

# MC818-1000 SPECIFICATIONS

The MC818 is a rectangular, six-axis transducer with threaded inserts in its top surface and a flanged base for t-slot mounting, making it an ideal sensor for the manufacturing and machining measurements.



Units: Metric      Capacity: 1000

Dimensions (WxLxH)	203 x 559 x 79.25 mm		
Weight	20.45 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate 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	2224	2224	4448	N	452	903	508	N-m
Sensitivity	0.674	0.674	0.171	µv/v-lb	1.24	3.54	4.96	µv/v-in-lb
Natural frequency	400	400	400	Hz	-	-	-	Hz
Stiffness (X 10 <sup>5</sup> )	210	210	877	N/m	-	-	-	N-m/rad

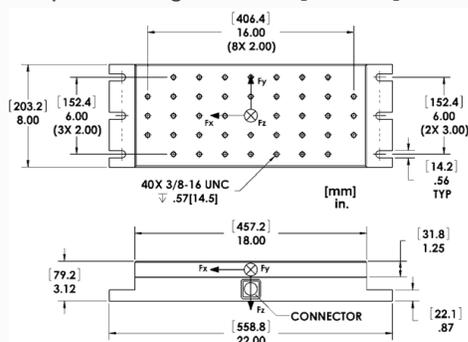
Resolution      *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

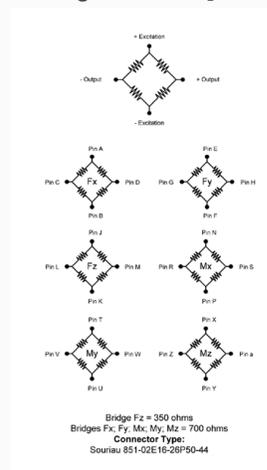
Last modified:10/22/201

## TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



## MC818-2000 SPECIFICATIONS

The MC818 is a rectangular, six-axis transducer with threaded inserts in its top surface and a flanged base for t-slot mounting, making it an ideal sensor for the manufacturing and machining measurements.



Units: Metric      Capacity: 2000

Dimensions (WxLxH)	203 x 559 x 79.25 mm		
Weight	20.45 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate 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	4448	4448	8896	N	903	1807	1016	N-m
Sensitivity	0.337	0.337	0.0854	µv/v-lb	0.62	1.77	2.48	µv/v-in-lb
Natural frequency	560	560	400	Hz	-	-	-	Hz
Stiffness (X 10 <sup>5</sup> )	421	421	1753	N/m	-	-	-	N-m/rad

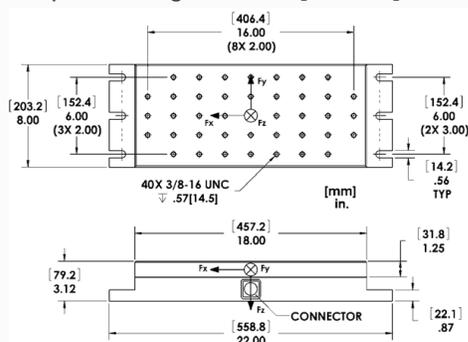
Resolution      *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

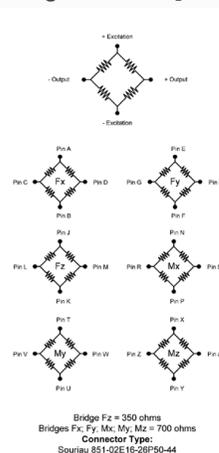
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### TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



## MC818-4000 SPECIFICATIONS

The MC818 is a rectangular, six-axis transducer with threaded inserts in its top surface and a flanged base for t-slot mounting, making it an ideal sensor for the manufacturing and machining measurements.



Units: Metric      Capacity: 4000

Dimensions (WxLxH)	203 x 559 x 79.25 mm		
Weight	20.45 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate 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	8896	8896	17793	N	1807	3613	2033	N-m
Sensitivity	0.169	0.169	0.0427	µv/v-lb	0.31	0.886	1.24	µv/v-in-lb
Natural frequency	800	800	400	Hz	-	-	-	Hz
Stiffness (X 10 <sup>5</sup> )	842	842	3507	N/m	-	-	-	N-m/rad

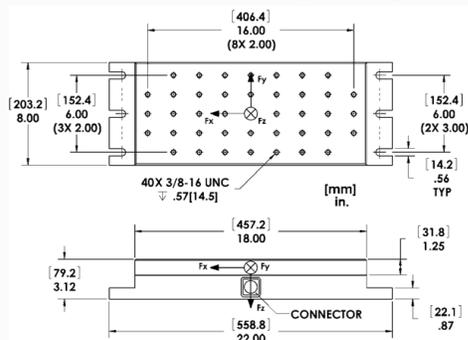
Resolution      *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

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### TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)

