacities from 10 TF to 100 TF

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

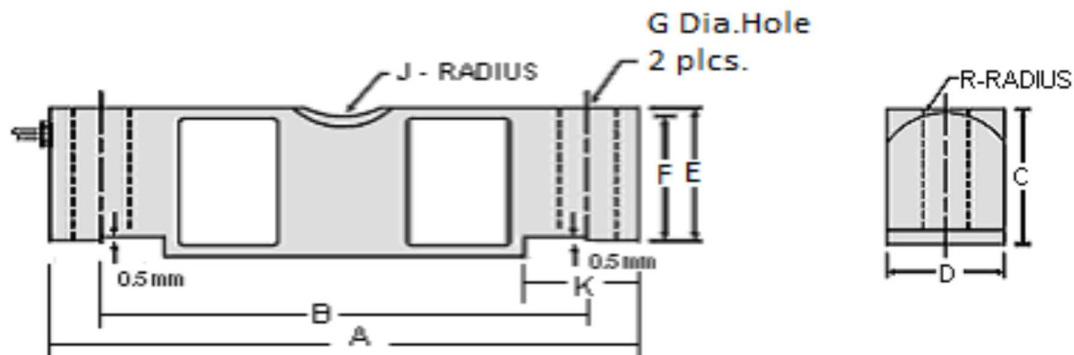
STANDARD CAPACITY		10, 15, 20, 30, 45, 50, 75, 100 -TF
PERFORMANCE	Non - Linearity	< ± 0.025 % FSO
	Hysteresis	< ± 0.02 % FSO
	Non-Repeatability	< ± 0.01 % FSO
	Creep (30 minutes)	< ± 0.03 % FSO
	Zero Balance	± 1.0 % FSO
ELECTRICAL	Output	2.00 mV/V (Customized Output available on request)
	Excitation Voltage	Maximum 15 VDC (Suggested 5VDC / 10VDC)
	Input Resistance	$770 \pm 20.0 \Omega$ (Ohms)
	Output Resistance	$700 \pm 2.0 \Omega$ (Ohms)
	Insulation Resistance	(100 VDC) > 1000 Mega Ω (Ohms)
STRUCTURE	Safe Overload Of Rated Capacity	150%
	Ultimate Overload of Rated Capacity	300%
	Allowable Side Load	50%
	Deflection	< 0.5 mm at FSO
	Finish Product	Electro less nickel-plated tool steel / SS 17-4 PH
	As per IS/IEC 60529:2001	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	< 0.0015 % FSO/ °C
	Temperature Effect on Zero	< 0.0020 % 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)

80210

DOUBLE ENDED SHEAR BEAM LOAD CELL



Dimension (mm)

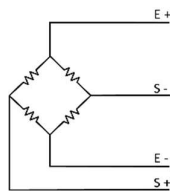


CAPACITY-TF	A	B	C	D	E	F	G	H	J	K	CABLE
10, 15, 20, 30, 45	260	216	72	64	61	52	25	6	25	13	15 Meter
50, 75, 100	292	254	86	76	70	60	38	10	38	20	15 Meter

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	