

Description

20310-Round is precision tension type S Beam Load Cell , used in hanging type weighing, process & machine automation and line tension measurement. It is sealed for gaging cavity for harsh environmental applications.. Its pendulum mounting design ensures for load point always in central axis of the load cell geometry for accurate tension measurements.

It is constructed from high tensile tools steel for ruggedness and harsh industrial applications. It is strain gage based load cell with full temperature compensation over 0 to 60°C range. **Hermetically sealed SS version with laser welding is available optionally upon request.**

Features

- ❖ 2 , 5, 10, 15, 20 TF. Capacities available.
- ❖ High Alloy Tool Steel / SS construction for resistance against shock and overload.
- ❖ Complete Environmental Protection -IP68 class- Laser Welded.
- ❖ Standardized output (2.0 ± 0.25%) available on request.
- ❖ Can be customized to suit customer's requirements.
- ❖ High Temperature version can be provided on request.

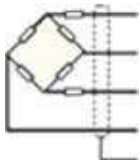
Applications

- ❖ Conversion of Mechanical Scale to Electronic.
- ❖ Axle weighing
- ❖ Tank, Hopper & Bag Weighing.
- ❖ Force Measurement, Tension Dynamometer.
- ❖ Hanging & Crane Scale.
- ❖ Industrial Automation.
- ❖ Line tension measurement.
- ❖ Process & machine automations.
- ❖ Robotics.

Performance Specification

Standard Capacities	2 , 5 , 10, 15, 20 TF.
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	2.0 m V/ V
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
Input Resistance	392 ± 15 Ohms
Output Resistance	350 ± 3 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Cable Length (4 Core Screened)	Please See table
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	250%
Allowable Side Load	50%
Temp. Compensated Range	0-60 °C
Temperature Effect on Output	< 0.0015% FSO/ °C
Temperature Effect on Zero	< 0.0020% FSO/ °C
Deflection	< 0.4 mm at FSO
Finish & Construction	Electroless Nickel Plated Tool Steel / SS
Environmental Protection Class	Meets to IP 67 Meets to IP 68 – Laser Welded (Optional)

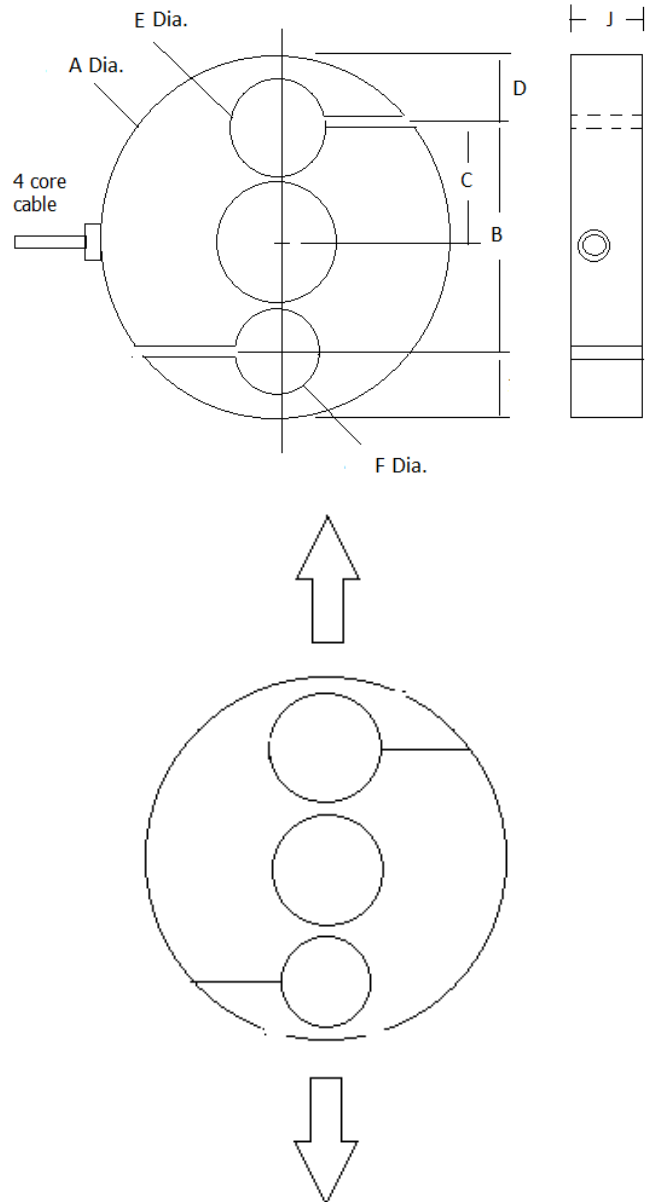
Electrical Termination



+Input	Red
+Output	Green
-Input	Black
-Output	White
Shield	

CAPACITY – TF.	A	B	C	D	E (Dia)	F	J	CABLE-MTR.
2 , 5 ,10	137	66	35	32	32.5	26	40	10
15 , 20	187	87	40.5	53	48	36	57	10

Specification are subject to change Dimensions are in mm



Manufactured by:

ADI ARTECH
TRANSDUCERS PVT. LTD.

A Joint venture with
ARTECH INDUSTRIES INC., U.S.A

917/1, G.I.D.C. Estate, Makarpura Vadodara - 390 010. Gujarat, INDIA

Ph : +91-265-2655083, 2651023

Fax : +91-265-2638751

M : +91-9374068998, 9327425560

Email : sales@adiartech.com, adiartech@adiartech.com

Website: www.adiartech.com