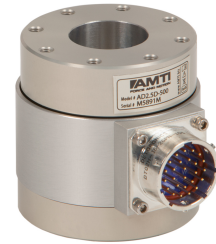


AD2.5D-100 SPECIFICATIONS

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:

| | | | |
|------------------------------|--------------------------|---------------------------------|--------------------------|
| Dimensions(LxDia) | 63.5 x 63.5 mm | IP Rating | IP50 |
| 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 | 222 | 222 | 445 | N | 11 | 11 | 5.6 | N-m |
| Sensitivity | 5.4 | 5.4 | 1.35 | µv/v-N | 266 | 266 | 213 | µv/v-N-m |
| Natural frequency | - | - | - | Hz | 300 | 300 | - | Hz |
| Stiffness (X 105) | 17.53 | 17.53 | 298 | N/m | - | - | 0.0226 | 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)

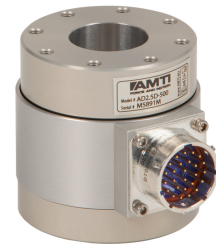
Electrical Drawing (click on image to enlarge)

TECHNICAL DRAWING

Footprint Drawing

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:

| | | | |
|------------------------------|--------------------------|---------------------------------|--------------------------|
| Dimensions(LxDia) | 63.5 x 63.5 mm | IP Rating | IP50 |
| 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 (click on image to enlarge)

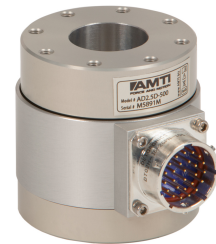
Electrical Drawing (click on image to enlarge)

TECHNICAL DRAWING

Footprint Drawing

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:

| | | | |
|------------------------------|--------------------------|---------------------------------|--------------------------|
| Dimensions(LxDia) | 63.5 x 63.5 mm | IP Rating | IP50 |
| 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 | 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)

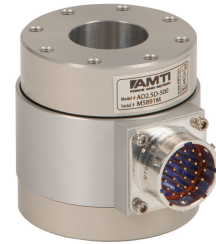
Electrical Drawing (click on image to enlarge)

TECHNICAL DRAWING

Footprint Drawing

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.



Units: Capacity:

| | | | |
|------------------------------|--------------------------|---------------------------------|--------------------------|
| Dimensions(LxDia) | 63.5 x 63.5 mm | IP Rating | IP50 |
| 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 | 2223 | 2223 | 4446 | N | 113 | 113 | 56 | N-m |
| Sensitivity | 0.54 | 0.54 | 0.135 | µv/v-N | 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

