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AD2.5D-100 SPECIFICATIONS

The AD2.5D is a compact and customizable six-axis force transducer with a side connector and threaded inserts on its top and bottom surfaces. The body of the transducer is manufactured from high strength aluminum with an anodized finish. A waterproof version the SPC2.5D or SPI2.5D is available for use in tow tanks, ocean engineering, and other underwater applications.



Units: Capacity:

Dimensions(LxDia.)	2.5 x 2.5 in		
Weight	1 lb.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Body Material	Aluminum	Analog outputs	6 Channels
Temperature range	0 to 125°F	Digital outputs	None
Excitation	10V maximum	Crosstalk	< 2% on all channels
Fx, Fy, Fz hysteresis	± 0.2% full scale output	Fx, Fy, Fz non-linearity	± 0.2% full scale output

Channel	Fx	Fy	Fz	Units	Mx	My	Mz	Units
Capacity	50	50	100	lb	100	100	50	in-lb
Sensitivity	24	24	6	µv/v-lb	30	30	24	µv/v-in-lb
Natural frequency	-	-	-	Hz	300	-	-	Hz
Stiffness (X 105)	0.1	0.1	1.7	lb/in	-	-	0.2	in-lb/rad

Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

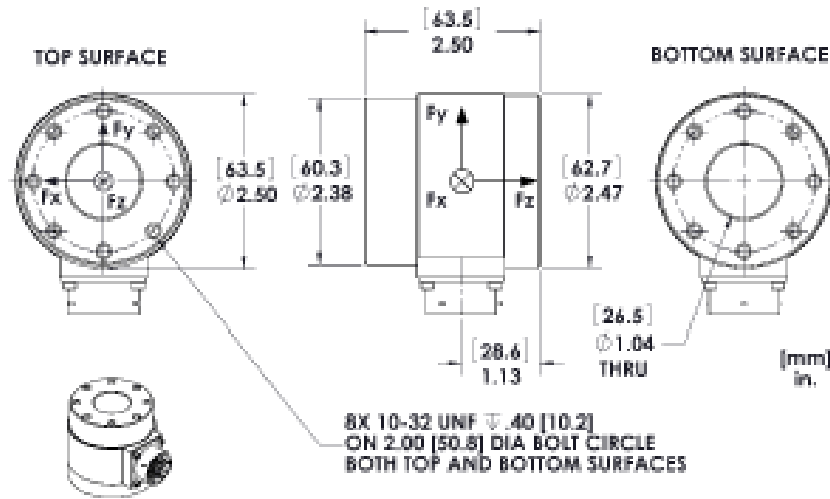
Notes: The listed natural frequency is the lowest natural frequency for the force sensor and will dominate.

Published specifications subject to change without notice.

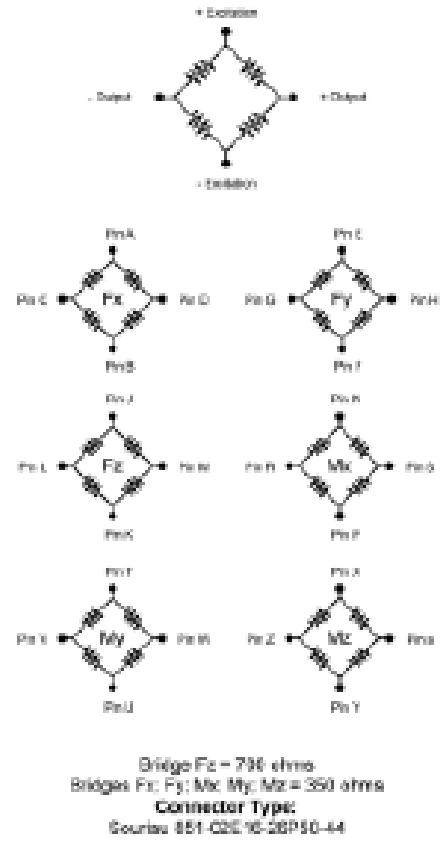
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TECHNICAL DRAWINGS

Footprint Drawing



Electrical Drawing



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