

## **MC6-1000 SPECIFICATIONS**

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The MC6 is a six-axis transducer with threaded inserts in its top surface and a flanged base for t-slot mounting. A high-strength aluminum alloy (7075-T6) is used throughout to withstand harsh manufacturing and testing environments. A durable anodized finish protects the exterior from corrosion while elastomeric 0-ring seals protect the strain gages and wiring. Internal potting of the strain gages further insures long life and consistent, reliable performance.

▼ Capacity: 4448 N



Dimensions(WxLxH) IP60 152 x 152 x 84.07 mm **IP Rating** Weight **Sensing elements** 5.91 Kg. Strain gage bridge Channels Amplifier Required Fx, Fy, Fz, Mx, My, Mz **Body Material** Aluminum Analog outputs 6 Channels -17.78 to 51.67°C **Digital outputs** Temperature range None Excitation 10V maximum Crosstalk < 2% on all channels Fx, Fy, Fz hysteresis Fx, Fy, Fz non-linearity ± 0.2% full scale output ± 0.2% full scale output Channel Fx Fy Fz Units Мχ Mz Units My Capacity 2224 2224 4448 Ν 339 339 169 N-m Sensitivity 0.674 0.674 0.171 µv/v-N 6.2 6.2 13.28 µv/v-N-m Natural frequency 550 550 620 Ηz Hz \_ Stiffness (X 105) 210 210 1403 N/m N-m/rad

Resolution

Units: Metric

To determine the resolution of your system, please use our Output Calculator.

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



## **MC6-2000 SPECIFICATIONS**

The MC6 is a six-axis transducer with threaded inserts in its top surface and a flanged base for t-slot mounting. A high-strength aluminum alloy (7075-T6) is used throughout to withstand harsh manufacturing and testing environments. A durable anodized finish protects the exterior from corrosion while elastomeric 0-ring seals protect the strain gages and wiring. Internal potting of the strain gages further insures long life and consistent, reliable performance.

▼ Capacity: 8896 N ▼



Dimensions(WxLxH)	152 x 152 x 84.07 mm IP Rating				IP60				
Weight	5.91 Kg.			Sensing elements Amplifier Analog outputs Digital outputs Crosstalk			Strain gage bridge Required 6 Channels None < 2% on all channels		
Channels	Fx, Fy, Fz, Mx, My, Mz								
Body Material	Aluminum -17.78 to 51.67°C								
Temperature range									
Excitation	10V maximum								
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	Му	Mz	Units	
Capacity	4448	4448	8896	Ν	678	678	339	N-m	
Sensitivity	0.337	0.337	0.0854	µv∕v-N	3.1	3.1	6.64	µv/v-N-m	
Natural frequency	800	800	875	Hz	-	-	-	Hz	
Stiffness (X 105)	421	421	2805	N/m	-	-	-	N-m/rad	

Resolution

Units: Metric

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) TECHNICAL DRAWING Footprint Drawing



## **MC6-4000 SPECIFICATIONS**

The MC6 is a six-axis transducer with threaded inserts in its top surface and a flanged base for t-slot mounting. A high-strength aluminum alloy (7075-T6) is used throughout to withstand harsh manufacturing and testing environments. A durable anodized finish protects the exterior from corrosion while elastomeric 0-ring seals protect the strain gages and wiring. Internal potting of the strain gages further insures long life and consistent, reliable performance.

▼ Capacity: 17793 N ▼



Dimensions(WxLxH)	152 x 152 x 84.07 mm 5.91 Kg. Fx, Fy, Fz, Mx, My, Mz Aluminum -17.78 to 51.67°C			IP Rating	IP Rating			IP60		
Weight				Sensing elements Amplifier			Strain gage bridge Required			
Channels										
Body Material				Analog out	Analog outputs Digital outputs			6 Channels None		
Temperature range				Digital outp						
Excitation	10V maximum		Crosstalk	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	Му	Mz	Units		
Capacity	8897	8897	17794	Ν	1355	1355	678	N-m		
Sensitivity	0.169	0.169	0.0427	μv/v-N	1.55	1.55	3.32	µv/v-N-m		
Natural frequency	1000	1000	1200	Hz	-	-	-	Hz		
Stiffness (X 105)	842	842	5611	N/m	_	_	_	N-m/rad		

