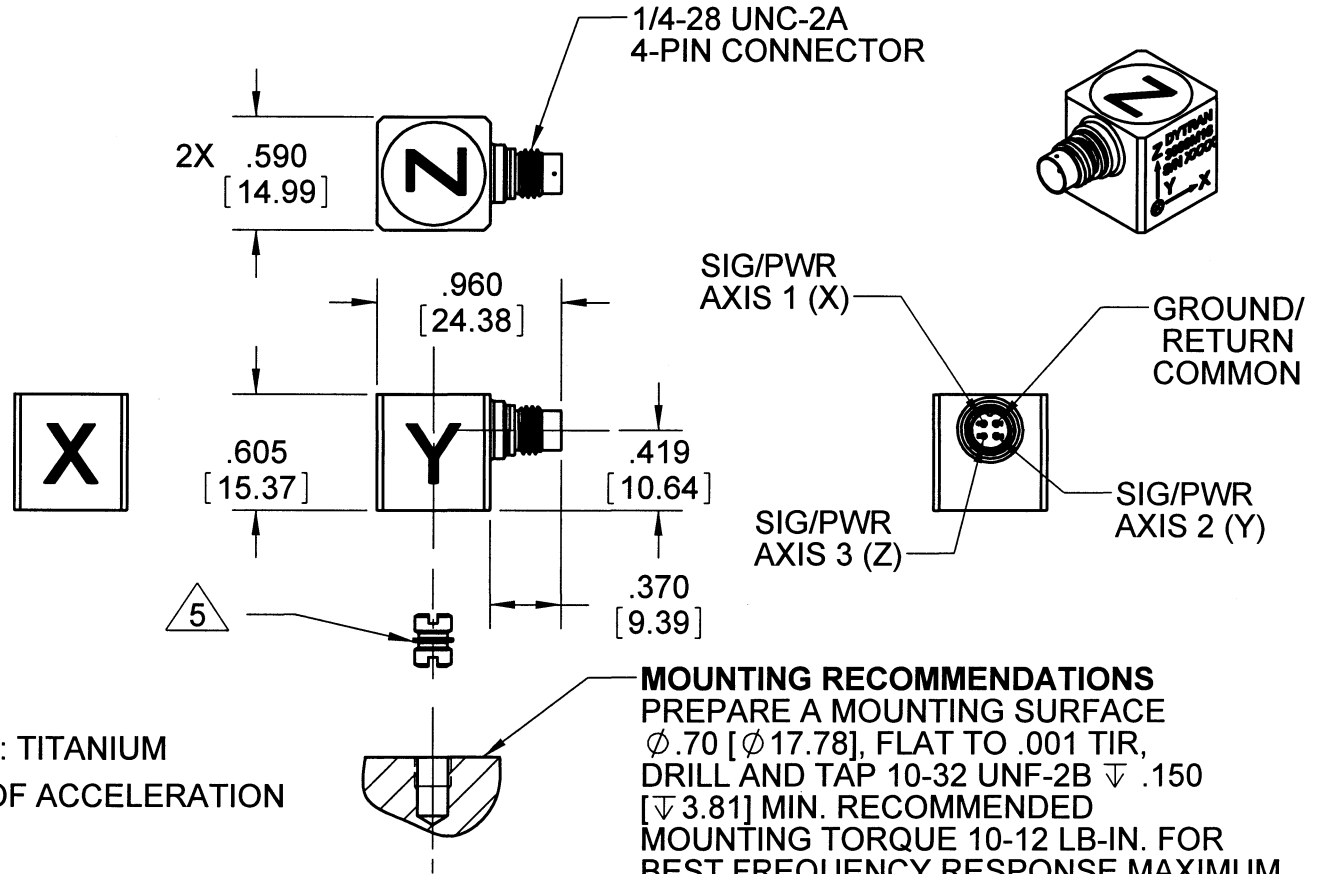


PROPRIETARY AND CONFIDENTIAL

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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

3. HOUSING/CONNECTOR MATERIAL: TITANIUM
2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
1. 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.