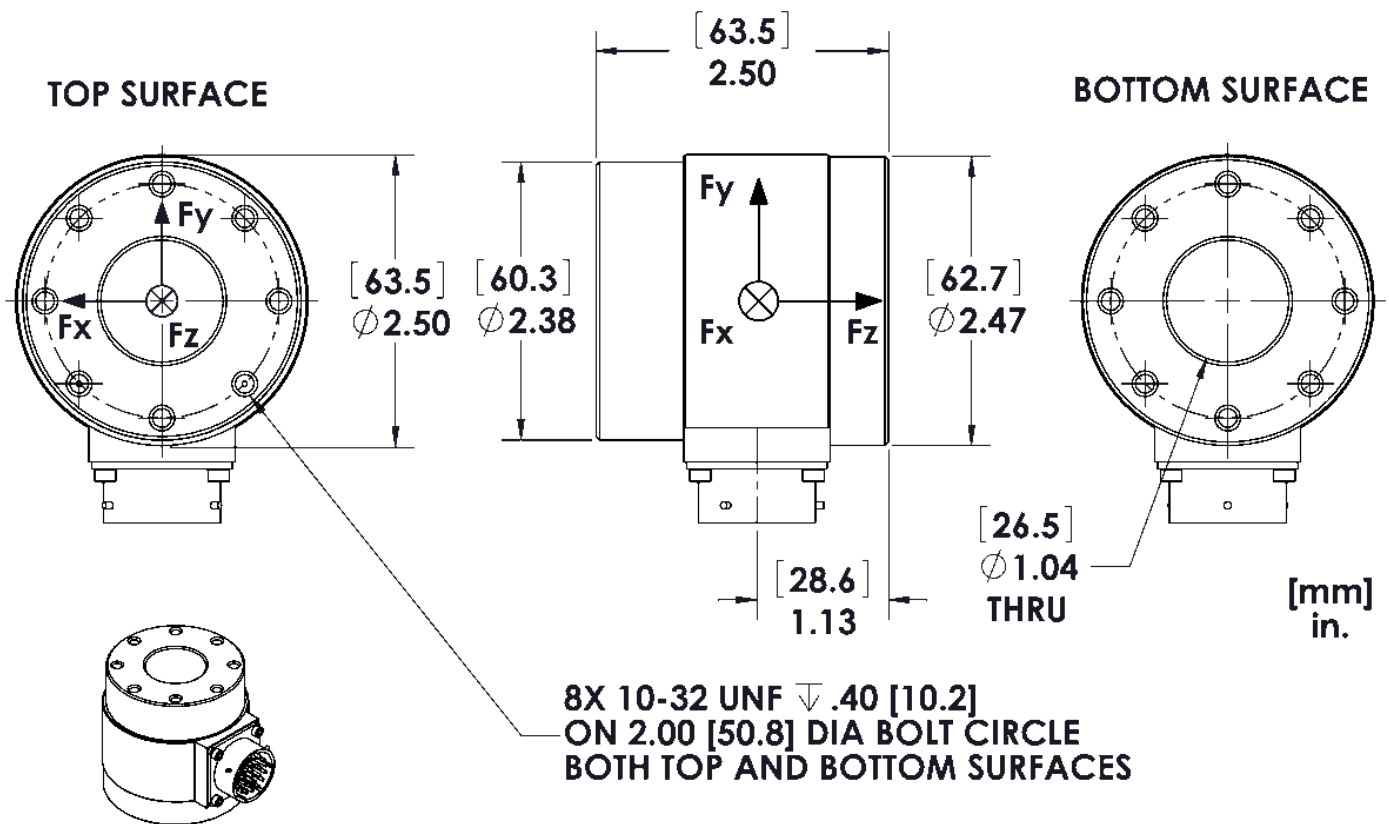
TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)

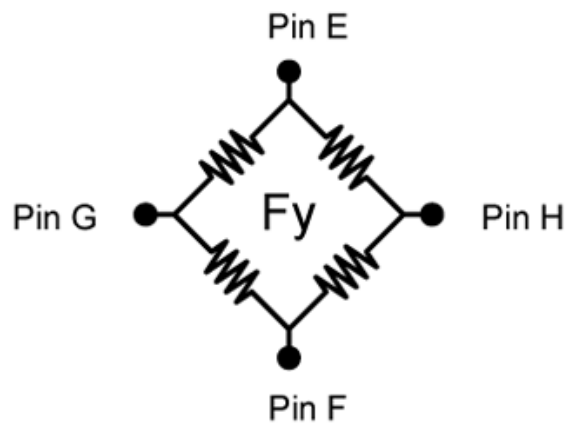
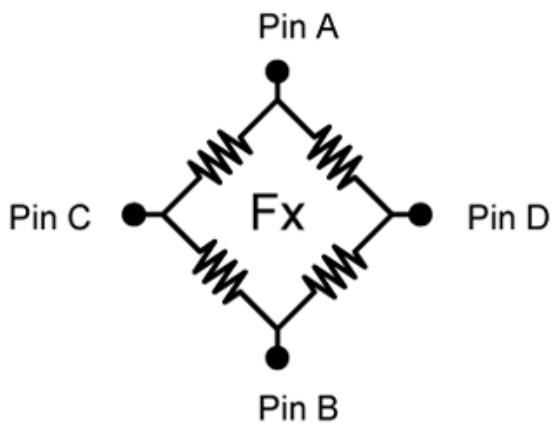
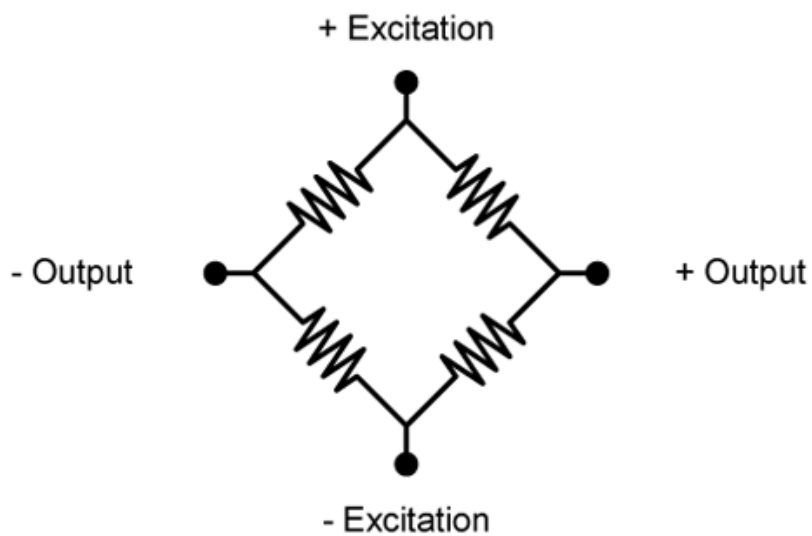
Electrical Drawing (click on image to enlarge)

