

# AD2.5D-500 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.



Units:  Capacity:

<b>Dimensions(LxDia)</b>	63.5 x 63.5 mm	<b>IP Rating</b>	IP50
<b>Weight</b>	0.455 Kg.	<b>Sensing elements</b>	Strain gage bridge
<b>Channels</b>	Fx, Fy, Fz, Mx, My, Mz	<b>Amplifier</b>	Required
<b>Body Material</b>	Aluminum	<b>Analog outputs</b>	6 Channels
<b>Temperature range</b>	-17.78 to 51.67°C	<b>Digital outputs</b>	None
<b>Excitation</b>	10V maximum	<b>Crosstalk</b>	< 2% on all channels
<b>Fx, Fy, Fz hysteresis</b>	± 0.2% full scale output	<b>Fx, Fy, Fz non-linearity</b>	± 0.2% full scale output

Channel	Fx	Fy	Fz	Units	Mx	My	Mz	Units
Capacity	1112	1112	2223	N	56	56	28	N-m
Sensitivity	1.08	1.08	0.27	µv/v-N	53.16	53.16	42.53	µv/v-N-m
Natural frequency	-	-	-	Hz	700	-	-	Hz
Stiffness (X 105)	87.63	87.63	1490	N/m	-	-	0.113	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

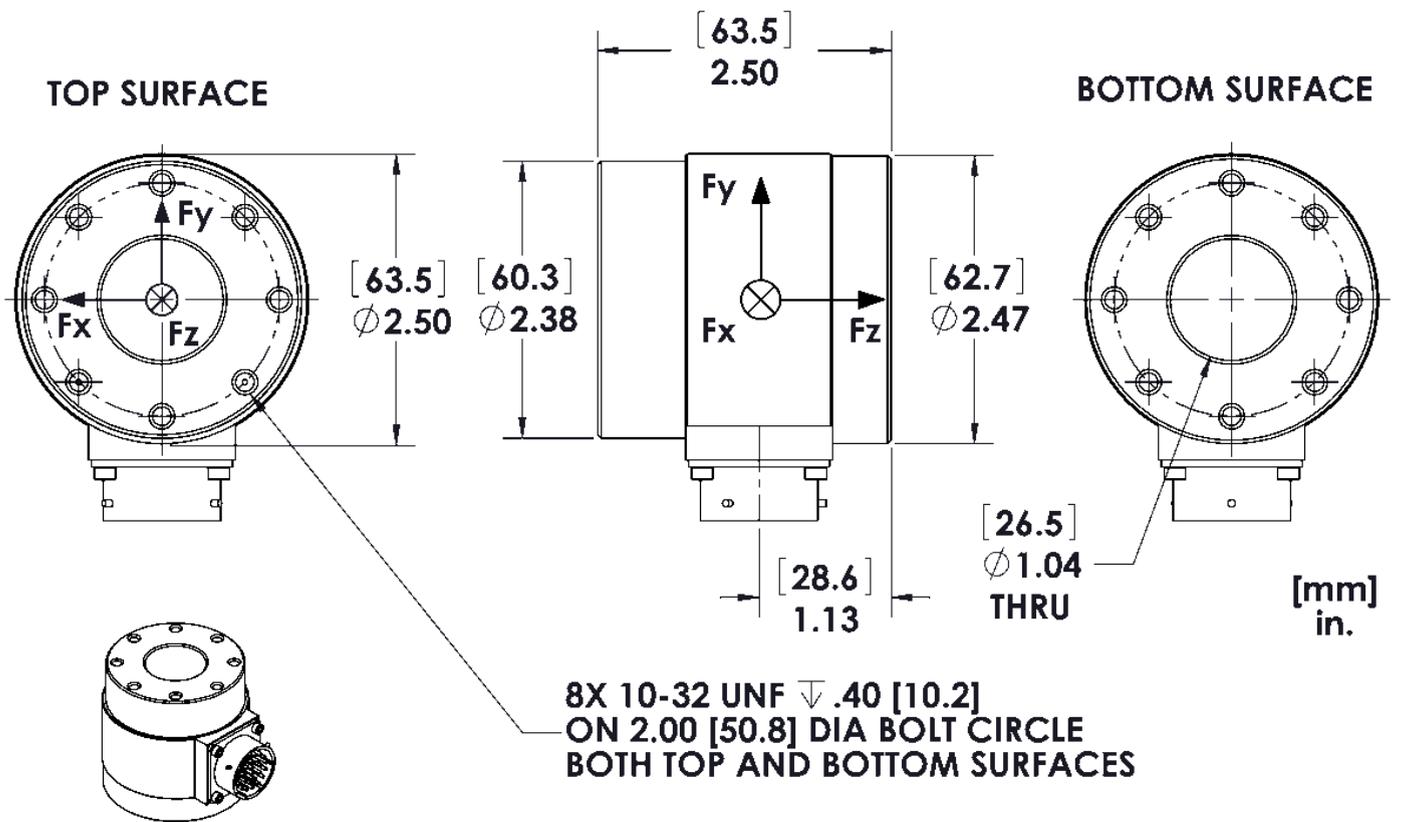
## TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)

