

# 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.



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          | 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

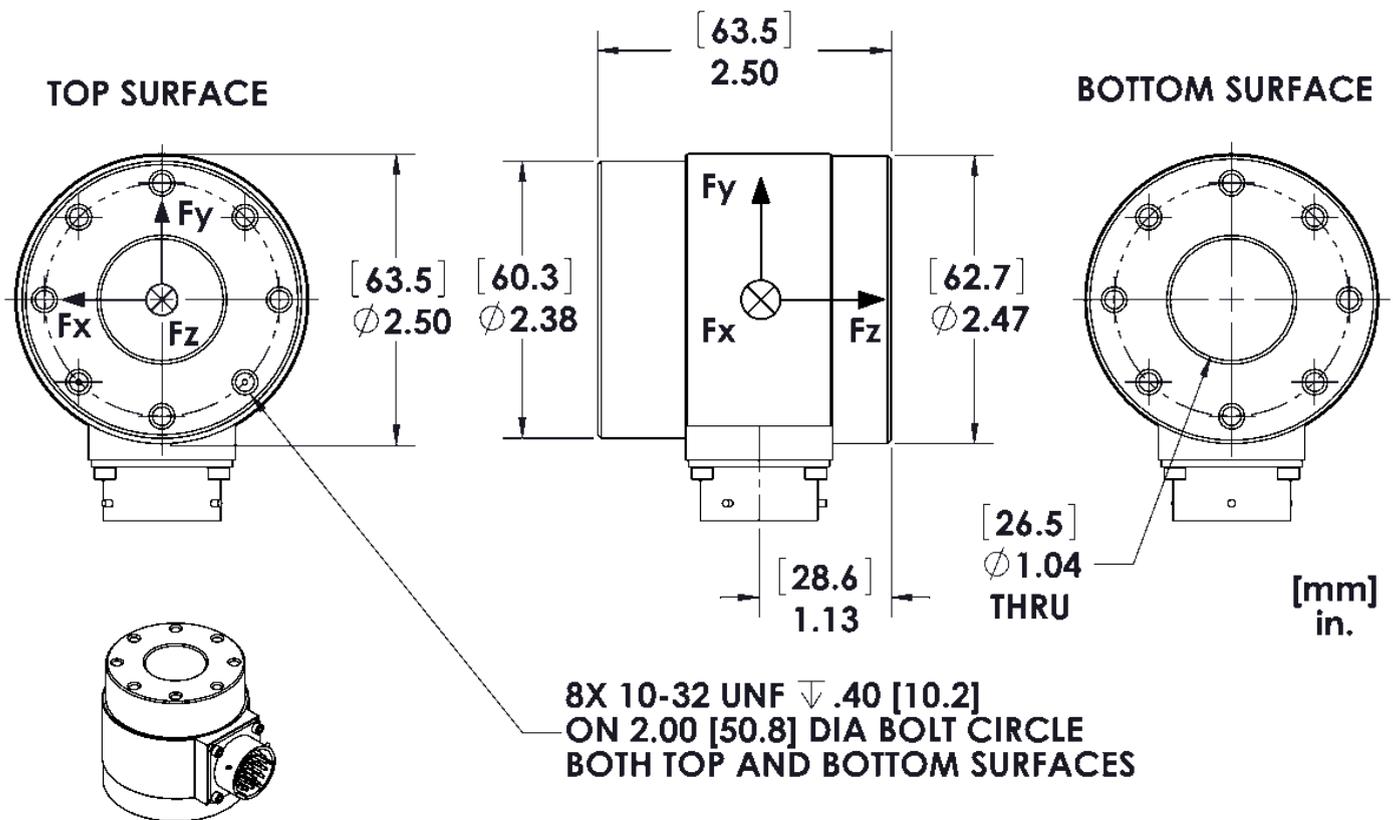
## TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)

