

MCL6-2000 SPECIFICATIONS

The MCL6 is designed to measure cutting tool forces during turning operations, such as in a lathe, and features a tool holder mounting fixture. The instrument has a top mounting surface (6.5 inches square) equipped with mounting holes and threaded inserts for convenient attachments of other devices. A high-strength anodized aluminum alloy (7075-T6) is used for the top plate and a corrosion resistant steel base provides added mounting stiffness for non-fully supported mounting. The tool holder standard size is 1" square. Elastomeric O-ring seals protect the strain gages and wiring and internal coating of the strain gages further ensures long life and consistent, reliable performance.

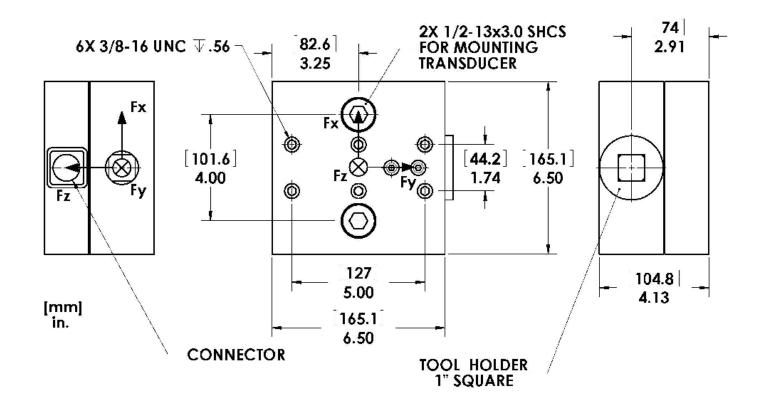


Units: Metric ▼ Capacity: 8896 N ▼

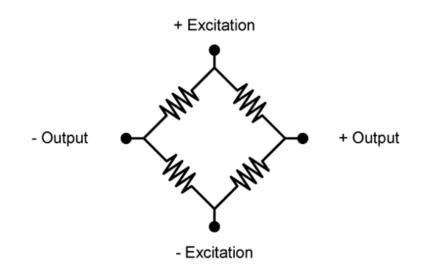
Dimensions(WxLxH)	165 x 165 x 104.9 mm 18.18 Kg. Fx, Fy, Fz, Mx, My, Mz			IP Rating Sensing elements Amplifier			IPnull Strain gage bridge Required		
Weight									
Channels									
Body Material	Steel			Analog outputs			6 Channels		
Temperature range	-17.78 to 51.67°C			Digital outputs			None		
Excitation	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	Му	Mz	Units	
Capacity	4448	4448	8896	Ν	678	678	339	N-m	
Sensitivity	0.337	0.337	0.0854	μv/v-N	3.76	3.76	6.64	μν/ν-N-m	
Natural frequency	800	800	875	Hz	-	-	-	Hz	
Stiffness (X 105)	421	421	2805	N/m	-	-	-	N-m/rad	
Resolution	To determine the resolution of your system, please use our <u>Output Calculator.</u>								

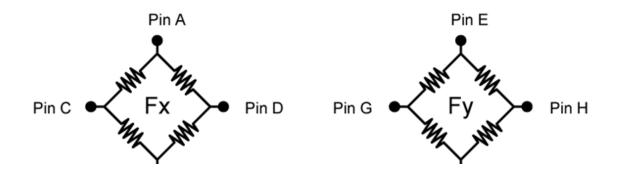
Published specifications subject to change without notice.

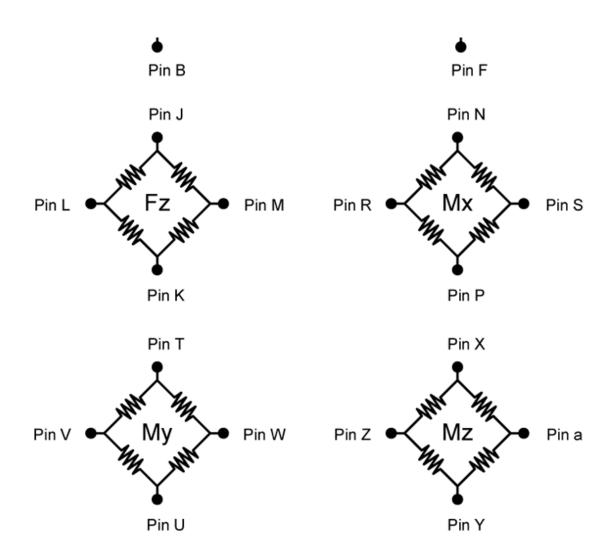
Last modified:2016-08-23



Electrical Drawing







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

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