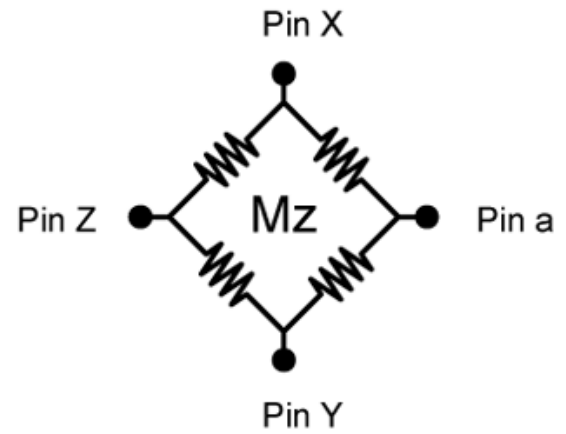
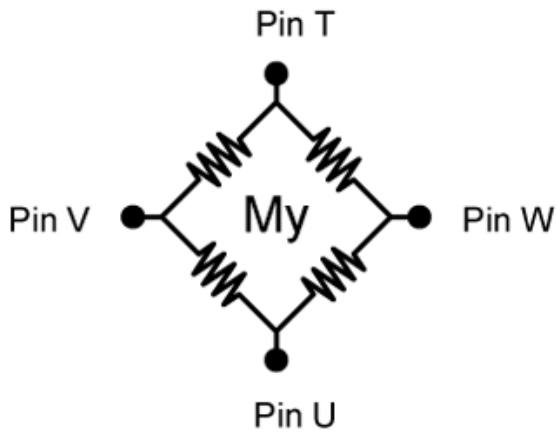
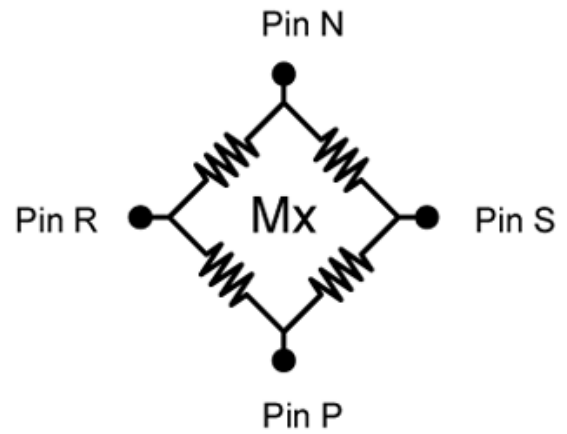
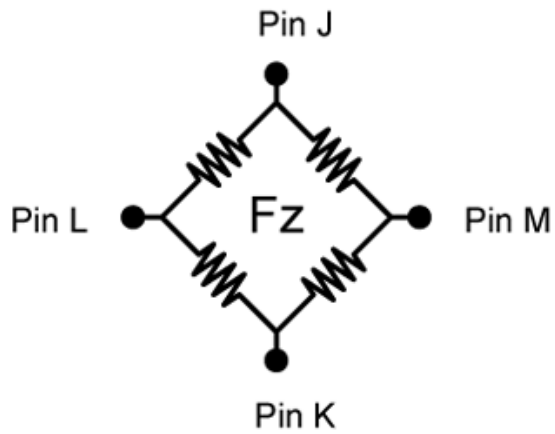
TECHNICAL DRAWING

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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