

PROPRIETARY AND CONFIDENTIAL

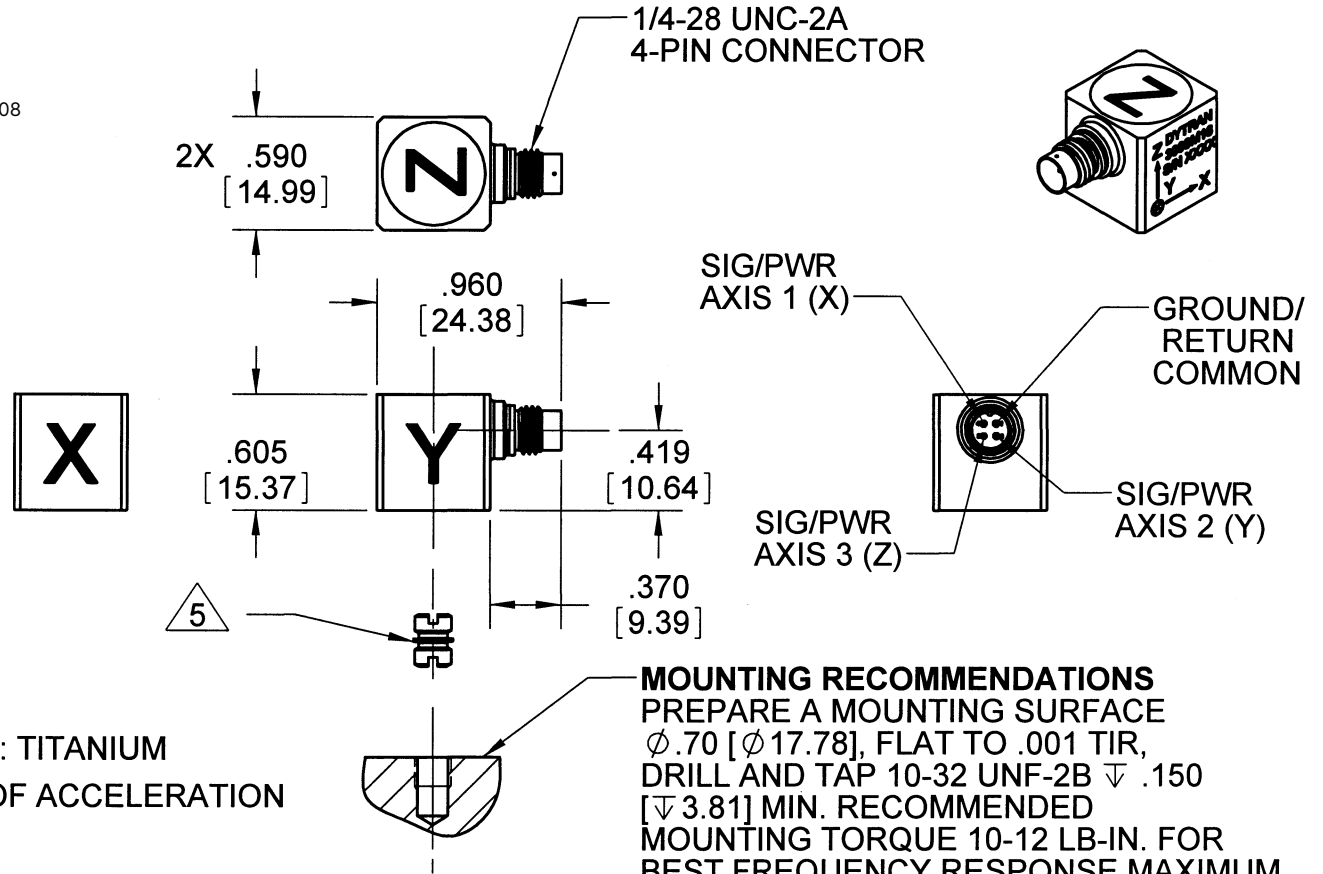
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5783	SEE ECN	JS 02/16/09	DV	ANS



5 MODEL 6200 (SUPPLIED)

4 DELETED

- HOUSING/CONNECTOR MATERIAL: TITANIUM
- ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
- WEIGHT 10 GRAMS APPROXIMATELY

NOTES: UNLESS OTHERWISE SPECIFIED

MOUNTING RECOMMENDATIONS
 PREPARE A MOUNTING SURFACE
 $\phi .70$ [$\phi 17.78$], FLAT TO .001 TIR,
 DRILL AND TAP 10-32 UNF-2B $\nabla .150$
 [$\nabla 3.81$] MIN. RECOMMENDED
 MOUNTING TORQUE 10-12 LB-IN. FOR
 BEST FREQUENCY RESPONSE MAXIMUM
 AREA OF CONTACT REQUIRED

