AMTI FORCE AND MOTION
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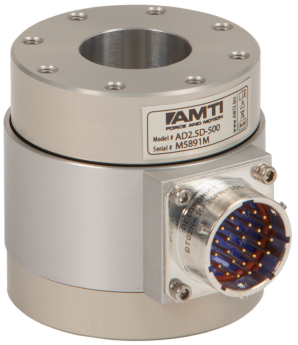
AD2.5D-250 SPECIFICATIONS

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: 1112 N ▼

Dimensions(LxDia.)	63.5 x 63.5 mm		
Weight	0.455 Kg.	**Sensing elements**	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	**Amplifier**	Required
Body Material	Aluminum	**Analog outputs**	6 Channels
Temperature range	-17.78 to 51.67°C	**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	556	556	1112	N	28	28	14	N-m
Sensitivity	2.16	2.16	0.54	µv/v-N	106.3	106.3	85.06	µv/v-N-m
Natural frequency	-	-	-	Hz	500	-	-	Hz
Stiffness (X 105)	43.81	43.81	745	N/m	-	-	0.0564	N-m/rad

Resolution — *To determine the resolution of your system, please use our Output Calculator.*

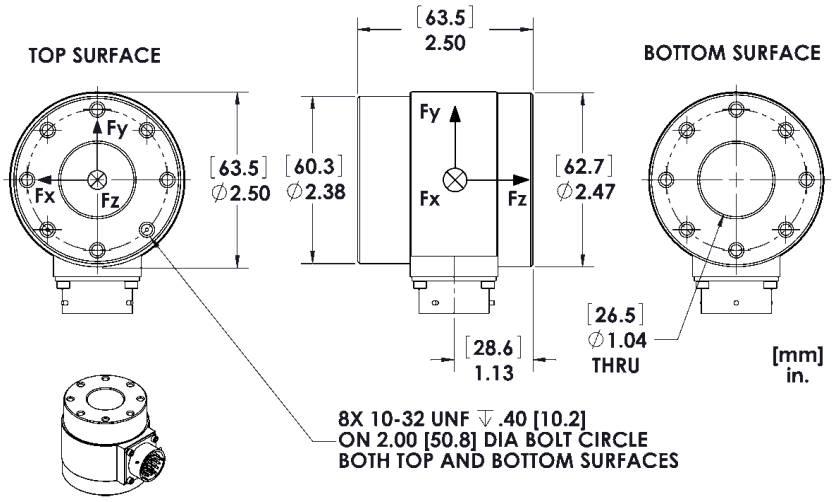
Notes: The listed natural frequency is the lowest natural frequency for the force sensor and will dominate.

Published specifications subject to change without notice.

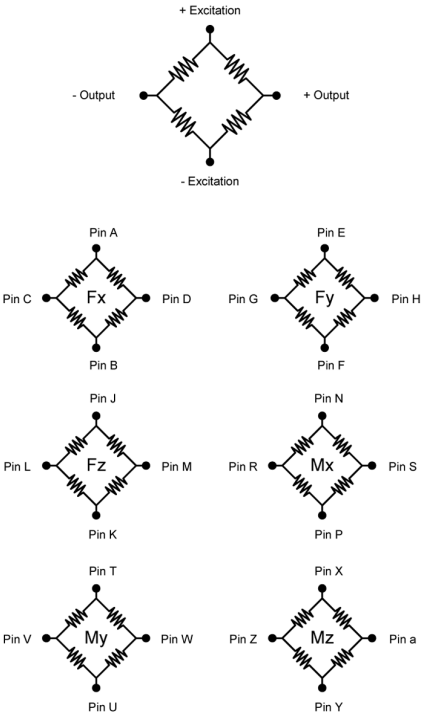
Last modified:2016-08-23

TECHNICAL DRAWINGS

Footprint Drawing



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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