MC12-1000 SPECIFICATIONS

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

Units: Metric ▼ Capacity: 4448 N ▼

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	µv/v-N	2.48	2.48	5.84	µv/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 DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING
Footprint Drawing

MC12-2000 SPECIFICATIONS

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

Units: Metric ▼ Capacity: 8896 N ▼

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	4448	4448	8896	N	1355	1355	678	N-m
Sensitivity	0.337	0.337	0.0854	µv/v-N	1.24	1.24	2.92	µv/v-N-m
Natural frequency	580	580	1100	Hz	-	-	-	Hz
Stiffness (X 105)	421	421	2805	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 DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING
Footprint Drawing

MC12-4000 SPECIFICATIONS

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

Units: Metric ▼ Capacity: 17793 N ▼

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

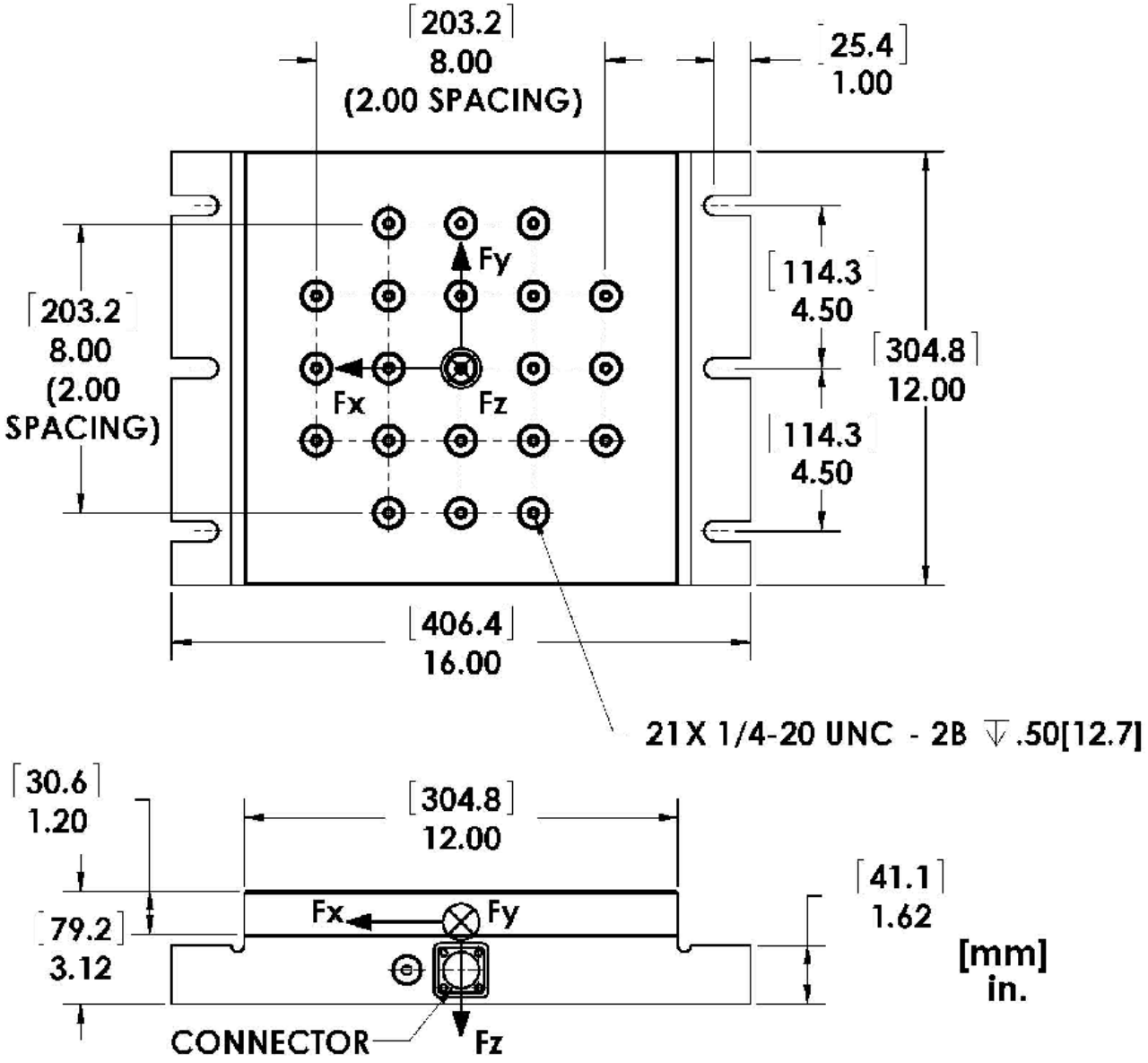
Channel	**Fx**	**Fy**	**Fz**	**Units**	**Mx**	**My**	**Mz**	**Units**
Capacity	8897	8897	17794	N	2710	2710	1355	N-m
Sensitivity	0.169	0.169	0.0427	µv/v-N	0.62	0.62	1.46	µv/v-N-m
Natural frequency	750	750	1400	Hz	-	-	-	Hz
Stiffness (X 105)	842	842	5611	N/m	-	-	-	N-m/rad

