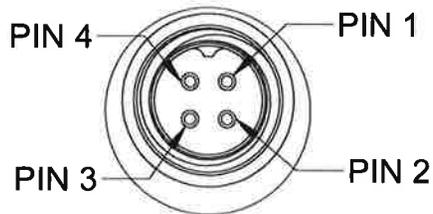


PROPRIETARY AND CONFIDENTIAL

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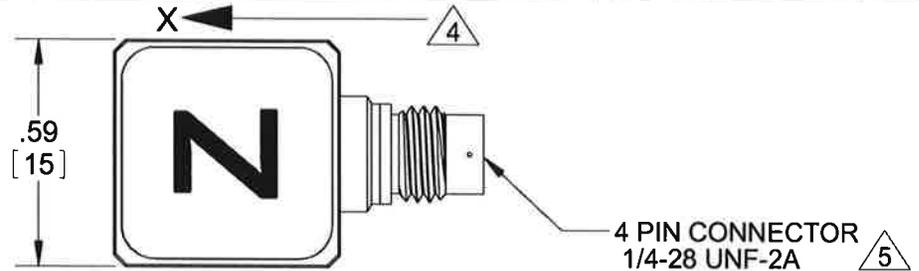
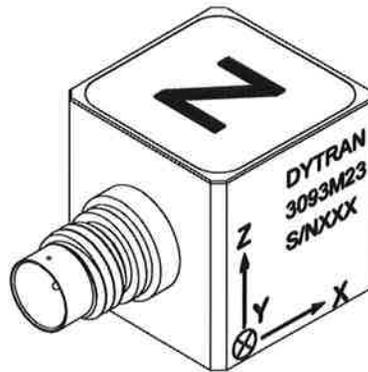
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	12594	ADDED NOTE 6	JS 03/31/16	LA	AS



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. MINOR VOIDS, SCARS, SCRATCHES AND MOUNTING BLEMISH/WITNESS MARKS ON EXTERIOR SURFACES ARE ALLOWED DUE TO RESTRAINING AND HANDLING DURING TESTING, TRANSPORT OR PROCESSING. THESE APPEAR AS INDICATORS THAT DO NOT AFFECT FORM, FIT OR FUNCTION AS INTENDED BY DESIGN OR APPLICATION

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

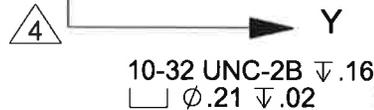
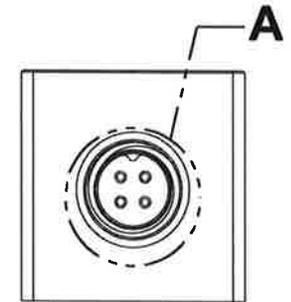
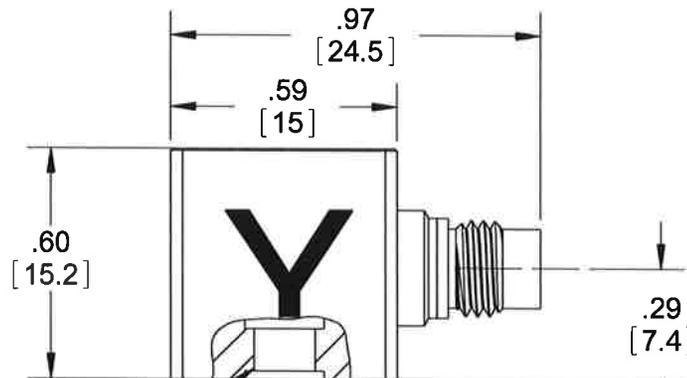
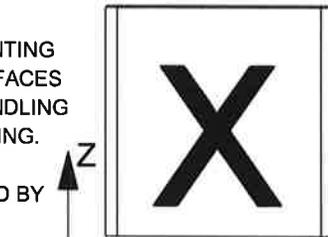
4 ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT.

3. HOUSING AND CONNECTOR MATERIAL: TITANIUM

2. WEIGHT: 15 GRAMS MAX.

1. ENVIRONMENTAL SEAL: HERMETIC

NOTES: UNLESS OTHERWISE SPECIFIED



MODEL 6200
 MTG STUD
 (SUPPLIED)

MOUNTING SURFACE PREPARATION: SELECT SURFACE FLAT TO .001 TIR
 TAP 10-32 UNF-2B X .200 MIN THD DEPTH. RECOMMENDED TORQUE 10-12 LB-IN.

