## PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION DYTRAN INSTRUMENTS.INC. IS PROHIBITE **OPERATIN** MODEL SENSITIVITY TEMPERATI 3313A1 1mV/a -60° TO 250

5mV/g

10 mV/g

1mV/a

5mV/q

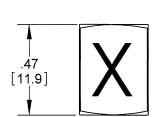
10mV/a

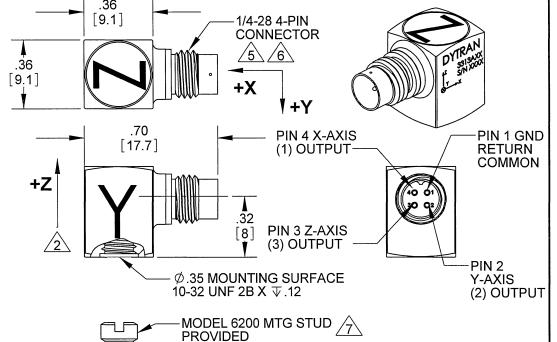
C. IS PROHIBITED	
OPERATING TEMPERATURE	
-60° TO 250° F	
-60° TO 250° F	
-60° TO 250° F	
-60° TO 325° F	

-60° TO 325° F

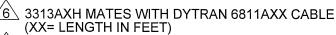
-60° TO 325° F

		REVISIONS			
REV.	ECN	DESCRIPTION	BY/DATE	СНК	APPR
А	6660	INITIAL RELEASE	JS 06/15/10	ANS	8





RECOMMENDED MOUNTING TORQUE 6-8 lb-in.



3313AX MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX= LENGTH IN FEET)

SENSITIVITY: SEE CHART

WEIGHT: 4 GRAMS APPROX.

ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT

1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED

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. USED ON NEXT ASSY THDS PER MIL-S-7742. APPLICATION DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. THIRD ANGLE PROJECTION 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 [1]** ARE IN MILLIMETERS TOLERANCES ARE: METRIC ANGLES **INCHES** 

.X ± 0.8 ± 1°

.XX ± .03

.XXX+.010 .XX +0.25 **APPROVALS** DATE MATERIAL ORIG 06/04/10 JS 7/13/10 ANS CHK FINISH DU APP DO NOT SCALE DRAWING APP

CONTRACT NO.

INSTRUMENTS, INC.

PREPARE SURFACE AT LEAST Ø.45 [14.4]

SURFACE FLATNESS MUST BE EQUAL OR

TITLE:

**OUTLINE/INSTALLATION DRAWING 3313A** 

MOUNTING RECOMMENDATIONS:

TAP 10-32UNF-2B ▼ .120 [3] MIN

BETTER THAN .001 TIR.

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

3313A2

3313A3

3313A1H

3313A2H

3313A3H

Model Number DOC NO PERFORMANCE SPECIFICATION 3313A3H PS3313A3H TRIAXIAL IEPE ACCLEROMETER REV C . ECN 8872. 07/16/12

SI



A WEIGHT ONLY 4 CDAMS

• WEIGHT ONLY 4 GRAWS	Model	Sensitivity (mv/g)	Range F.S (g)	Time Constant (sec)	Operating remperature (*F)
EXCELLENT LINEARITY	3313A1H	1	± 5000	0.2 to 1.0	-60 to +325
TEMPERATURE STABILITY	3313A2H	5	± 1000	0.2 to 1.0	-60 to +325
HERMETICALLY SEALED					
	Please, refer	to the performance sp	pecifications of the products	in this family for detailed	I description

**ENGLISH** 

**PHYSICAL** Weight Connector

Mounting Provision Tapped Hole

Material: Housing / Connector

Element Style

_	_	ь	-	_	ь	M		ĸ.	^	_	
г	ᆮ	п	г	v	п	IV	м	пA	u	_	

Sensitivity, ±10% [1] Range F.S (each axis)

Frequency Response, ± 15% Equivalent Natural Frequency

Equivalent Electrical Noise

Linearity [2]

Maximum Transverse sensitivity

Signal Polarity [3]

## **ENVIRONMENTAL**

Maximum Vibration Maximum Shock

Temperature Range Seal

Base Strain

## Electrical

Supply Current Range

Complaince (Supply) Voltage Range

Output Impedence, Typ

Bias Voltage

Discharge Tme Constant, Nom

Gorund Isolation

	_	
0.14	OZ	4
1/4-28. 4 - Pin		1/4-28. 4 - Pin
10-32		10-32
Titanium		Titanium
Qauartz Planar Shear		Qauartz Planar Shear
	•	

g/με

10	mV/g
±500	g
1.2 to 10000	Hz
> 30	kHz
0.007	grms
± 1	% F.S.
5	%
Positive	

	Positive	
g's,peak	± 5886	m/s², pe
g's,peak	± 49050	m/s², pe
°F	-51 to +162	°C

Hermetic

0.06

1.02

±4905

1.2 to 10000

> 30

0.07

± 1

	_
2 to 20	mA
+ 18 to +30	Volts
100	Ω
+7 to +9	VDC
0.2 to 1.0	Sec
Case Ground	
	_

± 600

±5000

-60 to +325

Hermetic

0.006

mA
Volts
Ω
VDC
Sec

Sunnlied	Accessories.	

1) Accredited calibration certificate (ISO 17025)

Canaitinit ( /== ) //= )

2) Model 6160 mounting stud

## Notes:

grams

mV/m/s2

m/s<sup>2</sup>

Hz

kHz

% F.S.

 $m/s^2/\mu\epsilon$ 

- [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 limting,20 mA MAX.To do so will destroy the
- IC charge amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [6] Mates with Dytran 6811AXX (XX = Length in feet)