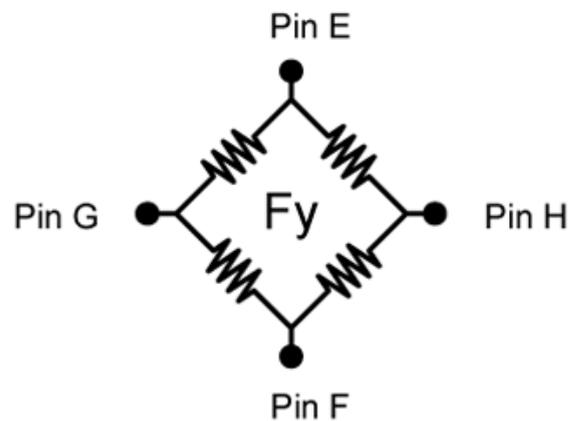
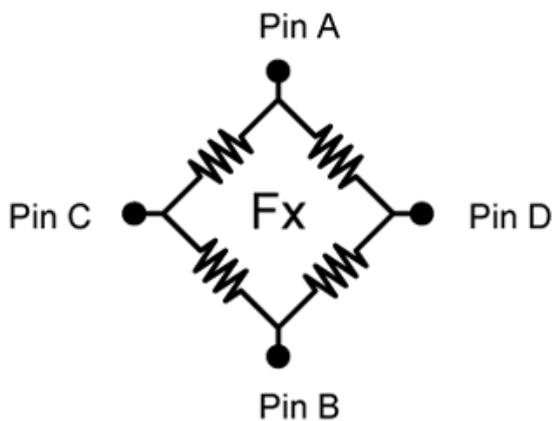
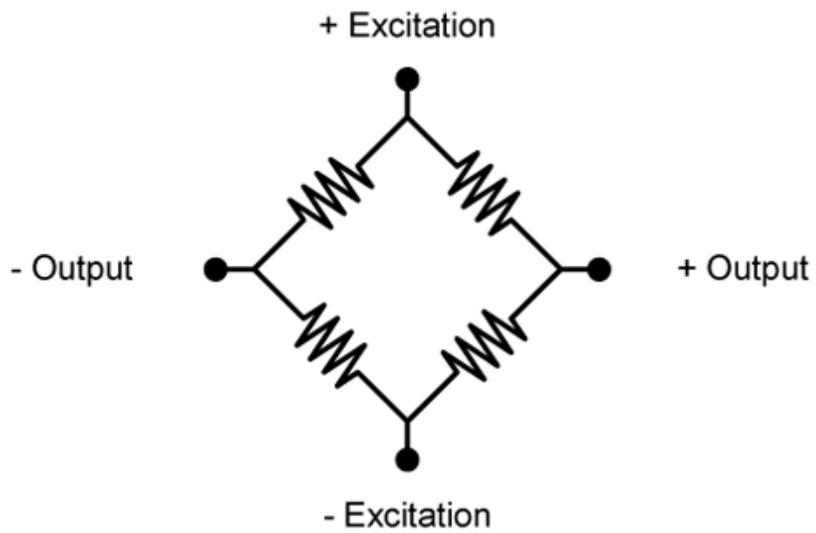
Electrical Drawing (click on image to enlarge)

