

AST-221 "S" TYPE LOAD CELL



DESCRIPTION

AST-221 is a ultra high accuracy S-beam load cell suitable for both tension and compression modes.



APPLICATIONS

- Industrial Automation
- Universal Testing Applications
- Conversion of mechanical scale
- Tank, Bag weighing

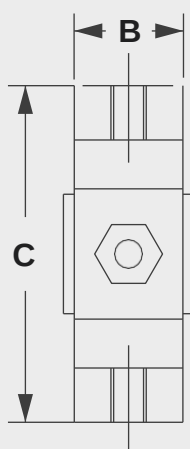
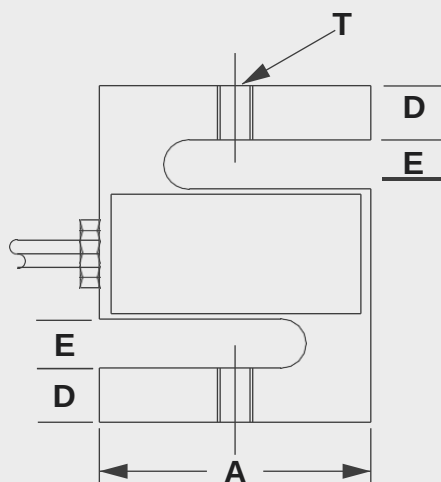


KEY FEATURES

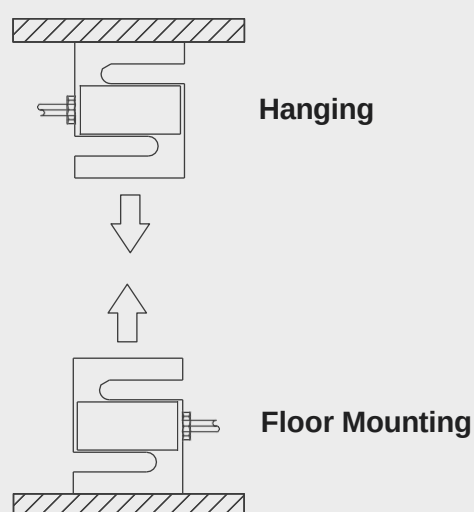
- Universal load capability
- Alloy Tool Steel construction
- Wide capacity range
- Highly precise

SPECIFICATIONS

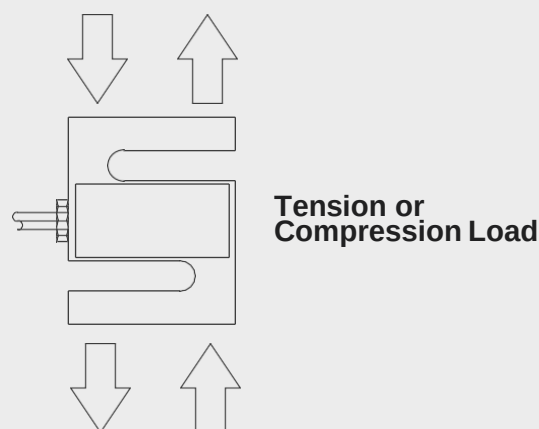
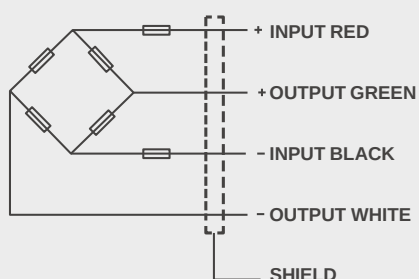
Rated capacity (Kgf.) (Tonf)	: 20, 50, 100, 200, 250, 300, 500, 750 : 1, 1.5, 2, 2.5, 3, 5, 7.5, 10
Excitation Voltage	: 3 VDC - 15 VDC
Rated Output	: 3.0 mV/V
Non – Linearity	: < ± 0.025 % FSO (Full scale Output)
Hysteresis	: < ± 0.02 % FSO
Non-Repeatability	: < ± 0.01 % FSO
Creep error (30 minutes)	: < ± 0.03 % FSO
Zero Load Output	: ± 1.0 % FSO
Input Resistance	: 390 ± 15 Ohms
Output Resistance	: 350 ± 5 Ohms
Insulation Resistance	: > 1000 Mega Ohms
Side Load Allowed	: 50 % of Rated Capacity
Safe Overload	: 150 % of Rated Capacity
Ultimate Overload	: 250 % of Rated Capacity
Temperature Compensated Range	: 0 to 60° C
Temperature Effect on Output	: < 0.0015 % FSO/° C
Temperature Effect on Zero	: < 0.002 % FSO/° C
Deflection	: < 0.5 mm at FSO
Tightening Torque	: Refer Table
Finish & Construction	: Electroless Nickel Plated Tool Steel
Environment Protection	: IP 67



LOADING DIRECTION



Electrical Termination



CAPACITY	A	B	C	D	E	THREAD T	TORQUE Kg-m	CABLE
20 to 100	50	12.5	62	10	9	M06 x 1.00	0.25	5
150 to 1000	50	19	62	10	9	M12 x 1.25	0.50	5
1500 to 3000	75	27	100	17	9	M20 x 1.50	2.00	5
5000 to 7500	90	32	140	25	9	M24 x 2.00	9.00	5
10000	115	45	175	40	13	M30 x 2.00	10.00	5

Note : All Dimensions are in mm



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