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.
 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	

CONTRACT NO.	
APPROVALS	DATE
ORIG	RT 08/16/11
CHK	DV 08/27/11
APP	RT 08/30/11
APP	

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE:
OUTLINE/INSTALLATION DRAWING 3093M23

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3093M23	C

SCALE: 2:1 SOLIDWORKS SHEET 1 OF 1

3093M23

PERFORMANCE SPECIFICATION

DOC NO PS3093M23

Accelerometer, Triaxial, IEPE

REV F, ECN 15062, 05/21/2019



- TWO POLE ELECTRICAL FILTERED
- GROUND ISOLATED
- HERMETICALLY SEALED
- STUD MOUNT

PHYSICAL

Weight, Max
Mounting
Connector [1]
Type
Material
Housing
Material
Isolation
Case Isolated
Sensing Element
Material
Element

ENGLISH		SI	
0.5	oz	15	grams
10-32 Stud Mount		10-32 Stud Mount	
4-pin		4-pin	
Ti-6 AL-4V		Ti-6 AL-4V	
Ti-6 AL-4V		Ti-6 AL-4V	
Case Isolated		Case Isolated	
Piezoelectric		Piezoelectric	
Shear		Shear	

PERFORMANCE

Sensitivity, ±5% [2]
Acceleration Range, ±
Frequency Range, ±5%
Frequency Range, ±15%
Frequency Range, ±3dB
Resonance Frequency
Linearity [3]
Transverse Sensitivity, Max
Noise floor
Spectral Noise
1Hz
10Hz
100Hz
1000Hz
10000Hz

5	mV/g	0.51	mV/m/s ²
1000	Gpeak	9810	m/s ² peak
3.3-1000	Hz	3.3-1000	Hz
2.2-3000	Hz	2.2-3000	Hz
1.1-6000	Hz	1.1-6000	Hz
>50	kHz	>50	kHz
1	%F.S.	1	%F.S.
6	%	6	%
0.007	Grms	0.069	m/s ² rms
1000	μGrms/sqr(Hz)	9810	μm/s ² rms/sqr(Hz)
500	μGrms/sqr(Hz)	4905	μm/s ² rms/sqr(Hz)
100	μGrms/sqr(Hz)	981	μm/s ² rms/sqr(Hz)
60	μGrms/sqr(Hz)	589	μm/s ² rms/sqr(Hz)
50	μGrms/sqr(Hz)	491	μm/s ² rms/sqr(Hz)

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedance, Typ.
Output Bias Voltage
Discharge Time Constant
Filter (2 Pole, Butterworth)
Electical Isolation, Min.

2 to 20	mA	2 to 20	mA
+18 to +30	VDC	+18 to +30	VDC
100	Ω	100	Ω
+7 to +13	VDC	+7 to +13	VDC
0.15 to 0.5	Sec	0.15 to 0.5	Sec
6	kHz	6	kHz
10	GΩ	10	GΩ

ENVIRONMENTAL

Shock Max
Vibration Max
Operating Temperature
Seal
Base Strain Sensitivity

5000	g pk	49050	m/s ²
1500	g pk	14715	m/s ²
-60 to +250	°F	-51 to +121	°C
Hermetic		Hermetic	
0.002	g/με	0.02	m/s ² /με

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Noise Resolution (Grms)	Temp Range (°F)	Time Constant (sec)

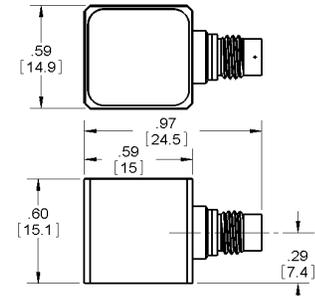
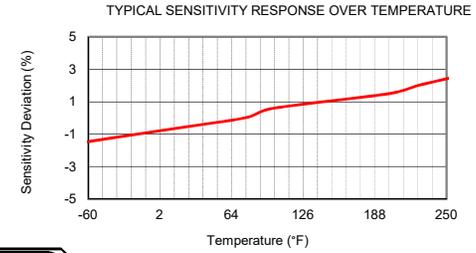
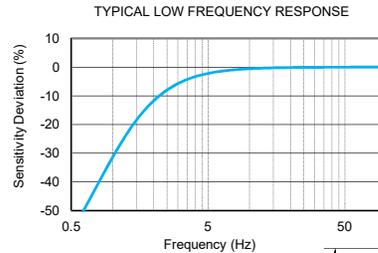
Please refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025).
- 2) Mounting stud model 6200, (10-32 to 10-32).

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] Measured using zero-based best 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.
- [5] In the interest of constant product improvement, we reserve the rights to change the specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3093M23 for more information.



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