

ASB-331

SHEAR BEAM LOAD CELL



DESCRIPTION :

ASB-331 is a high accuracy, low profile single ended shear beam load cell suitable for Tank & Hopper Weighing.

APPLICATIONS :

- Industrial Automation
- Tank, Hopper & Silo Weighing
- Floor & Pallet Scales

KEY FEATURES :

- Wide capacity range from 50 Kgf to 10 tonf
- Alloy Tool Steel construction
- Optionally Available for High Temperature Application

SPECIFICATIONS :

Rated capacity (Kgf.)	: 50, 100, 200, 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	: $< \pm 0.025 \% \text{ FSO}$ (Full scale Output)
Hysteresis	: $< \pm 0.02 \% \text{ FSO}$
Non-Repeatability	: $< \pm 0.01 \% \text{ FSO}$
Creep error (30 minutes)	: $< \pm 0.03 \% \text{ FSO}$
Zero Load Output	: $\pm 1.0 \% \text{ FSO}$
Input Resistance	: $390 \pm 15 \text{ Ohms}$
Output Resistance	: $350 \pm 5 \text{ Ohms}$
Insulation Resistance	: $> 1000 \text{ Mega Ohms}$
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	: $< 0.0015 \% \text{ FSO}/^{\circ} \text{C}$
Temperature Effect on Zero	: $< 0.002 \% \text{ FSO}/^{\circ} \text{C}$
Deflection	: $< 0.5 \text{ mm at FSO}$
Tightening Torque	: Refer Table.
Finish & Construction	: Electroless Nickel Plated Tool Steel. Stainless Steel available optionally.
Environment Protection	: IP 67



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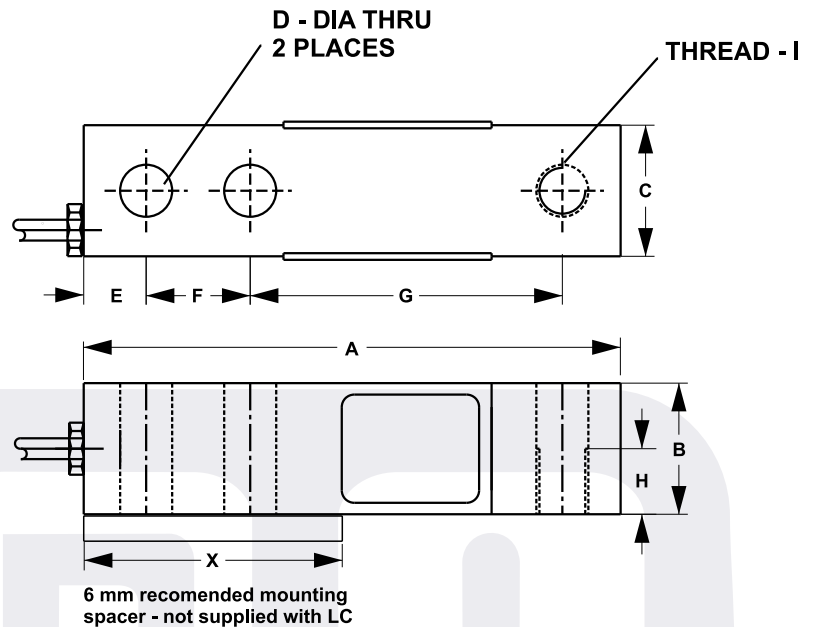
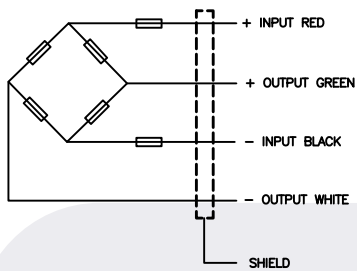
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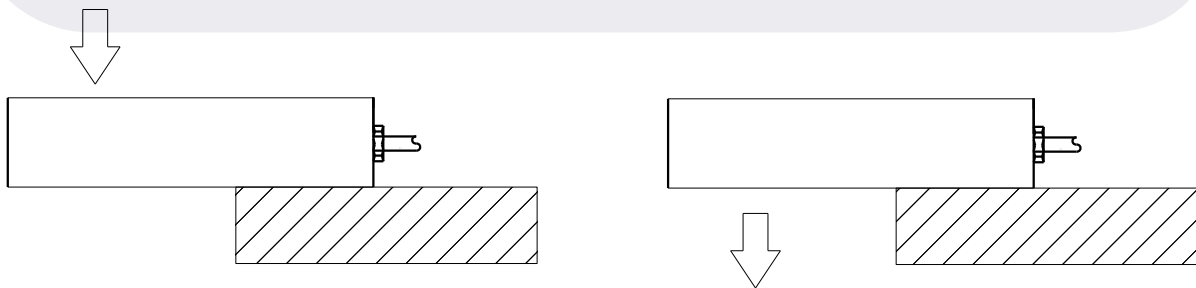
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Electrical Termination



Loading Direction



CAPACITY	A	B	C	D	E	F	G	H	THREAD I	X	TORQUE Kg-m	CABLE
50Kgf to 2Tf	130	32	32	13	15	25	75	15	M12 X 1.25	55	2.5	5 Mtrs.
3 Tf, 5 Tf	172	38	38	21	19	38	95	19	M20 X 1.50	76	5	10 Mtrs.
7.5Tf, 10Tf	223	50	50	25	25	50	120	25	M24 X 2.00	100	10	10 Mtrs.



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