

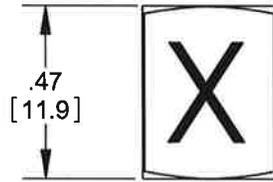
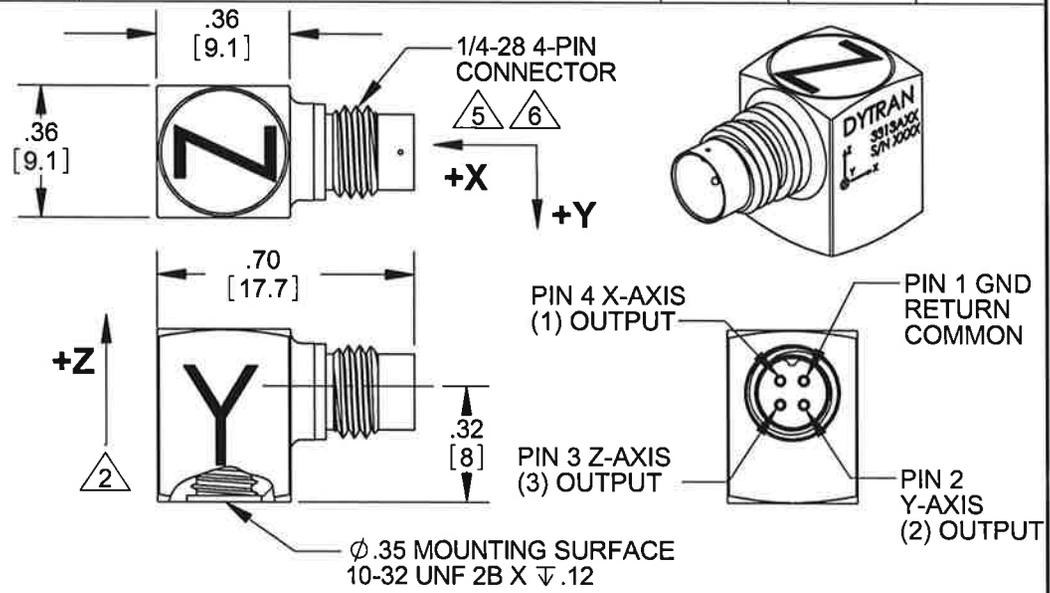
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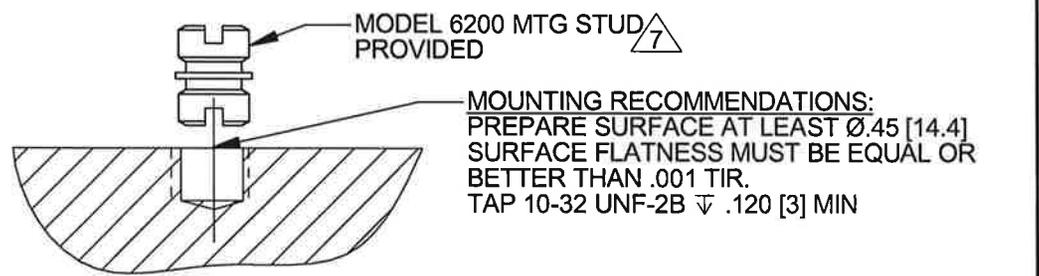
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	13192	NOTE 6: IS:...DYTRAN 6967AXX, WAS...DYTRAN 6811AXX	EM 12/21/16	LW	AS

MODEL	SENSITIVITY	OPERATING TEMPERATURE
3313A1	1 mV/g	-60° TO 250° F
3313A2	5 mV/g	-60° TO 250° F
3313A3	10 mV/g	-60° TO 250° F
3313A1H	1 mV/g	-60° TO 325° F
3313A2H	5 mV/g	-60° TO 325° F
3313A3H	10 mV/g	-60° TO 325° F
3313A4	5 mV/g	-320° TO 250° F



- 7 RECOMMENDED MOUNTING TORQUE 6-8 lb-in.
 - 6 3313AXH MATES WITH DYTRAN 6967AXX CABLE (XX= LENGTH IN FEET)
 - 5 3313AX MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX= LENGTH IN FEET)
 - 4. SENSITIVITY: SEE CHART
 - 3. WEIGHT: 4 GRAMS APPROX.
 - 2 ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
 - 1. MATERIAL: TITANIUM ALLOY
- NOTES: UNLESS OTHERWISE SPECIFIED



USED ON	NEXT ASSY	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.
APPLICATION		
THIRD ANGLE PROJECTION USA		

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 ± 0.10 .XX ± 0.25		
MATERIAL		
FINISH		
DO NOT SCALE DRAWING		

