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MC3A-250 SPECIFICATIONS

The MC3A is a compact, six-axis transducer with threaded inserts on its top surface and thorugh holes on its bottom surface that act as attachment points. The body of the load cell is manufactured from a high-strength aluminum alloy with an anodized finish to protect the exterior from corrosion. Elastomeric 0-ring seals provide internal protection of the strain gages and wiring from industrial environments and moisture exposure. A waterproof version SF3 is available for use in tow tanks, ocean engineering, and other underwater applications.



Units: Metric ▼ Capacity: 1112 N ▼

Dimensions (WxLxH)	76 x	76 x 76.2 m	m							
Weight	0.90)9 Kg.	Sensing elements Strain gage brid				ge bridge			
Channels	Fx, Fy, Fz, Mx, My, Mz Aluminum -17.78 to 51.67°C 10V maximum			Amp	lifier	Required 6 Channels				
Body Material				Anal	og outputs					
Temperature range				Digit	Digital outputs			None		
Excitation				Cros	stalk	< 2% on all channels				
Fx, Fy, Fz hysteresis	± 0.2% full scale output			Fx, Fy	y, Fz non-line	arity	± 0.2% full scale output			
Channel	Fx	Fy	Fz	Units	Mx	Му	Mz	Units		
Canacity	EE1	E E Z	1110	NI NI	20	20	1.4	Nm		

Channel	Fx	Fy	Fz	Units	Mx	Му	Mz	Units	
Capacity	556	556	1112	Ν	28	28	14	N-m	
Sensitivity	2.16	2.16	0.54	μv /v-N	106.3	106.3	85.06	µv/v-N-m	
Natural frequency	-	-	-	Hz	500	500	-	Hz	
Stiffness (X 105)	52.58	52.58	745	N/m	-	-	0.0564	N-m/rad	

Resolution To determine the resolution of your system, please use our <u>Output Calculator</u>.

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

Published specifications subject to change without notice.

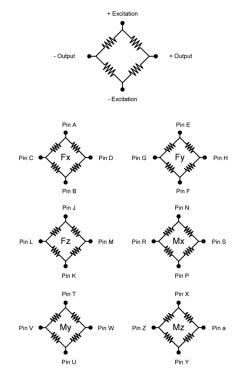
Last modified:2016-08-23

TECHNICAL DRAWINGS

Footprint Drawing

[6.7] 4X \emptyset .27 MOUNTING HOLES TOP SURFACE CONNECTOR 76.2 4X 1/4-20 3.00 Φ ф ٨ (Fy [60.3] □ 2.37 [50.8] 2.00 0 0 Ф Φ [15] .59 76.2 [15] □ 3.00 .59 3.00 [38.3] 1.51 [mm] in.

Electrical Drawing



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

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176 Waltham Street, Watertown, MA 02472-4800 USA

1-617-926-6700