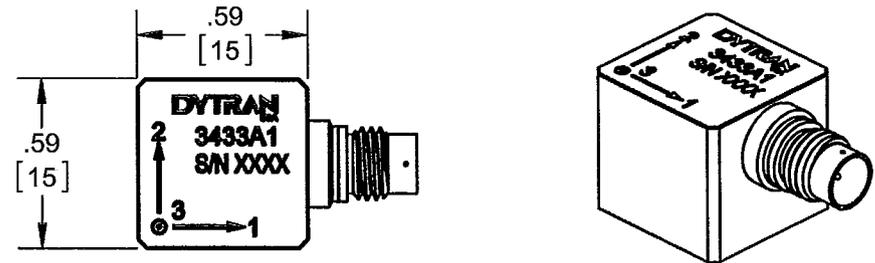
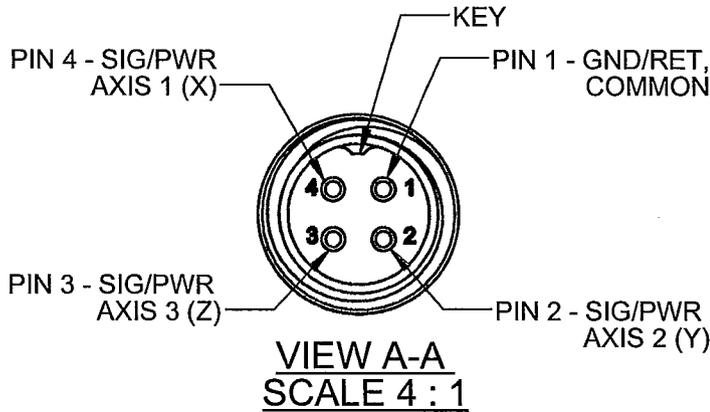


PROPRIETARY AND CONFIDENTIAL

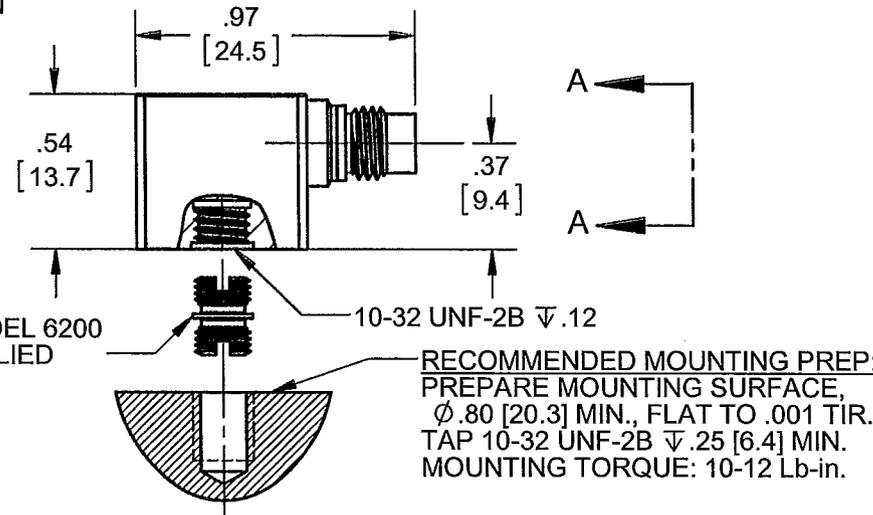
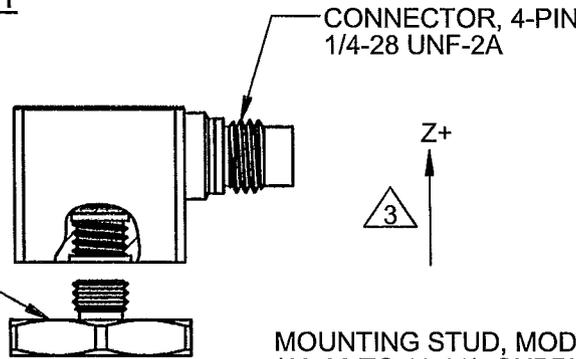
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9541	INITIAL RELEASE	LN 01/23/13	EM	JW



ALTERNATE MOUNTING METHOD:
THREAD ADAPTOR,
MODEL 6213 (NOT SUPPLIED).
MOUNTING TORQUE: 10-15 Lb-in.
USE ADHESIVE TO MOUNT TO
TEST SURFACE.
(NO 10-32 PORT NEEDED)