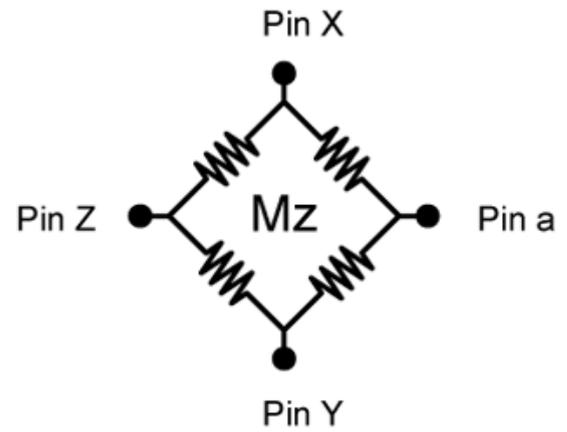
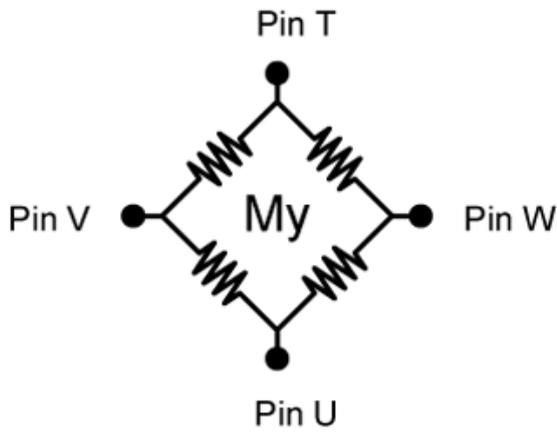
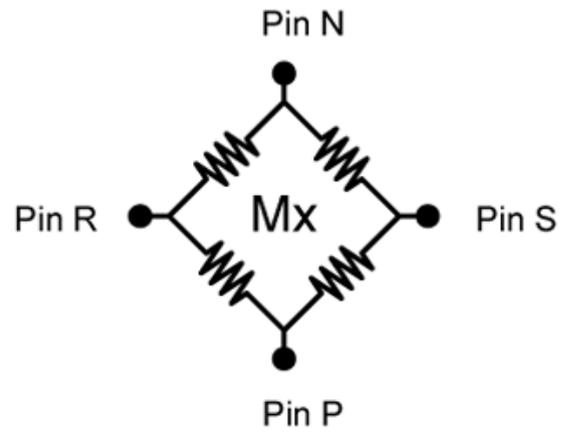
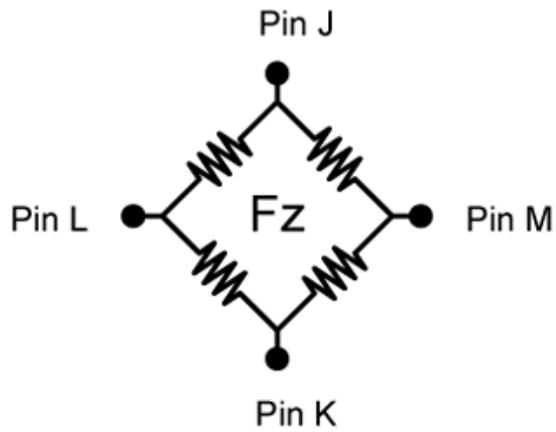
TECHNICAL DRAWING

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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