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AD2.5D-1000 SPECIFICATIONS

The AD2.5D is a compact six-axis force transducer with a side connector and threaded attachment points 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: Metric ▼ Capacity: 4448 N ▼

Channel	Fx	Fy	Fz	Units	Mx	Му	Mz	Units		
Fx, Fy, Fz hysteresis	± 0.2% full scale output Fx, Fy, Fz non-linearity				rity	± 0.2% full scale output				
Excitation	10V maximum Crosstalk	10V maximum			Crosstalk			< 2% on all channels		
Temperature range	-17.	.78 to 51.67	°C	Digital outputs			None	None		
Body Material	Alu	minum		Analo	g outputs		6 Channe	6 Channels		
Channels	Fx, I	Fy, Fz, Mx, N	ly, Mz	Ampl	ifier		Required			
Weight	0.45	55 Kg.		Sensii	ng elements		Strain ga	ge bridge		
Dimensions(LxDia.)	63.5	5 x 63.5 mm								

Channel	Fx	Fy	Fz	Units	Mx	Му	Mz	Units	
Capacity	2223	2223	4446	Ν	113	113	56	N-m	
Sensitivity	0.54	0.54	0.135	μν/ν-Ν	26.58	26.58	21.26	μv/v-N-m	
Natural frequency	-	-	-	Hz	1000	-	-	Hz	
Stiffness (X 105)	175	175	2979	N/m	-	-	0.226	N-m/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.

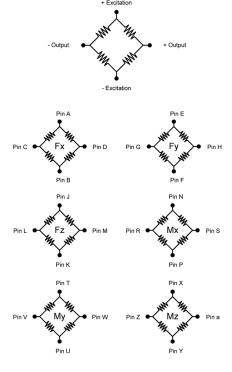
Last modified: 2016-08-23

TECHNICAL DRAWINGS

Footprint Drawing

[63.5] 2.50 **BOTTOM SURFACE TOP SURFACE** Fy ▲ [60.3] [63.5] 62.7 Fz \emptyset 2.38 Ø2.50 \emptyset 2.47 26.5 Ø1.04 28.6 [mm] in. THRU 1.13 8X 10-32 UNF $\overline{\psi}$.40 [10.2] ON 2.00 [50.8] DIA BOLT CIRCLE BOTH TOP AND BOTTOM SURFACES

Electrical Drawing



Bridge Fz = 700 ohms Bridges Fx; Fy; Mx; My; Mz = 350 ohms Connector Type: Souriau 851-02E16-26P50-44

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