Resolution

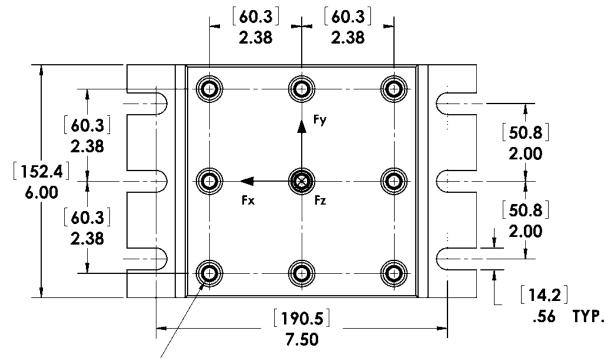
Units: Metric

To determine the resolution of your system, please use our Output Calculator.

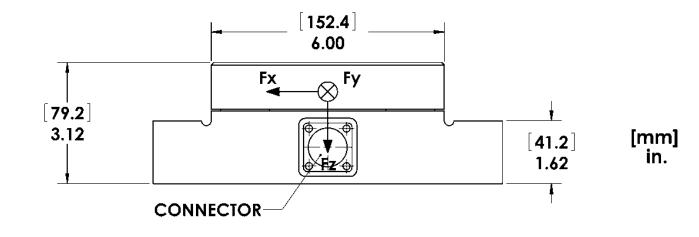
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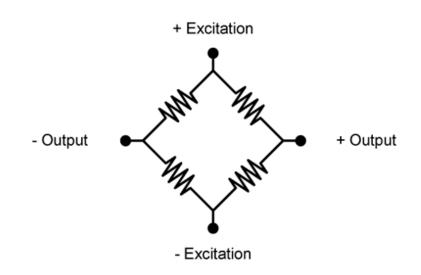
TECHNICAL DRAWINGS Footprint Drawing (click on image to enlarge) Electrical Drawing (click on image to enlarge) TECHNICAL DRAWING Footprint Drawing





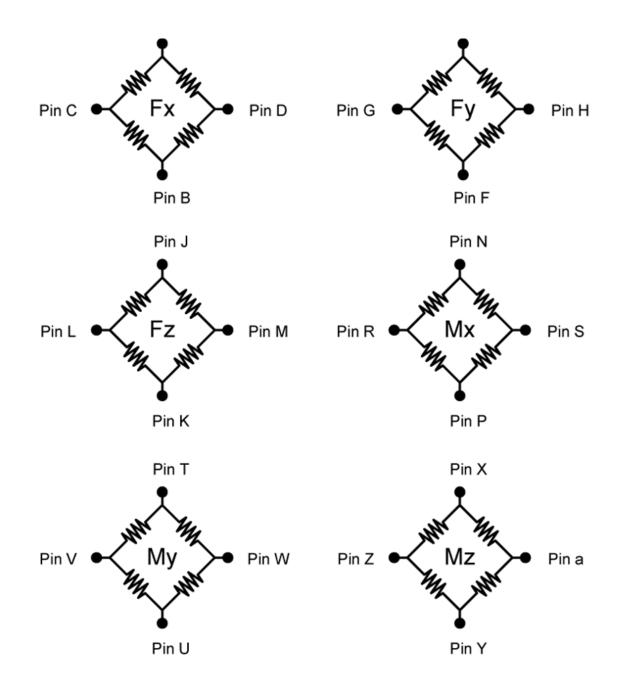


Electrical Drawing



Pin E

Pin A



## Bridge Fz = 350 ohms Bridges Fx; Fy; Mx; My; Mz = 700 ohms **Connector Type:** Souriau 851-02E16-26P50-44

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