CONTRACT NO.		
APPROVALS		
ORIG	JS	06/04/10
CHK	LW	1/3/17
APP		
APP		

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 DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, 3313A SERIES**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3313A	C
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

Model Number 3313A1	PERFORMANCE SPECIFICATION	DOC NO PS3313A1
	TRIAIXIAL IEPE ACCELEROMETER	REV F , ECN 15539, 01/15/20



- WEIGHT ONLY 4 GRAMS
- EXCELLENT LINEARITY
- TEMPERATURE STABILITY
- HERMETICALLY SEALED

PHYSICAL

	ENGLISH		SI	
Weight, Max	0.14	oz	4.1	grams
Connector	1/4-28, 4 Pin		1/4-28, 4 Pin	
Mounting Provision	10-32	Tapped Hole	10-32	
Material : Housing / Connector	Titanium		Titanium	
Element Style	Quartz Planar Shear		Quartz Planar Shear	

PERFORMANCE

	ENGLISH		SI	
Sensitivity, ±10% [1]	1	mV/g	0.10	mV/m/s ²
Range F.S (each axis)	±5000	g	±49050	m/s ²
Frequency Response, ± 15%	1.2 to 10000	Hz	1.2 to 10000	Hz
Equivalent Natural Frequency	> 30	kHz	> 30	kHz
Equivalent Electrical Noise [5]	0.10	grms	0.98	m/s ² rms
Linearity [2]	± 1	% F.S.	± 1	% F.S.
Maximum Transverse sensitivity	5	%	5	%
Signal Polarity [3]	Positive		Positive	

ENVIRONMENTAL

	ENGLISH		SI	
Maximum Vibration	± 7000	g's, peak	± 68670	m/s ² , peak
Maximum Shock	±5000	g's, peak	±49050	m/s ² , peak
Temperature Range	-60 to +250	°F	-51 to +121	°C
Seal	Hermetic		Hermetic	
Base Strain	0.006	g/με	0.06	m/s ² /με

Electrical

	ENGLISH		SI	
Supply Current Range	2 to 20	mA	2 to 20	mA
Compliance (Supply) Voltage Range	+ 18 to +30	Volts	+ 18 to +30	Volts
Output Impedence, Typ	100	Ω	100	Ω
Bias Voltage	+7 to +9	VDC	+7 to +9	VDC
Discharge Time Constant	0.2 to 1.0	Sec	0.2 to 1.0	Sec
Ground Isolation	Case Ground		Case Ground	

This family also includes:

Model	Sensitivity (mV/g)	Range F.S (g)	Time Constant (sec)	Operating Temperature (°F)
3313A2	5	± 1000	0.2 to 1.0	-60 to +250
3313A3	10	± 500	0.2 to 1.0	-60 to +250

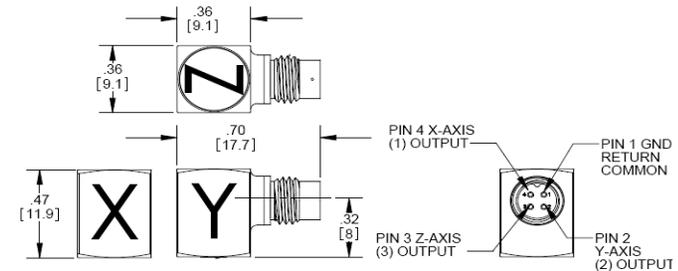
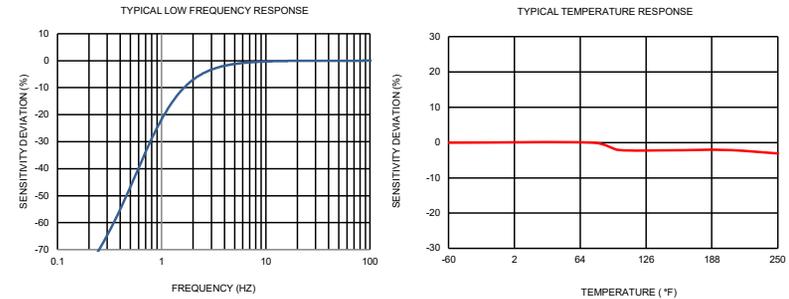
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 mounting stud

Notes:

- [1] Measure at 100Hz, 1 grms per ISA RP 37.2
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] For motion in direction of arrows on housing.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [5] Typical, not to exceed .10 Grms [.98 m/s² rms]
- [6] Mates with Dytran 6811AXX or 6824AXX cable (XX = Length in feet)
- [7] In the interest of constant product improvement, we reserve the right to change 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. Refer to 127-3313A for more information.



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