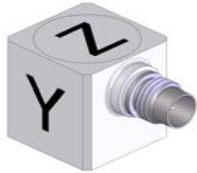
APPROVALS		DATE
ORIG	DV	01/02/09
CHK	EP	01/15/09
APP	ANS	01/17/09
APP		

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

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

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

MODEL NUMBER <b>3093M18</b>	<b>PERFORMANCE SPECIFICATION</b>	DOC NO.
		<b>PS3093M18</b>
	<b>Accelerometer, Triaxial, IEPE</b>	REV B, ECN5818, 03/06/09



- TEDS FUNCTION
- HERMETICALLY SEALED
- STUD MOUNTED

ENGLISH	SI
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<b>PHYSICAL</b>				
Weight		0.35	oz	10.0
Connector [1]	Type	4-pin, 1/4-28		4-pin, 1/4-28
	Material	Ti-6 AL-4V		Ti-6 AL-4V
Housing	Material	Ti-6 AL-4V		Ti-6 AL-4V
	Isolation	Case Isolated		Case Isolated
Sensing Element	Material	Ceramic		Ceramic
	Mode	Shear		Shear

<b>PERFORMANCE</b>				
Sensitivity, +15-10% [2]		10	mV/g	1.02
Acceleration Range		500	Gpeak	4905.00
Frequency Range, ±5%		0.7-5000	Hz	0.7-5000
Resonance Frequency, Nom.		30	kHz	30
Linearity [3]		1	%F.S.	1
Transverse Sensitivity Max		6	%	6
Noise floor		0.006	Grms	0.059
Spectral Noise	1Hz	500	μGrms/sqr(Hz)	4905
	10Hz	80	μGrms/sqr(Hz)	784.8
	100Hz	50	μGrms/sqr(Hz)	490.5
	1000Hz	30	μGrms/sqr(Hz)	294.3
	10000Hz	15	μGrms/sqr(Hz)	147.15

<b>ELECTRICAL</b>				
Supply Current Range [4]		2 to 20	mA	2 to 20
Compliance Voltage Range		+18 to +30	VDC	+18 to +30
Output Impedance, Typ.		100	Ω	100
Output Bias Voltage		11 - 13	VDC	11 - 13
Discharge Time Constant		0.4 to 0.7	sec	0.4 to 0.7

<b>ENVIRONMENTAL</b>				
Shock Max		5000	g pk	49050
Vibration Max		3000	g pk	29430
Operating Temperature		-60 to +250	°F	-51 to +121
Seal		Hermetic		Hermetic
Magnetic Sensitivity at 100 Gauss		0.00007	g/Gauss	0.0006867
Base Strain Sensitivity		0.05	g/με	0.4905

<b>TEDS</b>				
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

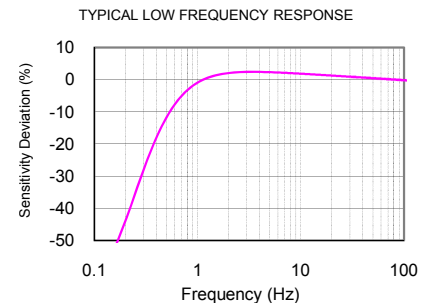
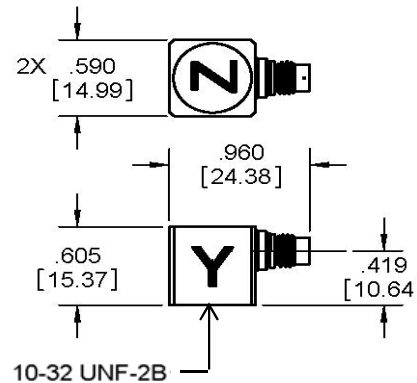
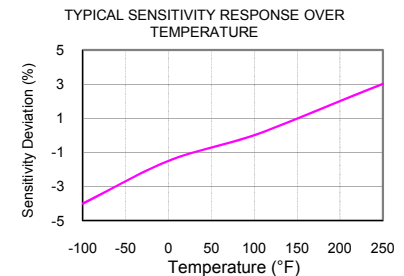
Please, refer to the performance specifications of the products in this family for detailed description

**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.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880  
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