

model

# 20210

## S-BEAM LOAD CELL



### FEATURES :

- ❖ 20 Kgf. to 20000 Kgf. Capacities available
- ❖ High Alloy Tool Steel construction for resistance against shock and overload
- ❖ Complete Environmental Protection -IP67 class
- ❖ Standardised output (3.0 ± 0.25%) available on request

### APPLICATIONS :

- ❖ Conversion of Mechanical Scale to Electronic
- ❖ Tank, Hopper & Bag Weighing
- ❖ Hanging Scale & Crane Scale
- ❖ Force Measurement-Tension & or Compression
- ❖ Dynamometer
- ❖ Industrial Automation

### DESCRIPTION :

Ultra Precision Strain Gage based 'S'-beam Load Cell is versatile, compact and rugged. It is used for tension measurements, tensile testing, weighing, industrial automation and research applications. It is universal Load Cell suitable for both-tension and compression modes.

### PERFORMANCE SPECIFICATION :

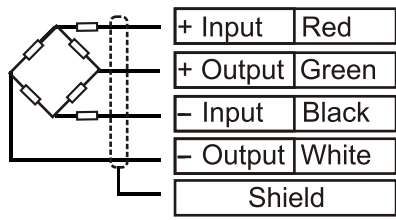
<b>Standard Capacities (Kgf.)</b>	: 20, 30, 50, 75, 100, 150, 200, 250, 300, 500, 750
<b>(Tf)</b>	: 1, 1.5, 2, 2.5, 3, 5, 7.5, 10, 15, 20
<b>Excitation Voltage</b>	: 10 VDC - Maximum 15 VDC
<b>Nominal Output</b>	: 3.0 mV/V
<b>Non - Linearity</b>	: < ± 0.025 % FSO (Full Scale Output)
<b>Hysteresis</b>	: < ± 0.02 % FSO
<b>Non-Repeatability</b>	: < ± 0.01% FSO
<b>Creep (30 minutes)</b>	: < ± 0.03 % FSO
<b>Zero Balance</b>	: ± 1.0 % FSO
<b>Input Resistance</b>	: 392 ± 15 Ohms
<b>Output Resistance</b>	: 350 ± 3 Ohms
<b>Insulation Resistance</b>	: > 1000 Mega Ohms at 50 VDC
<b>Safe Overload</b>	: 150 % of Rated Capacity
<b>Ultimate Overload</b>	: 250 % of Rated Capacity
<b>Allowable Side Load</b>	: 50 % of Rated Capacity
<b>Temperature</b>	: 0-60° C
<b>Compensated Range</b>	
<b>Temperature Effect on Output</b>	: < 0.0015 % FSO/ °C
<b>Temperature Effect on Zero</b>	: < 0.0020 % FSO/ °C
<b>Deflection</b>	: < 0.5 mm at FSO
<b>Tightening Torque</b>	: Please refer table on back page
<b>Finish &amp; Construction</b>	: Electroless Nickel Plated Tool Steel
<b>Environmental Protection Class</b>	: IP67



**ADI ARTECH**  
TRANSDUCERS PVT. LTD.

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

**ELECTRICAL TERMINATION**

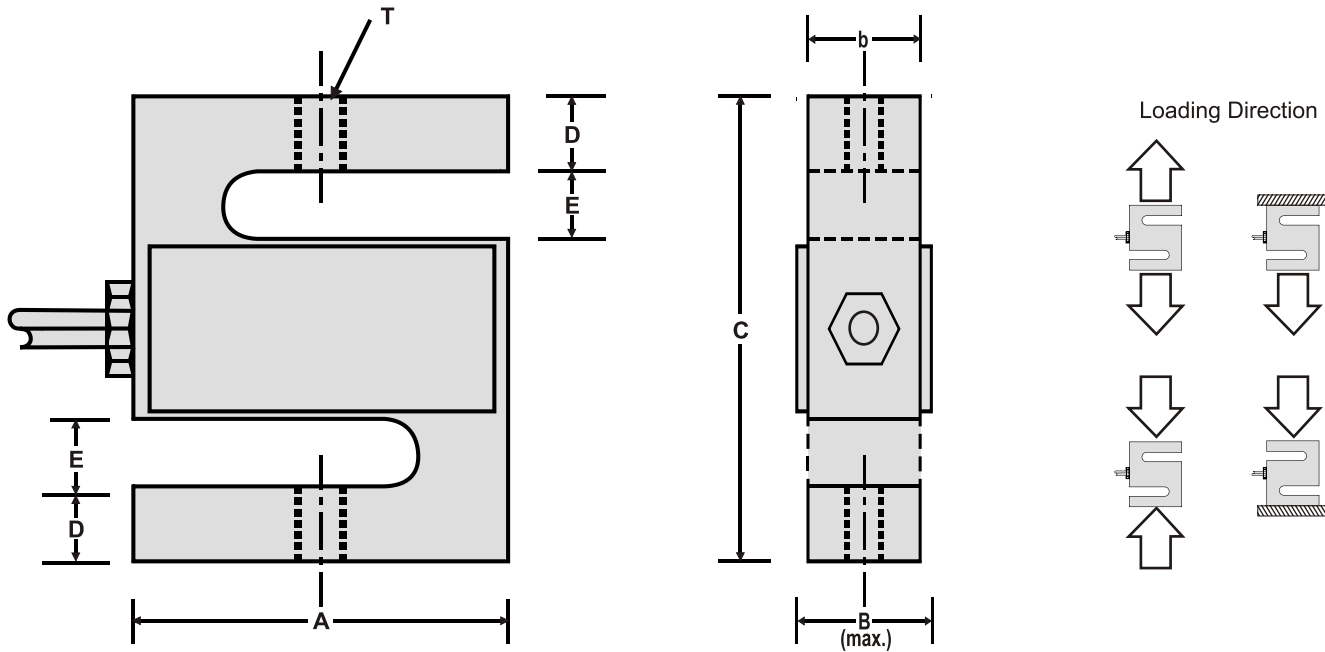


4 CORE SCREENED CABLE

**COMPRESSION POSITIVE**

CAPACITY Kgf.	A	B (max.)	b	C	T	D	E	Torque m. kg.	Cable Length Mtrs.
20 to 100	50	20	12.5	62	M6 x 1.00	10	9	0.25	5
150 to 1000	50	25	19	62	M12 x 1.25	10	9	0.50	5
1500 to 3000	75	33	27	100	M20 x 1.50	17	9	2.00	5
5000 to 7500	90	40	32	140	M24 x 2.00	25	9	9.00	10
10000	112	52	45	175	M30 x 2.00	40	13	10.00	20
15000 to 20000	150	72	65	250	M36 x 3.00	60	13	12.00	20

All dimensions are in mm.



**ORDER INFORMATION :**

**ADI ARTECH** is dedicated in maintaining adequate inventories of its Load Cells to provide the best service in the industry.

Order by the model number and indicate the capacity required.

Specifications are subject to change without notice

	Manufactured by :	917/1, G.I.D.C. ESTATE, MAKARPURA, VADODARA - 390 010 (INDIA)
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	<b>TRANSDUCERS PVT. LTD.</b>	FAX : (91) 0265-2638751
	A Joint venture with ARTECH INDUSTRIES INC., U.S.A.	E-mail : sales@adiartech.com artechad1@sancharnet.in
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**QUALITY \* PERFORMANCE \* SERVICE**  
**“A PREFERRED NAME IN LOAD CELL TECHNOLOGY”**