



MC5-5000 SPECIFICATIONS

The MC5 is a cylindrical, six-axis transducer with threaded inserts on its top and bottom surfaces. The body of the load cell is manufactured from high strength aluminum with an anodized finish. An elastomeric O-ring seal protects the strain gages and wiring. Internal sealing of the strain gages further ensures long life and consistent, reliable performance.



Units: Capacity:

Dimensions(LxDia.)	127 x 125.7 mm		
Weight	3.18 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Body 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	11121	11121	22242	N	813	813	565	N-m
Sensitivity	0.225	0.225	0.0562	µv/v-N	5.09	5.09	3.1	µv/v-N-m
Natural frequency	-	-	-	Hz	880	880	-	Hz
Stiffness (X 105)	842	842	4208	N/m	3.39	3.39	2.26	N-m/rad

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

The Fx, Fy, and Fz capacities can be exceeded by a factor of 3 as long as the Mx, My, and Mz capacities are not exceeded.

Notes: The Mx and My capacities are calculated in reference to the transducer origin located 2.37 in (6 cm) below the top surface.

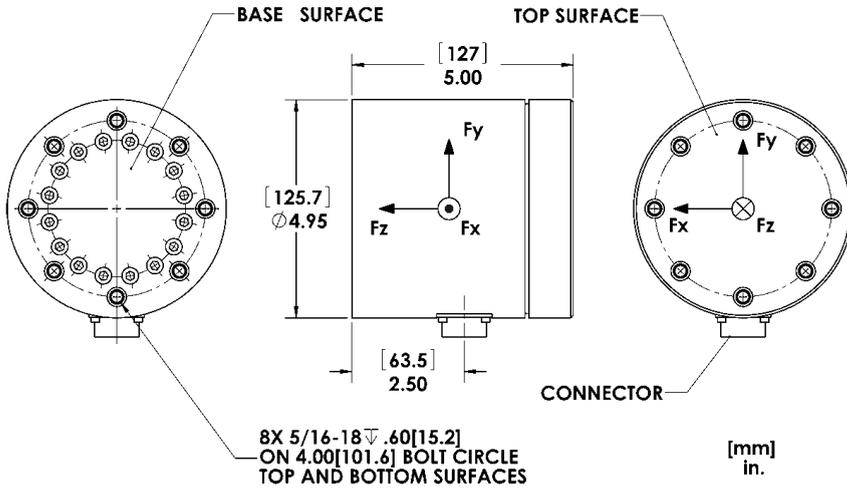
The listed natural frequency is the lowest natural frequency for the force sensor and will dominate.

Published specifications subject to change without notice.

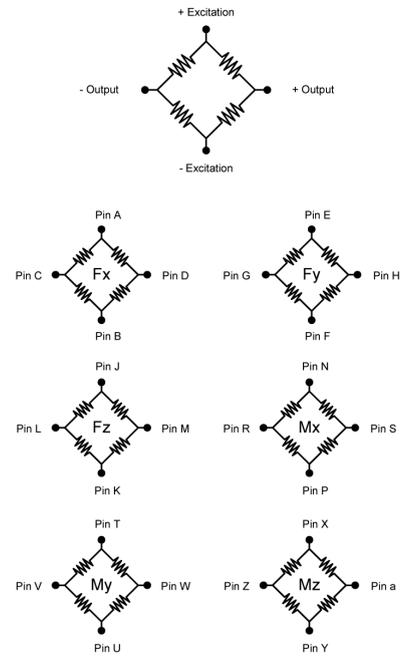
Last modified:2016-08-23

TECHNICAL DRAWINGS

Footprint Drawing



Electrical Drawing



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

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