

# MC1-250 SPECIFICATIONS

The MC1 is a compact and waterproof six-axis sensor that is well-suited for applications such as underwater models and tow tanks. This model features a integral, axial-exit cable; however, the sensor is also available with a side-exit cable (MC1A).



Units: Metric      Capacity: 250

Dimensions(LxDia.)	82.55 x 25.4 mm		
Weight	0.0909 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate material	Stainless 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	My	Mz	Units
Capacity	556	556	1112	N	5.6	5.6	5.6	N-m
Sensitivity	0.393	0.393	0.101	µv/v-lb	31	31	31	µv/v-in-lb
Natural frequency	-	-	-	Hz	-	-	-	Hz
Stiffness (X 10 <sup>5</sup> )	43.83	43.83	789	N/m	-	-	0.113	N-m/rad

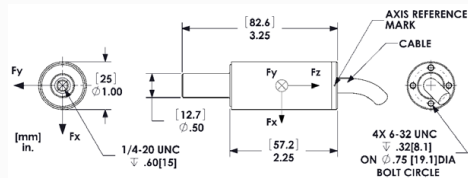
Resolution      *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

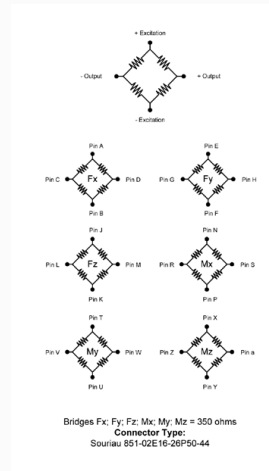
Last modified:10/22/201

## TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



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# MC1-500 SPECIFICATIONS



Units: Metric      Capacity: 500

Dimensions(LxDia.)	82.55 x 25.4 mm		
Weight	0.0909 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Top plate material	Stainless 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	My	Mz	Units
Capacity	1112	1112	2224	N	11	11	11	N-m
Sensitivity	0.197	0.197	0.0506	µv/v-lb	15.5	15.5	15.5	µv/v-in-lb
Natural frequency	-	-	-	Hz	-	-	-	Hz
Stiffness (X 10 <sup>5</sup> )	87.67	87.67	1578	N/m	-	-	0.226	N-m/rad

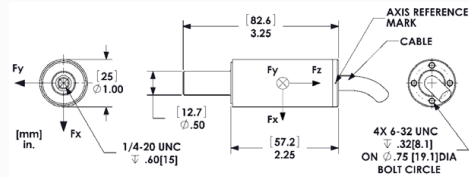
Resolution      *To determine the resolution of your system, please use our [Output Calculator](#).*

Published specifications subject to change without notice.

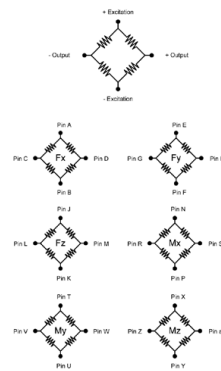
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## TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)



Electrical Drawing (click on image to enlarge)



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