MODEL 20210 SS- BEAM LOAD CELL

Description

20210-SS is precision universal type Load Cell useful in hanging type weighing, universal testing, process & machine automation and line tension measurement. It is constructed from high tensile tools steel for ruggedness and harsh industrial applications. It's design is strain gage based with full temperature compensation over 0 to 60°C range.

Features

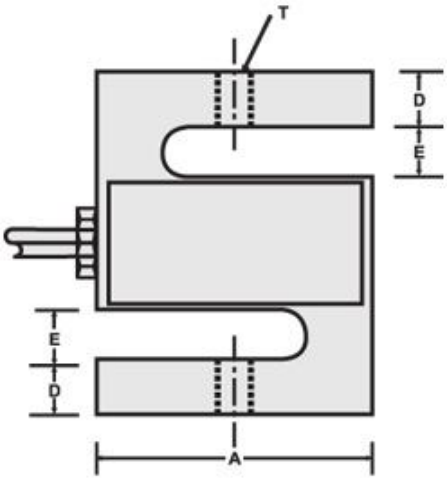
- 20 kgf to 01 TF. Capacities available.
- Stainless Steel 17 – 4 PH constructions for resistance against shock and overload.
- Complete Environmental Protection –Meets IP 67 class.
- Standardized output (3.0 ± 0.25%) available on request.
- Can be customized to suit customer's requirements.
- High Temperature version can be provided on request.

Applications

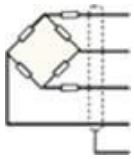
- Conversion of Mechanical Scale to Electronic.
- Tank, Hopper & Bag Weighing.
- Force Measurement, Tension & or Compression Dynamometer.
- Hanging & Crane Scale.
- Industrial Automation.
- Line tension measurement.
- Process & machine automations.
- Robotics.

Performance Specification

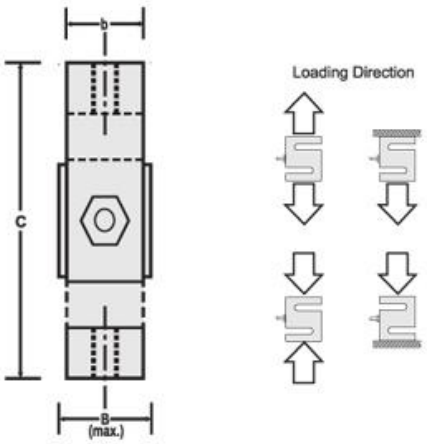
Standard Capacities kgf	20,30,50,75,100,150,200,250,300,500,750,1000
Excitation Voltage	10 VDC- Maximum 15 VDC
Nominal Output	3.0 m V/ V
Non - Linearity	< ±0.025% FSO (Full Scale Output)
Hysteresis	< ±0.02% FSO
Non-Repeatability	< ±0.01% FSO
Creep (30 minutes)	< ±0.03% FSO
Zero Balance	±1.0% FSO
Input Resistance	392 ± 15 Ohms
Output Resistance	350 ± 3 Ohms
Insulation Resistance (50 VDC)	> 1000 Mega Ohms
Safe Overload of Rated Capacity	150%
Ultimate Overload of Rated Capacity	250%
Allowable Side Load	50%
Temp. Compensated Range	0-60 ^{0}C
Temperature Effect on Output	< 0.0015% FSO/ ^{0}C
Temperature Effect on Zero	< 0.0020% FSO/ ^{0}C
Deflection	< 0.4 mm at FSO
Finish & Construction	Stainless Steel 17 – 4 PH
Environmental Protection Class	Meets IP 67



Electrical Termination



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



CAPACITY Kgf.	A	B (max)	b	C	T	D	E	Torque m. kg.	Cable Mtrs
20 to 100	50	20	12.5	62	M6 x 1.000	10	9	0.25	5
150 TO 1000	50	25	19	62	M12 x 1.25	10	9	0.50	5

NOTE: ALL DIMENSIONS ARE IN MM

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