

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. 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 O-ring seals protect the strain gages and wiring. Internal potting of the strain gages further insures long life and consistent, reliable performance.



Units: Capacity:

Dimensions(WxLxH)	305 x 406 x 78.74 mm	IP Rating	IPnull
Weight	22.73 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	2224	2224	4448	N	678	678	339	N-m
Sensitivity	0.674	0.674	0.171	$\mu\text{v/v-N}$	2.48	2.48	5.84	$\mu\text{v/v-N-m}$
Natural frequency	450	450	880	Hz	-	-	-	Hz
Stiffness (X 105)	210	210	1403	N/m	-	-	-	N-m/rad

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

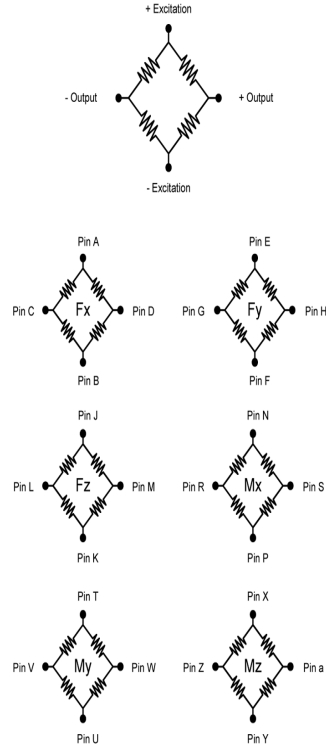
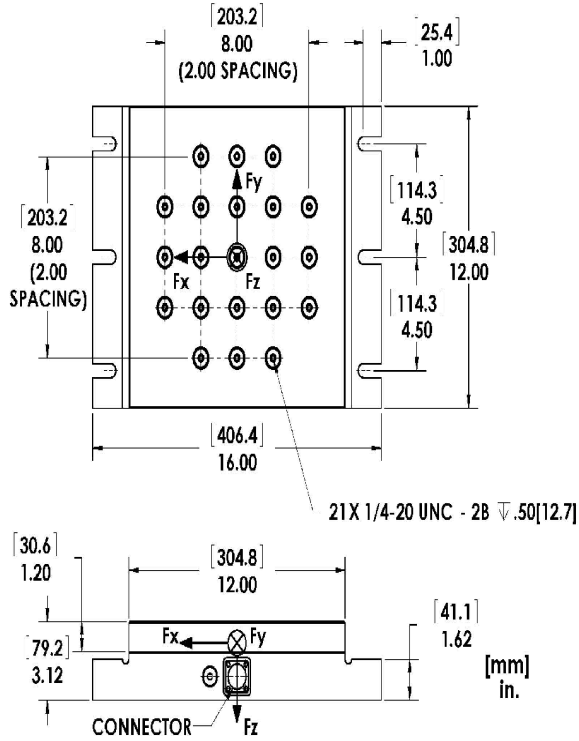
Published specifications subject to change without notice.

Last modified:2016-08-23

TECHNICAL DRAWING

Footprint Drawing

Electrical Drawing



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