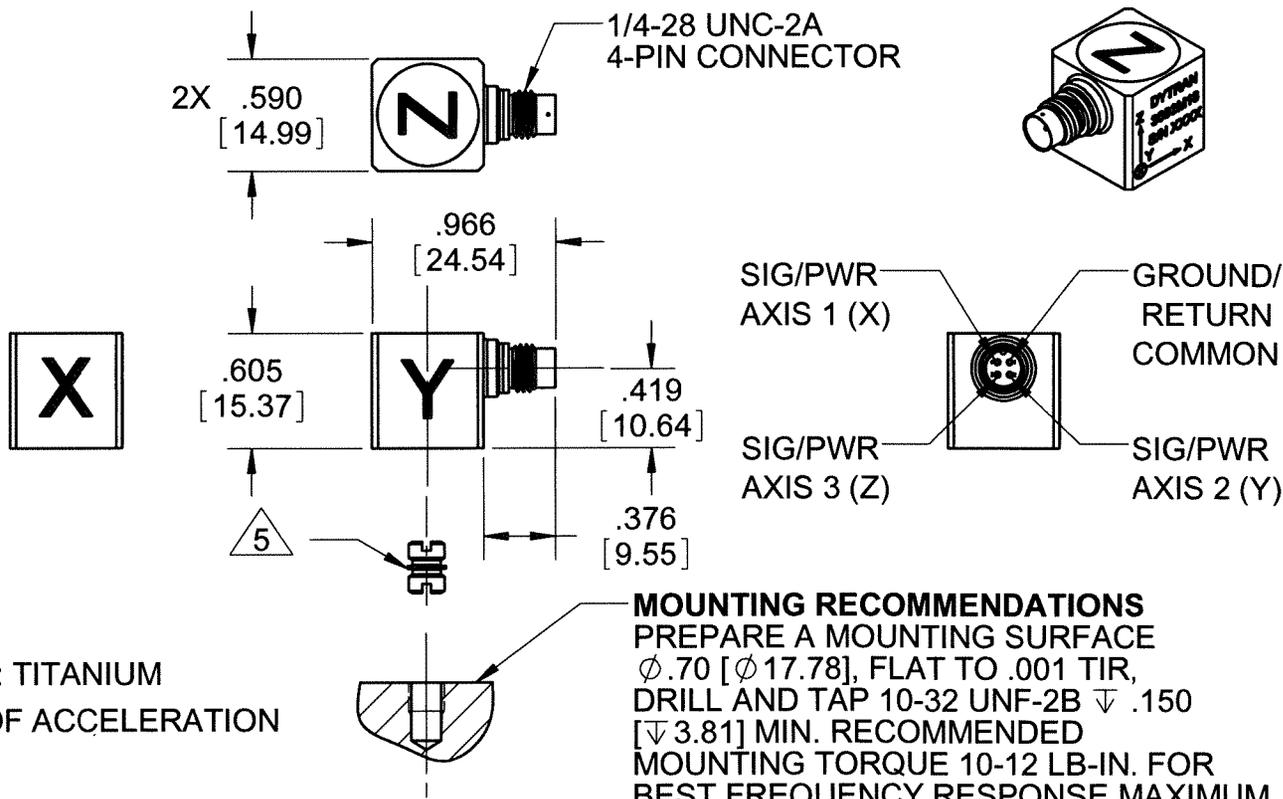


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5783	SEE ECN	JS 02/16/09	DV	ANS
C	15119	UPDATED WEIGHT, CONNECTOR DIMENSIONS.	KG 06/07/19	ANS	LN



5 MODEL 6200 (SUPPLIED)

4 DELETED

- 3. HOUSING/CONNECTOR MATERIAL: TITANIUM
- 2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
- 1. WEIGHT 15 GRAMS, MAX.

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

CONTRACT NO.



