



www.AMTI.biz | sales@amtimail.com

SF3-100 SPECIFICATIONS

AMTI's SF3, formally 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.



Units: Capacity:

Dimensions(WxLxH)	76 x 76 x 76.2 mm	IP Rating	IP68
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	222	222	445	N	11	11	5.6	N-m
Sensitivity	5.4	5.4	1.35	µv/v-N	266	266	213	µv/v-N-m
Natural frequency	-	-	-	Hz	-	-	-	Hz
Stiffness (X 105)	21.04	21.04	298	N/m	-	-	0.0226	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

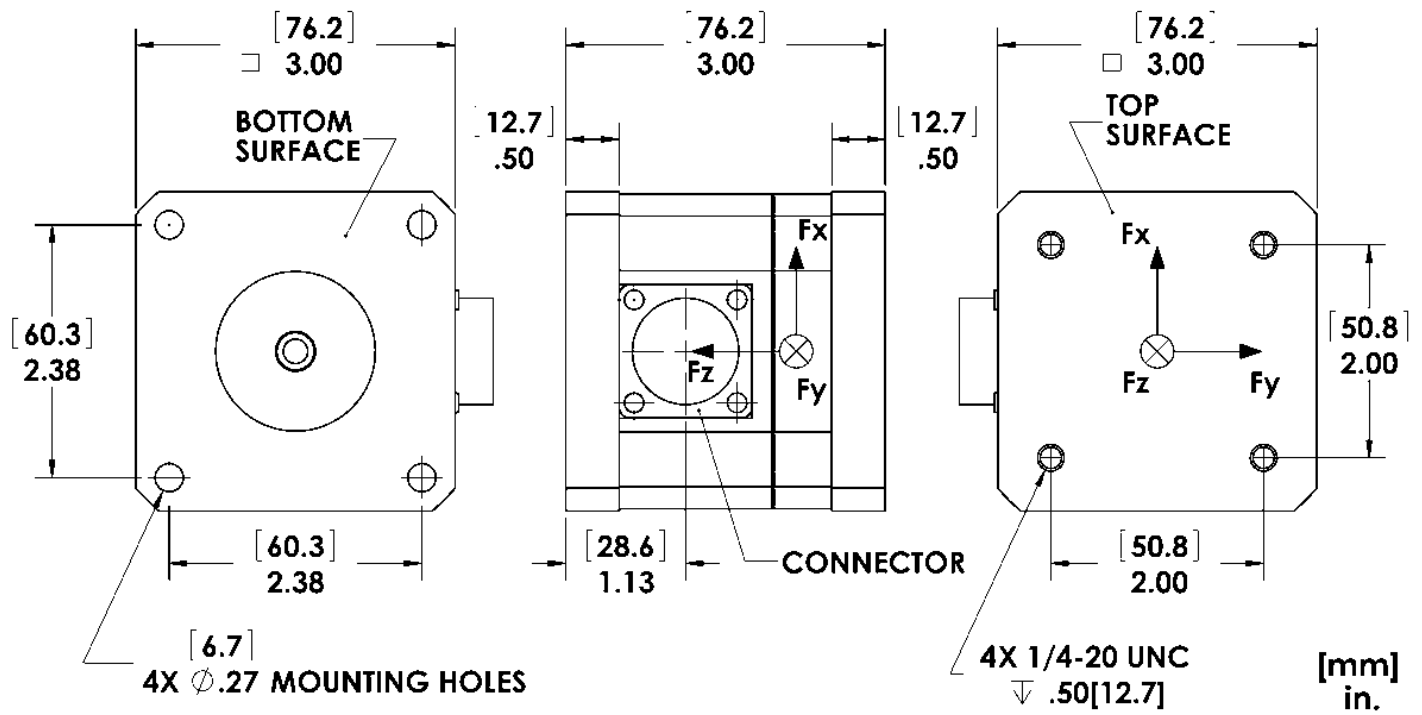
TECHNICAL DRAWINGS

Footprint Drawing (click on image to enlarge)

Electrical Drawing

TECHNICAL DRAWING

Footprint Drawing



Electrical Drawing

No electrical schematic currently in the database

© Advanced Mechanical Technology, Inc.

176 Waltham Street, Watertown, MA 02472-4800 USA

1-617-926-6700