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	
ORIG	DATE
CHK	EP
APP	ANS
APP	

DYTRAN INSTRUMENTS, INC. **MASTER ONLY IF IN RED**
 Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3093M18**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3093M18	B
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

MODEL NUMBER 3093M18	PERFORMANCE SPECIFICATION	DOC NO.
		PS3093M18
	Accelerometer, Triaxial, IEPE	REV C, ECN9751, 03/20/13



- TEDS FUNCTION
- HERMETICALLY SEALED
- STUD MOUNTED

	ENGLISH		SI	
PHYSICAL				
Weight	0.35	oz	10.0	grams
Connector [1]	4-pin, 1/4-28		4-pin, 1/4-28	
Housing	Type			
	Material	Ti-6 AL-4V	Ti-6 AL-4V	
Sensing Element	Material	Ti-6 AL-4V	Ti-6 AL-4V	
	Isolation	Case Isolated	Case Isolated	
Mode	Material	Ceramic	Ceramic	
	Mode	Shear	Shear	
PERFORMANCE				
Sensitivity, +15-10% [2]	10	mV/g	1.02	mV/m/s ²
Acceleration Range	500	Gpeak	4905.00	m/s ² peak
Frequency Range, ±5%	0.7-5000	Hz	0.7-5000	Hz
Resonance Frequency, Nom.	30	kHz	30	kHz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	6	%	6	%
Noise floor	0.006	Grms	0.059	m/s ² rms
Spectral Noise	1Hz	500 μGrms/sqr(Hz)	4905	μm/s ² rms/sqr(Hz)
	10Hz	80 μGrms/sqr(Hz)	784.8	μm/s ² rms/sqr(Hz)
	100Hz	50 μGrms/sqr(Hz)	490.5	μm/s ² rms/sqr(Hz)
	1000Hz	30 μGrms/sqr(Hz)	294.3	μm/s ² rms/sqr(Hz)
	10000Hz	15 μGrms/sqr(Hz)	147.15	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	11 - 13	VDC	11 - 13	VDC
Discharge Time Constant	0.5 to 1.5	sec	0.5 to 1.5	sec
ENVIRONMENTAL				
Shock Max	5000	g pk	49050	m/s ²
Vibration Max	3000	g pk	29430	m/s ²
Operating Temperature	-60 to +250	°F	-51 to +121	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.00007	g/Gauss	0.0006867	m/s ² /Gauss
Base Strain Sensitivity	0.05	g/με	0.4905	m/s ² /με
TEDS				
TEDs Format	1451.4 V1.0		1451.4 V1.0	

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC

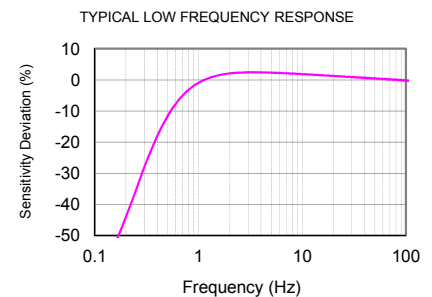
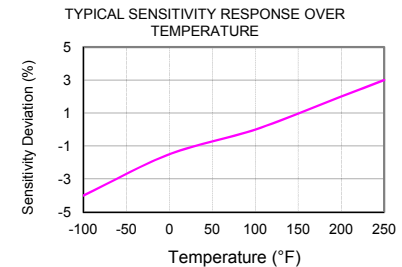
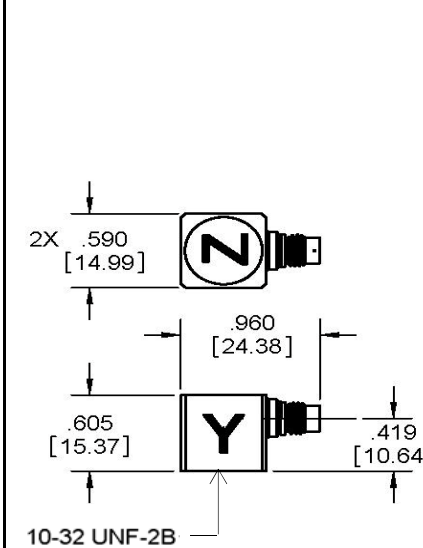
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

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

Notes:

- [1] Glass to Metal Seal connector. Mates with Dytran cable Model 6811AXX or 6824AXX (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-basec 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 127-3093M18 for more information.



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