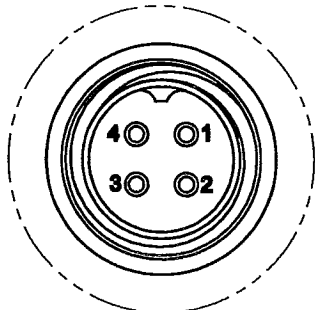


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9660	INITIAL RELEASE	RA 05/22/13	LN	[Signature]



DETAIL A

CONNECTOR PINOUT
 PIN 1 GND RETURN, COMMON
 PIN 2 SIG/PWR AXIS 2 (Y)
 PIN 3 SIG/PWR AXIS 3 (Z)
 PIN 4 SIG/PWR AXIS 1 (X)

6. DIELECTRIC WITHSTAND, SIGNAL GROUND TO HOUSING ISOLATION:
 1mA MAX AT 1000 VDC FOR 1 MINUTE WITH 20 SECONDS RAMP

5. MATES WITH DYTRAN CABLE
 6811AXX (XX=LENGTH IN FEET)

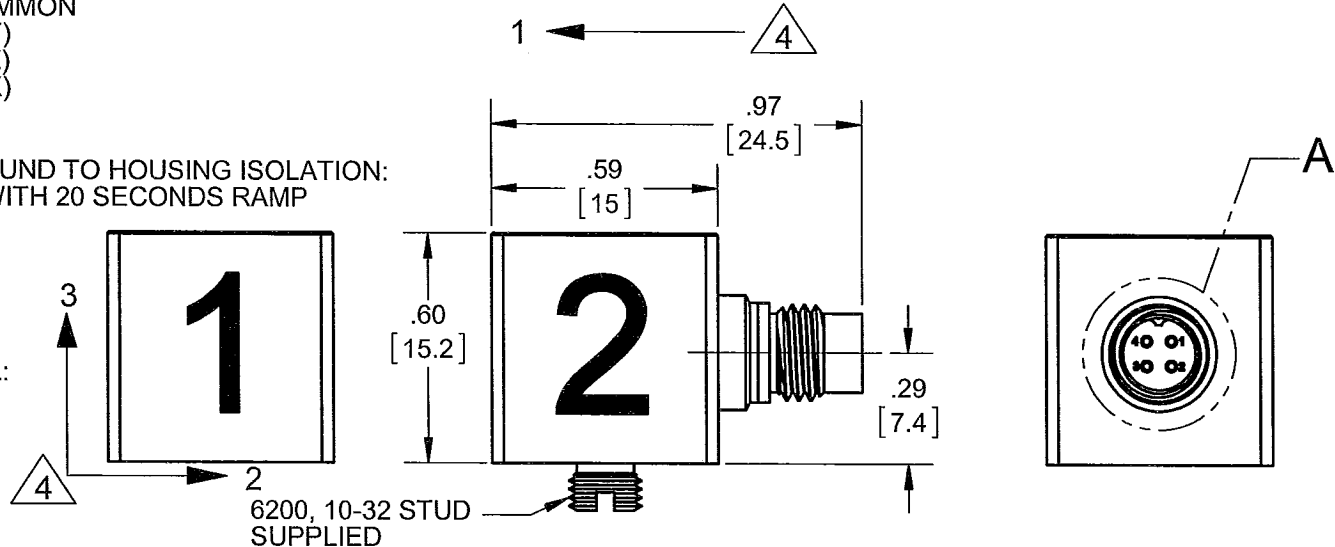
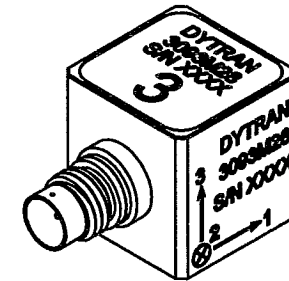
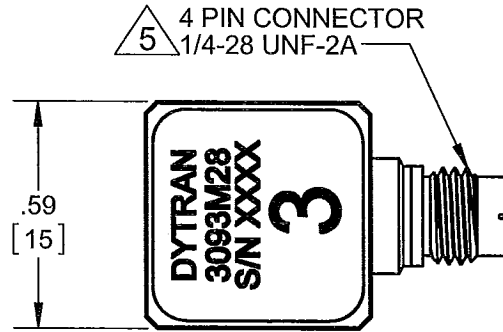
4. ARROWS INDICATE ACCELERATION
 DIRECTION FOR POSITIVE OUTPUT.

3. HOUSING AND CONNECTOR MATERIAL:
 TITANIUM

2. WEIGHT: 13 GRAMS MAX.

1. ENVIRONMENTAL SEAL: HERMETIC

NOTES: UNLESS OTHERWISE SPECIFIED



CONTRACT NO.



TITLE:

**OUTLINE/INSTALLATION
 DRAWING, MODEL 3093M28**

APPROVALS		DATE
ORIG	RA	04/10/13
CHK	LN	5/22/13
APP	[Signature]	5/28/13
APP		

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3093M28	A
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

UNLESS OTHERWISE SPECIFIED:
 INTERPRET DIM & TOL PER
 ASME Y14.5M - 1994.
 REMOVE BURRS.
 COUNTERSINK INTERNAL THDS
 90° TO MAJOR DIA.
 CHAM EXT THDS 45° TO MINOR DIA.
 THD LENGTHS AND DEPTHS ARE FOR
 MIN FULL THDS.
 THDS PER MIL-S-7742.
 DIMENSIONS APPLY AFTER FINISHING.

