

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	IP Rating	IP60
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	2780	2780	5560	N	203	203	141	N-m
Sensitivity	0.899	0.899	0.225	$\mu\text{V/V-N}$	20.37	20.37	12.4	$\mu\text{V/V-N-m}$
Natural frequency	-	-	-	Hz	440	440	-	Hz
Stiffness (X 105)	210	210	1052	N/m	0.847	0.847	0.565	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.

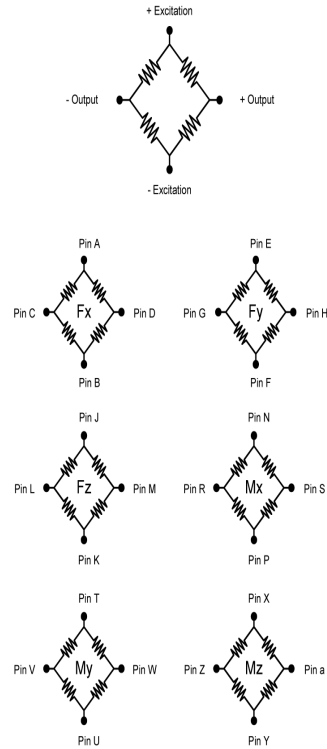
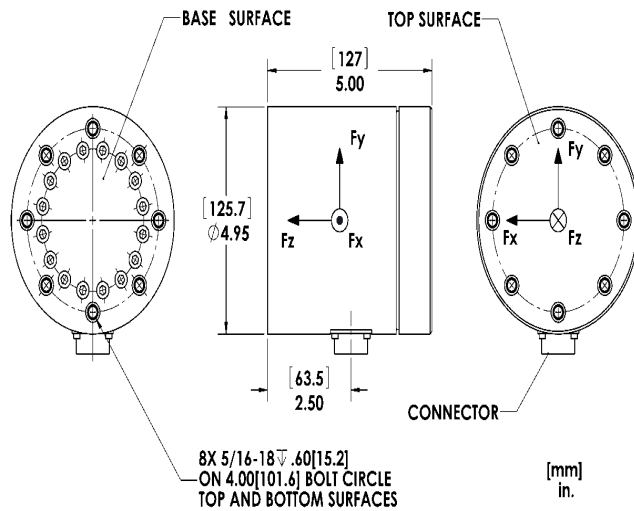
Published specifications subject to change without notice.

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TECHNICAL DRAWING

Footprint Drawing

Electrical Drawing



Bridges F_z; M_z = 700 ohms
 Bridges F_x; F_y; M_x; M_y; = 350 ohms
Connector Type:
 Souriau 851-02E16-26P50-44