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

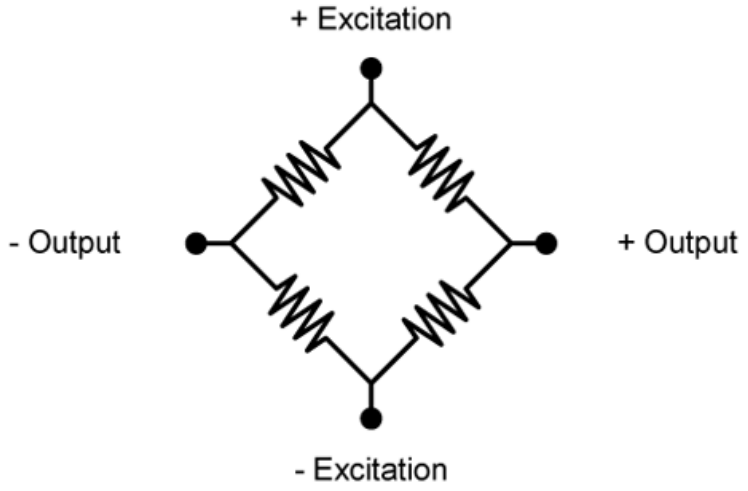
Published specifications subject to change without notice.

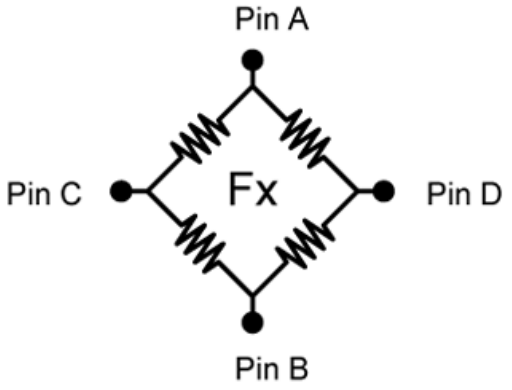
Last modified:2016-08-23

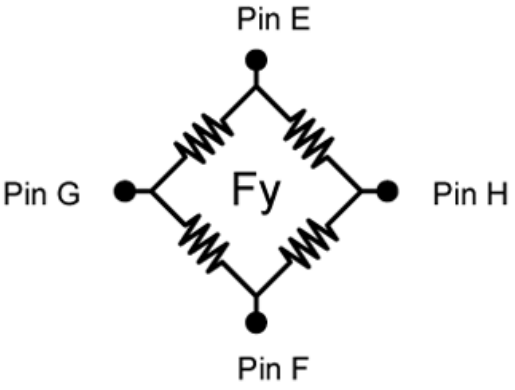
TECHNICAL DRAWINGS
Footprint Drawing (click on image to enlarge)
Electrical Drawing (click on image to enlarge)
TECHNICAL DRAWING
Footprint Drawing

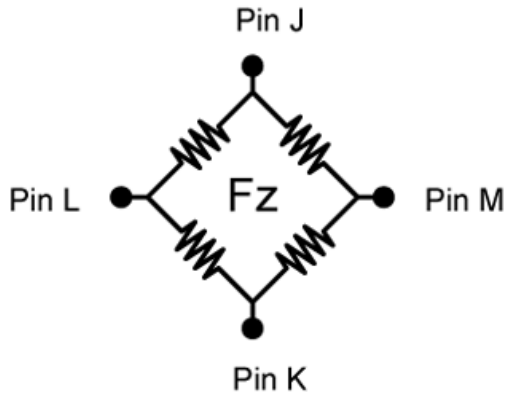


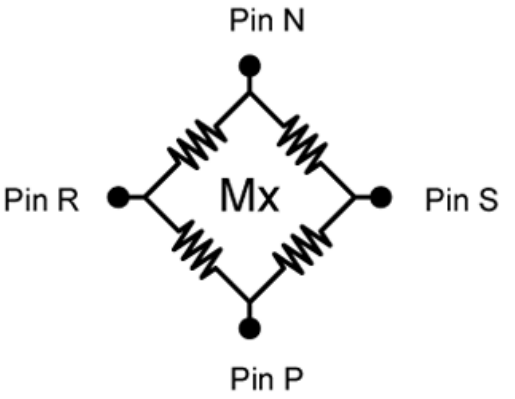
Electrical Drawing

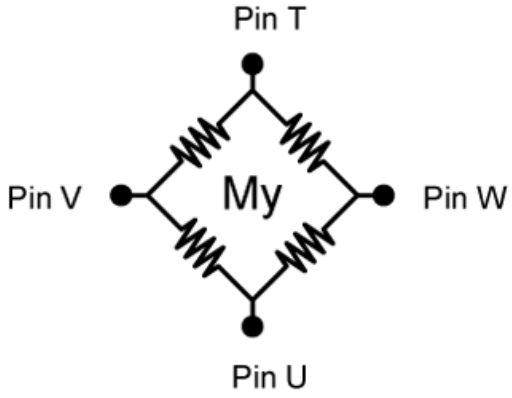


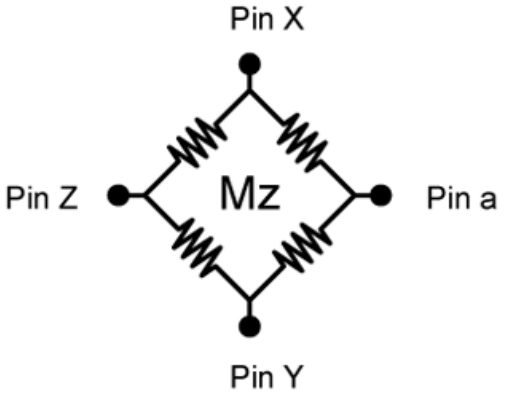












Bridge Fz = 350 ohms

Bridges Fx; Fy; Mx; My; Mz = 700 ohms

Connector Type:

Souriau 851-02E16-26P50-44

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