



SF3-250 SPECIFICATIONS

AMTI's SF3, formerly designated the MC3-SSUDW, is a six-component force sensor that features a stainless steel body and an oil-filled pressure compensation bladder to enable short-term (<24 hours) continuous submersion in fresh water. The pressure compensation bladder allows operation underwater with minimal output on the force and moment channels due to water pressure.



Units: Capacity:

Dimensions (WxLxH)	76 x 76 x 76.2 mm		
Weight	1.97 Kg.	Sensing elements	Strain gage bridge
Channels	Fx, Fy, Fz, Mx, My, Mz	Amplifier	Required
Body 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	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	-	-	-	Hz
Stiffness (X 105)	52.58	52.58	745	N/m	-	-	0.0564	N-m/rad

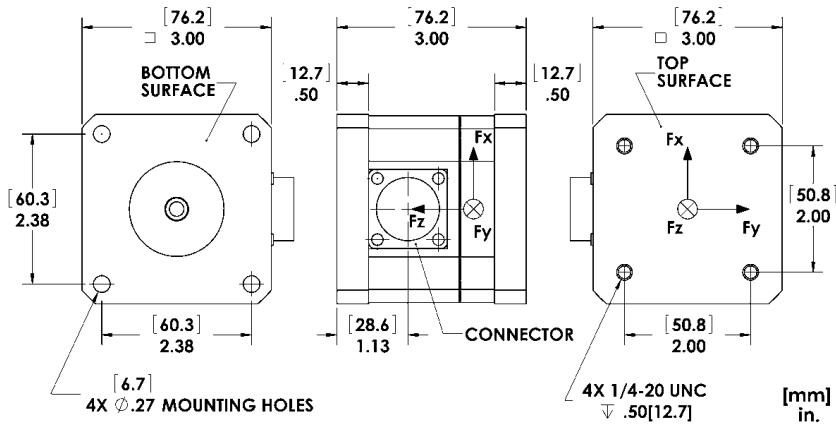
Resolution [To determine the resolution of your system, please use our Output Calculator.](#)

Published specifications subject to change without notice.

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TECHNICAL DRAWINGS

Footprint Drawing



Electrical Drawing

No electrical schematic currently in the database

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