MASTER ONLY IF IN RED
 Chatsworth, CA

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

APPROVALS		DATE
ORIG	JS	05/12/08
CHK	CES	05/21/08
APP	DV	05/21/08
APP		

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

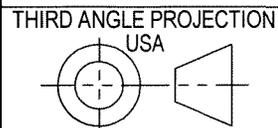
UNLESS OTHERWISE SPECIFIED:
 INTERPRET DIM & TOL PER
 ASME Y14.5M - 1994.
 REMOVE BURRS.
 COUNTERSINK INTERNAL THDS
 90° TO MAJOR DIA.
 CHAM EXT THDS 45° TO MINOR DIA.
 THD LENGTHS AND DEPTHS ARE FOR
 MIN FULL THDS.
 THDS PER MIL-S-7742.
 DIMENSIONS APPLY AFTER FINISHING.

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

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.

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MODEL NUMBER 3093M18	PERFORMANCE SPECIFICATION	DOC NO.
		PS3093M18
	Accelerometer, Triaxial, IEPE	REV H, ECN 15119, 06/07/19



- TEDS FEATURE
- HERMETICALLY SEALED
- STUD MOUNTED

	ENGLISH		SI		
PHYSICAL					
Weight	0.525	oz	15.0	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		
	Material: Ti-6 AL-4V		Material: Ti-6 AL-4V		
Sensing Element	Isolation: Case Isolated		Isolation: Case Isolated		
	Material: Ceramic		Material: Ceramic		
	Mode: Shear		Mode: 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	0.0015	Grms	0.015	m/s ² rms	
Spectral Noise	1Hz	90	μGrms/sqr(Hz)	883	μm/s ² rms/sqr(Hz)
	10Hz	40	μGrms/sqr(Hz)	392	μm/s ² rms/sqr(Hz)
	100Hz	5	μGrms/sqr(Hz)	49	μm/s ² rms/sqr(Hz)
	1000Hz	3	μGrms/sqr(Hz)	29	μm/s ² rms/sqr(Hz)
	10000Hz	2	μGrms/sqr(Hz)	19.6	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	
Electrical Isolation, Min.	10	GΩ	10	GΩ	
ENVIRONMENTAL					
Shock Max	5000	g pk	49050	m/s ²	
Vibration Max	3000	g pk	29430	m/s ²	
Temperature Range (<3% Deviation)	+50 to +100	°F	+10 to +38	°C	
Operating Temperature	-60 to +250	°F	-51 to +121	°C	
TEDS Operating Temperature	-40 to +185	°F	-40 to +85	°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 Feature	IEEE 1451.4		IEEE 1451.4		

This family also includes:

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

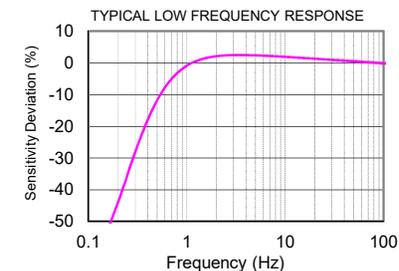
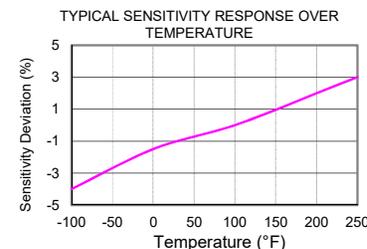
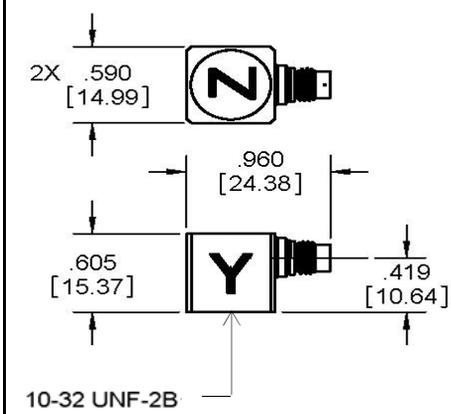
Please, refer to the performance specifications of the products in this family for detailed description

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-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
- [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 127-3093M18 for more information.



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