5. WEIGHT: 14 GRAMS, MAX.
4. MATERIAL: Ti-6AL-4V.
3. ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.
2. SIG/PWR GROUND IS ISOLATED FROM CASE, 10 MEGOHMS, MIN.
1. ENVIRONMENTAL SEAL: HERMETIC

NOTES: UNLESS OTHERWISE SPECIFIED

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 ± 0.10 .XX ± 0.25	MATERIAL	FINISH	DO NOT SCALE DRAWING
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CONTRACT NO.	
APPROVALS	DATE
ORIG	LN
CHK	EM
APP	JW
DATE	09/13/12
DATE	1/21/13
DATE	1/24/13

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

TITLE: **OUTLINE/INSTALLATION DWG, TRIAXIAL ACCELEROMETER, 5mV/G, LOW BIAS, MODEL 3433A1**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3433A1	A
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1	

Model Number
3433A1

PERFORMANCE SPECIFICATIONS

DOC NO
PS3433A1

TRIAxIAL IEPE ACCELEROMETER

REV A, ECN 9541, 01/18/13



- LOW BIAS VOLTAGE
- HERMETICALLY SEALED

PHYSICAL

Weight, Max. 4 Pin
Connector
Material, Housing/Connector
Sensing Material

ENGLISH		SI	
0.5	oz	14	grams
1/4-28 UNF-2A		1/4-28 UNF-2A	
Titanium		Titanium	
Ceramic		Ceramic	

PERFORMANCE

Sensitivity, ±10% [1]
Range for ± 1.5 Volts Output
Frequency Response, ±10%
Resonant Frequency
Broad Band Resolution
Linearity [2]
Maximum Transverse Sensitivity
Base Strain Sensitivity @ 250µε

5	mV/g	0.5	mV/m/s ²
300	g	2943	m/s ²
1 to 3500	Hz	1 to 3500	Hz
> 20	kHz	> 20	kHz
0.01	Grms	0.10	m/s ² rms
±1	% F.S.	±1	% F.S.
5	%	5	%
0.008	g/µε	0.08	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Coefficient of Thermal Sensitivity
Seal

300	Gpeak	2943	m/s ² peak
5000	Gpeak	49050	m/s ² peak
-60 to 250	°F	-51 to 121	°C
≤ 0.08	%/°F	≤ 0.14	%/°C
Hermetic		Hermetic	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Warm up time (to 10% of Bias)
Output Impedance
Bias Voltage
Discharge Time Constant
Electrical Isolation

0.3 to 0.7	mA	0.3 to 0.7	mA
6 to 9	Volts	6 to 9	Volts
<30	sec	<30	sec
<200	Ω	<200	Ω
1.5 to 3.0	VDC	1.5 to 3.0	VDC
0.3 to 1.5	Sec	0.3 to 1.5	Sec
10	GΩ,min	10	GΩ,min

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

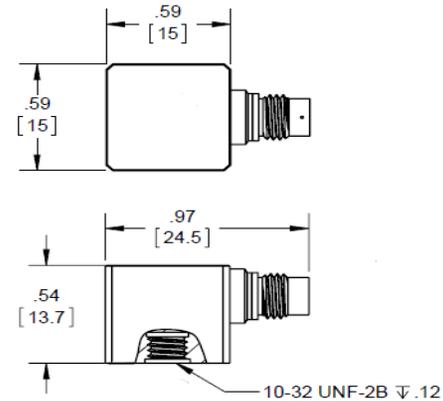
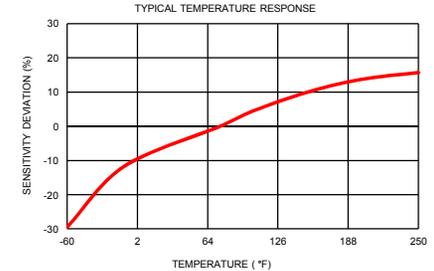
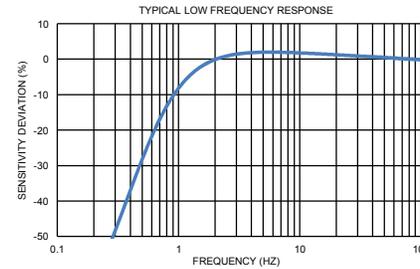
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud, Dytran model 6200 (10-32 UNF-2A to 10-32 UNF-2A)

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 0.7 mA MAX. To do so will destroy the IC charge amplifier.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3433A1 or more information.



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