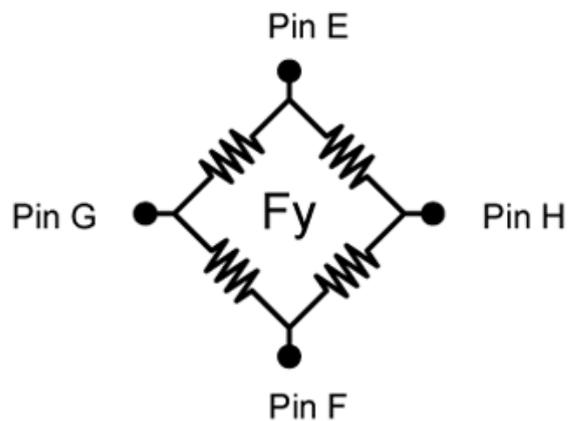
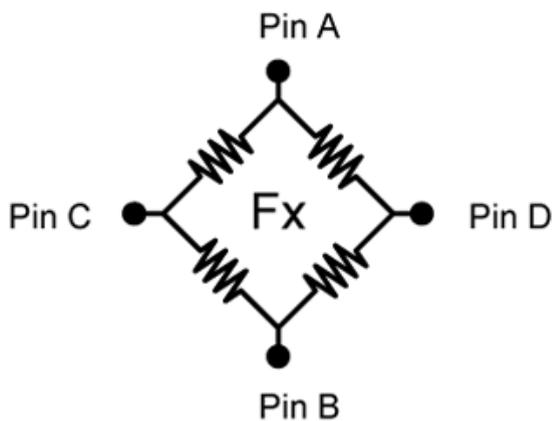
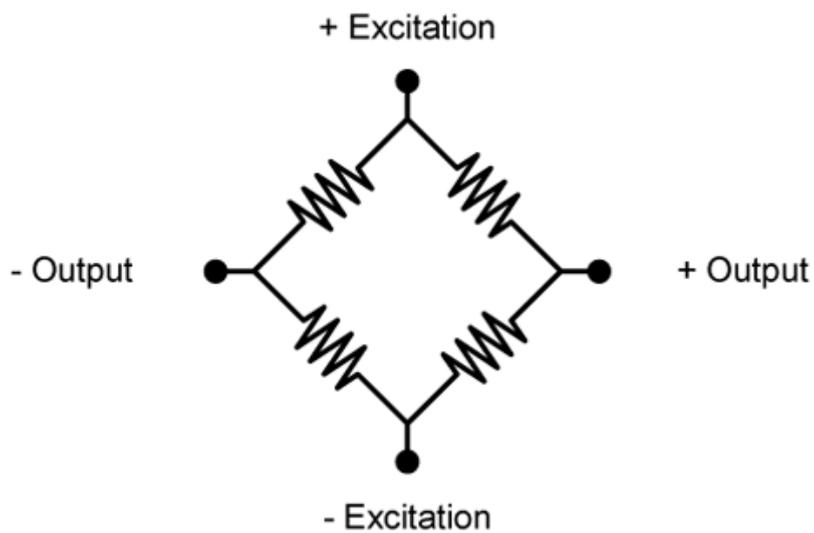
Electrical Drawing (click on image to enlarge)

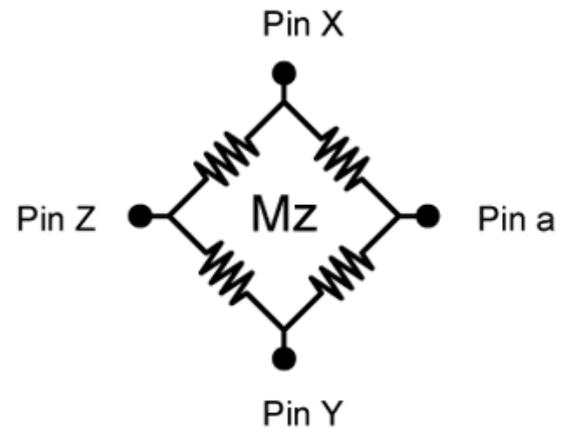
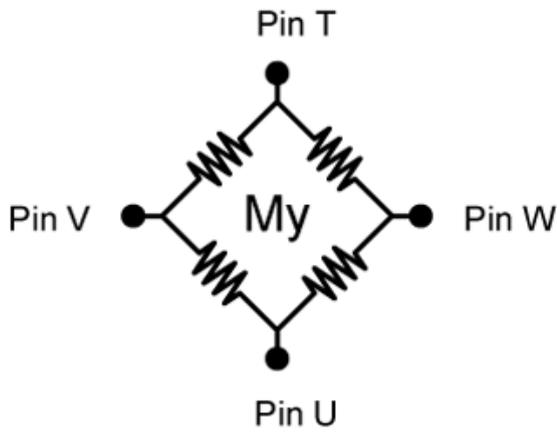
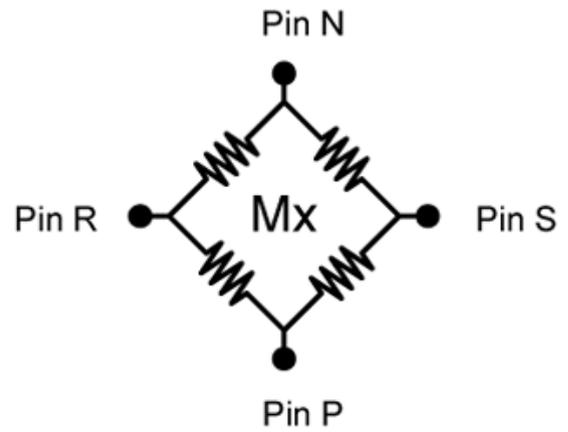
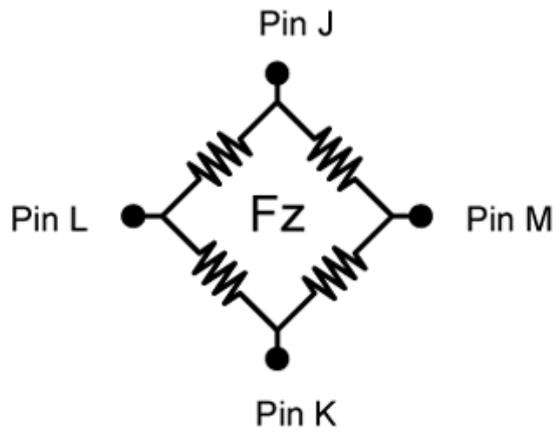
TECHNICAL DRAWING

Footprint Drawing



Electrical Drawing





Bridge Fz = 700 ohms  
 Bridges Fx; Fy; Mx; My; Mz = 350 ohms

**Connector Type:**

**Souriau 851-02E16-26P50-44**