

MC12-1000 SPECIFICATIONS

The MC12 is a 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)	305 x 406 x 78.74 mm		
Weight	22.73 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	678	678	339	N-m
Sensitivity	0.674	0.674	0.171	µv/v-lb	2.48	2.48	5.84	µv/v-in-lb
Natural frequency	450	450	880	Hz	-	-	-	Hz
Stiffness (X 10 ⁵)	210	210	1403	N/m	-	-	-	N-m/rad

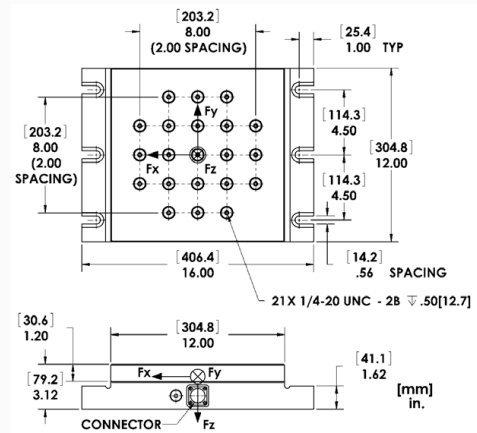
Resolution To determine the resolution of your system, please use our [Output Calculator](#).

Published specifications subject to change without notice.

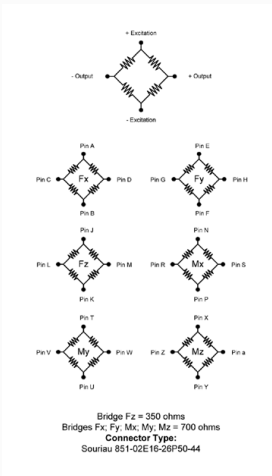
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TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



MC12-2000 SPECIFICATIONS

The MC12 is a 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)	305 x 406 x 78.74 mm		
Weight	22.73 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	1355	1355	678	N-m
Sensitivity	0.337	0.337	0.0854	µv/v-lb	1.24	1.24	2.92	µv/v-in-lb
Natural frequency	580	580	1100	Hz	-	-	-	Hz
Stiffness (X 10 ⁵)	421	421	2805	N/m	-	-	-	N-m/rad

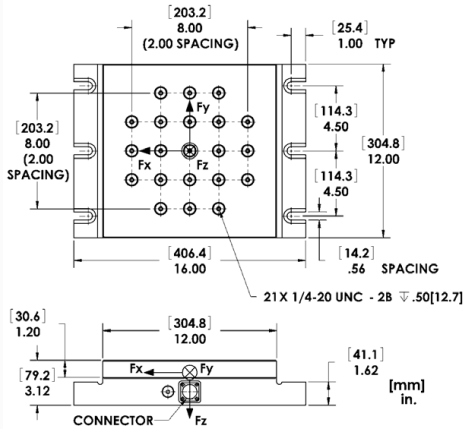
Resolution *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

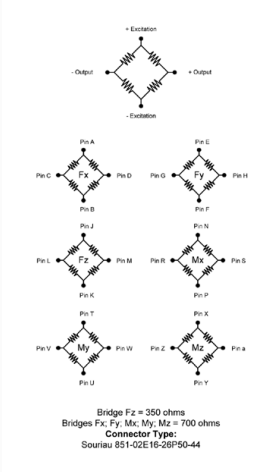
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TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



MC12-4000 SPECIFICATIONS

The MC12 is a 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)	305 x 406 x 78.74 mm		
Weight	22.73 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	2710	2710	1355	N-m
Sensitivity	0.169	0.169	0.0427	µv/v-lb	0.62	0.62	1.46	µv/v-in-lb
Natural frequency	750	750	1400	Hz	-	-	-	Hz
Stiffness (X 10 ⁵)	842	842	5611	N/m	-	-	-	N-m/rad

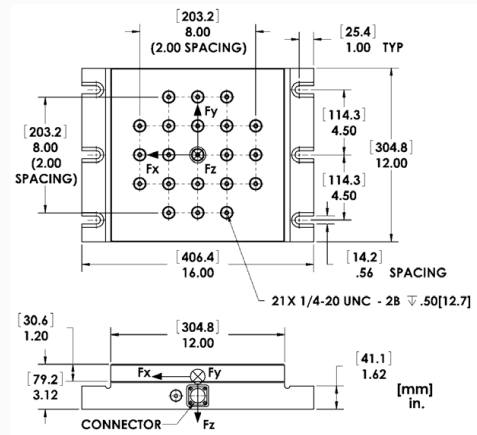
Resolution To determine the resolution of your system, please use our [Output Calculator](#).

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)

