

FS6-100 SPECIFICATIONS

The FS6 is a versatile force transducer, offering accurate measurement of forces and moments in one of our most compact sensor designs.



Dimensions(LxDia.)	63.5 x 37.85 mm		
Weight	0.1 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate material	Aluminum	Analog outputs	Six 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-lb	266	266	213	µv/v-in-lb
Natural frequency	-	-	-	Hz	-	-	-	Hz
Stiffness (X 10 ⁵)	21.04	21.04	298	N/m	-	-	0.0226	N-m/rad

Resolution To determine the resolution of your system, please use our [Output Calculator](#).

Published specifications subject to change without notice.

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TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)

BASE SURFACE

TOP SURFACE

CABLE

DIMPLE INDICATES "Y" AXIS

4X 6-32 UNF-28 .31

4X 6-32 UNF-28 .31

[20.3] Ø.80 BOLT CIRCLE

[20.3] Ø.80 BOLT CIRCLE

[63.4] 2.50

[37.8] 1.49

Fx, Fy, Fz

Electrical Drawing (click on image to enlarge)

Excitation

Output

Pin A, Pin B, Pin C, Pin D, Pin E, Pin F, Pin G, Pin H, Pin I, Pin J, Pin K, Pin L, Pin M, Pin N, Pin O, Pin P, Pin Q, Pin R, Pin S, Pin T, Pin U, Pin V, Pin W, Pin X, Pin Y, Pin Z

Bridge Fz = 700 ohms

Bridges Fx, Fy, Mx, My, Mz = 350 ohms

Connector Type: Souriau 851-02E16-26P50-44

FS6-250 SPECIFICATIONS

Units: Metric Capacity: 250

Dimensions(LxDia.)	63.5 x 37.85 mm		
Weight	0.1 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate material	Aluminum	Analog outputs	Six 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	2.7	2.7	0.674	μv/v-lb	132.8	132.8	106.3	μv/v-in-lb
Natural frequency	-	-	-	Hz	-	-	-	Hz
Stiffness (X 10 ⁵)	52.6	52.6	745	N/m	-	-	0.0452	N-m/rad

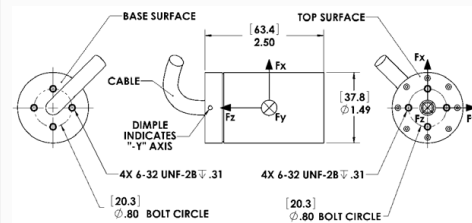
Resolution To determine the resolution of your system, please use our [Output Calculator](#).

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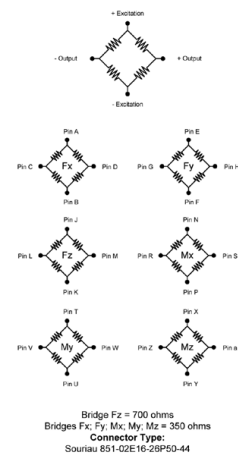
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TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



FS6-500 SPECIFICATIONS

Units: Metric Capacity: 500

Dimensions(LxDia.)	63.5 x 37.85 mm		
Weight	0.1 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate material	Aluminum	Analog outputs	Six 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	2224	N	56	56	28	N-m
Sensitivity	1.35	1.35	0.337	µv/v-lb	66.42	66.42	53.14	µv/v-in-lb
Natural frequency	-	-	-	Hz	-	-	-	Hz
Stiffness (X 10 ⁵)	105.2	105.2	1490	N/m	-	-	0.0904	N-m/rad

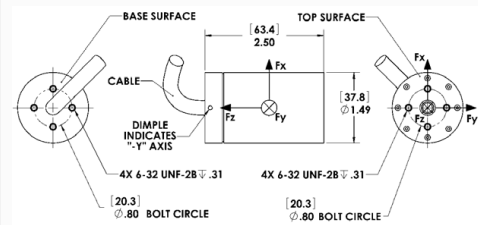
Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

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TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)