63
 ALL MACHINED SURFACES.
 TOTAL RUNOUT WITHIN .005.
 BREAK SHARP EDGES .005 TO .010.
 MACHINED FILLET RADII .005 TO .015.
 WELDING SYMBOLS PER AWS A2.4.
 ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES.
 DIMENSIONS IN BRACKETS []
 ARE IN MILLIMETERS
 TOLERANCES ARE:
 INCHES METRIC ANGLES
 .XX ± .03 .X ± 0.8 ± 1°
 .XXX ± .010 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

3093M28

PERFORMANCE SPECIFICATION

DOC NO
PS3093M28

Accelerometer, Triaxial, IEPE

REV B, ECN 12063, 06/25/15



- GROUND ISOLATED
- HERMETICALLY SEALED
- TEDS FUNCTION

	ENGLISH		SI	
PHYSICAL				
Weight	0.5	oz	13	grams
Size				
Length	0.97	inch	24.6	mm
Width	0.59	inch	15.0	mm
Height	0.60	inch	15.2	mm
Mounting	10-32 Hole		10-32 Hole	
Connector [1]				
Type	4-pin		4-pin	
Housing				
Material	Ti-6 AL-4V		Ti-6 AL-4V	
Isolation	Case Isolated		Case Isolated	
Sensing Element				
Material	PiezoElectric		PiezoElectric	
Mode	Shear		Shear	
PERFORMANCE				
Sensitivity, +/-5% [2]	5	mV/g	0.51	mV/m/s ²
Acceleration Range, ±	1000	Gpeak	9810	m/s ² peak
Frequency Range, ±5%	3.3-3000	Hz	3.3-3000	Hz
Frequency Range, ±10%	2.2-5000	Hz	2.2-5000	Hz
Frequency Range, ±3dB	1.1-10000	Hz	1.1-10000	Hz
Resonance Frequency	>20	kHz	>20	kHz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity, Max	6	%	6	%
Noise floor	0.007	Grms	0.069	m/s ² rms
Spectral Noise				
1Hz	1000	µGrms/sqr(Hz)	9810	µm/s ² rms/sqr(Hz)
10Hz	500	µGrms/sqr(Hz)	4905	µm/s ² rms/sqr(Hz)
100Hz	100	µGrms/sqr(Hz)	981	µm/s ² rms/sqr(Hz)
1000Hz	60	µGrms/sqr(Hz)	589	µm/s ² rms/sqr(Hz)
10000Hz	50	µGrms/sqr(Hz)	491	µm/s ² rms/sqr(Hz)
ELECTRICAL				
Supply Current Range [4]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	100	Ω	100	Ω
Output Bias Voltage	+7.5 to +11.0	VDC	+7.5 to +11.0	VDC
Discharge Time Constant	0.15 to 0.25	sec	0.15 to 0.25	sec
ENVIRONMENTAL				
Shock Max	5000	g pk	49050	m/s ²
Vibration Max	1500	g pk	14715	m/s ²
Operating Temperature	-60 to +256	°F	-51 to +124	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.0001	g/Gauss	0.000981	m/s ² /Gauss
TEDS Feature [5]	IEEE 1451.4		IEEE 1451.4	
Base Strain Sensitivity	0.002	g/µε	0.01962	m/s ² /µε
TEDS Operating Temperature	-40 to +185	°F	-40 to +84	°C

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
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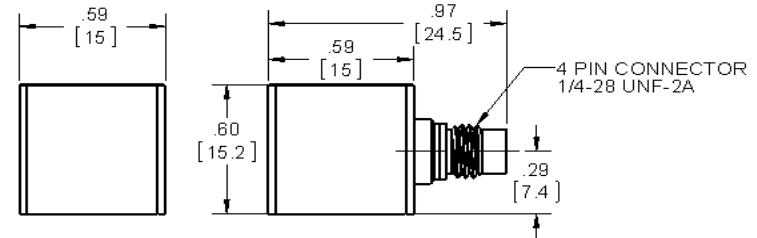
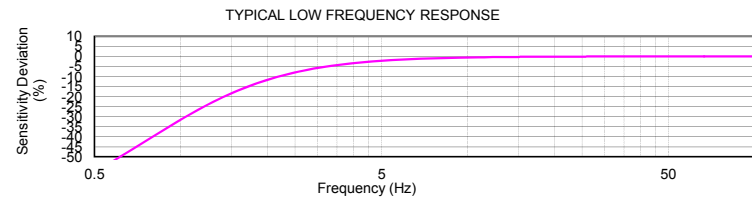
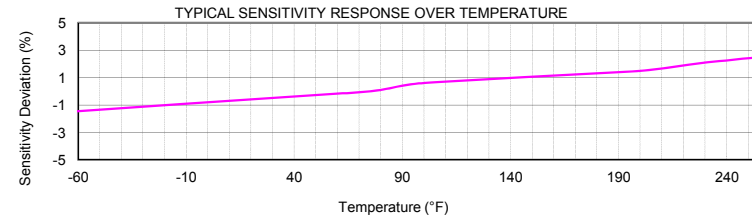
Please refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025).
- 2) 6200 Mounting Stud

Notes:

- [1] Glass to Metal Seal connector. Mates with Dytran cable Model 6811AXX (XX=length in feet).
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2.
- [3] Linearity is % of specified full scale (or any less full-scale range), zero-based best fit straight line method.
- [4] Do not apply power to this device without current limiting, 20mA Max, to do so will destroy the integral IC amplifier.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3093M28 for more information.



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