

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.)	:	20, 50, 100, 200, 250, 300, 500, 750
(Tonf)	:	1, 1.5, 2, 2.5, 3, 5, 7.5, 10
Excitation Voltage	:	10VDC-Maximum 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	:	0 to 60° C
Compensated Range	:	
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



ADI CONTROLS

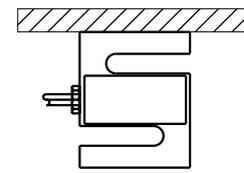
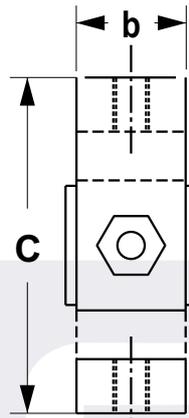
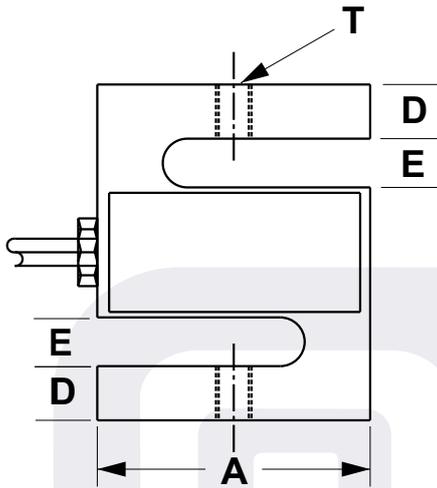
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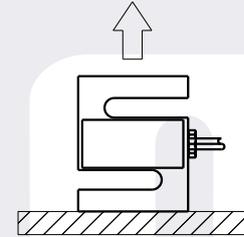
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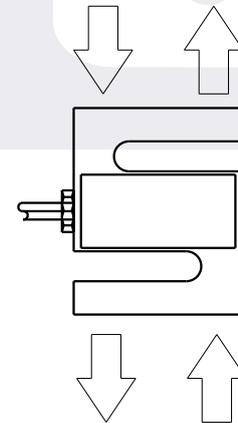
Loading Direction



Hanging

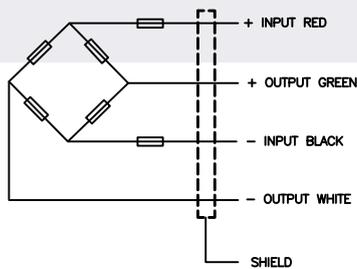


Floor Mounting



**Tension or
Compression Load**

Electrical Termination



CAPACITY	A	b	C	D	E	THREAD T	TORQUE Kg-m	CABLE Mtrs
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	10
10000	115	45	175	40	13	M30 x 2.00	10.00	20



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