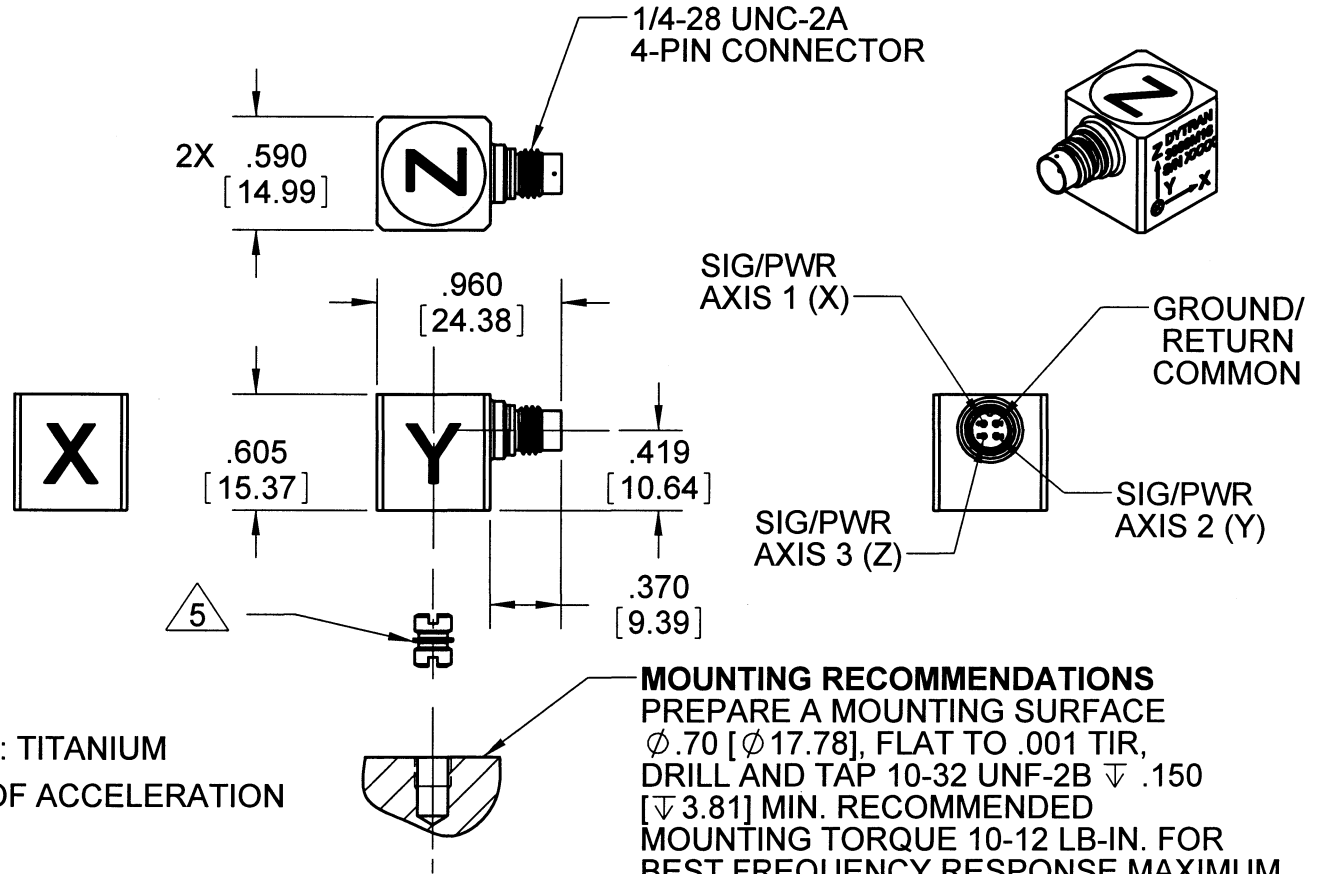


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REVISIONS

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 $\pm .03$	.X $\pm 0.8$	$\pm 1^\circ$
.XXX $\pm .010$	.XX $\pm 0.25$	

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>	Accelerometer, Triaxial, IEPE	DOC NO. <b>PS3093M18</b>
			REV D, ECN 13042, 10/28/16



- TEDS FUNCTION
- HERMETICALLY SEALED
- STUD MOUNTED

	ENGLISH		SI	
<b>PHYSICAL</b>				
Weight	0.35	oz	10.0	grams
Connector [1]	Type 4-pin, 1/4-28		Type 4-pin, 1/4-28	
Housing	Material Ti-6 AL-4V		Material Ti-6 AL-4V	
	Isolation Case Isolated		Isolation Case Isolated	
Sensing Element	Material Ceramic		Material Ceramic	
	Mode Shear		Mode Shear	
<b>PERFORMANCE</b>				
Sensitivity, +15-10% [2]	10	mV/g	1.02	mV/m/s <sup>2</sup>
Acceleration Range	500	Gpeak	4905.00	m/s <sup>2</sup> 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	0.0005	Grms	0.005	m/s <sup>2</sup> rms
Spectral Noise	1Hz	90	μGrms/sqr(Hz)	883
	10Hz	40	μGrms/sqr(Hz)	392
	100Hz	5	μGrms/sqr(Hz)	49
	1000Hz	3	μGrms/sqr(Hz)	29
	10000Hz	2	μGrms/sqr(Hz)	19.6
<b>ELECTRICAL</b>				
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
<b>ENVIRONMENTAL</b>				
Shock Max	5000	g pk	49050	m/s <sup>2</sup>
Vibration Max	3000	g pk	29430	m/s <sup>2</sup>
Temperature Range (<3% Deviation)	+50 to +100	°F	+10 to +38	°C
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 <sup>2</sup> /Gauss
Base Strain Sensitivity	0.05	g/με	0.4905	m/s <sup>2</sup> /με
<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

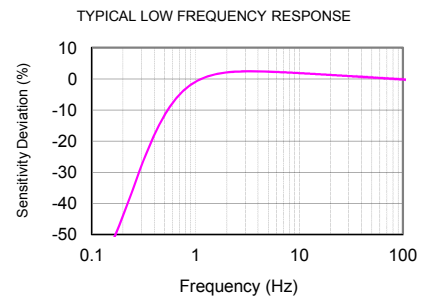
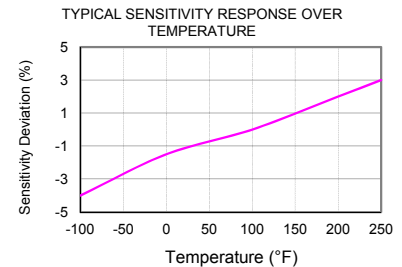
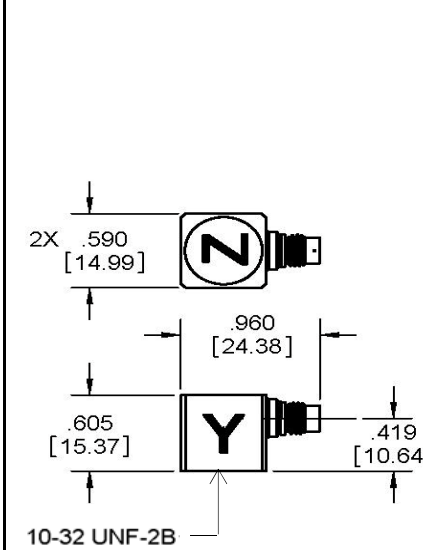
Please, refer to the performance specifications of the products in this family for detailed description

**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.



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