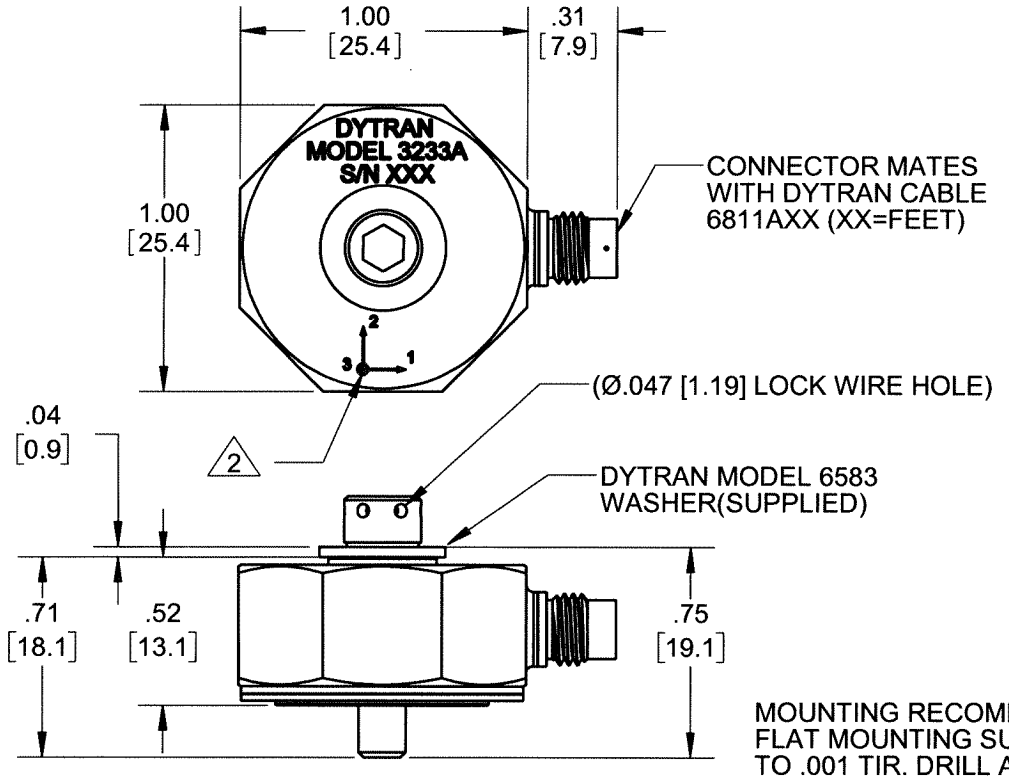
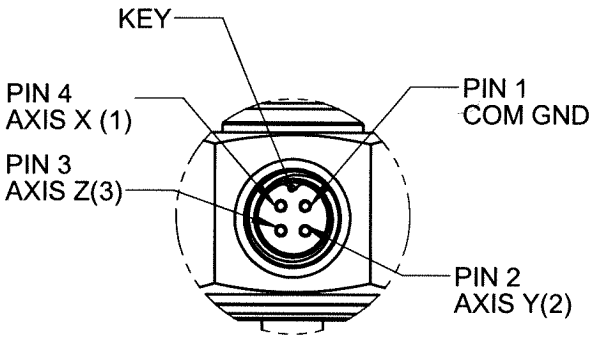
PROPRIETARY AND CONFIDENTIAL

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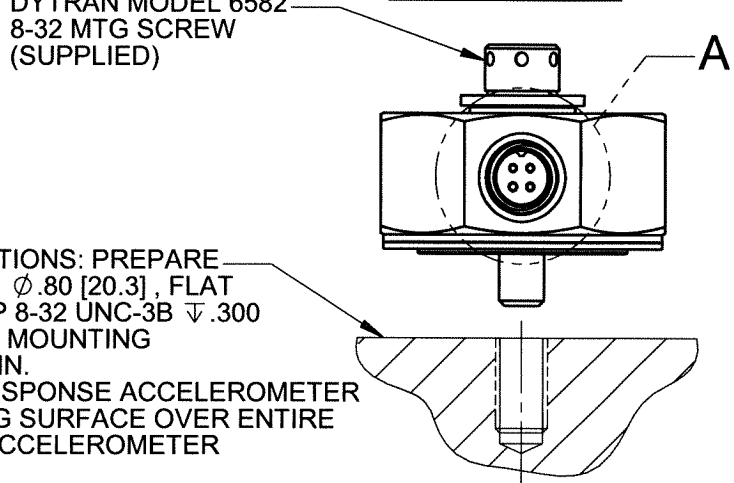
REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	10584	SEE ECN	RA 08/16/18	MH	





DETAIL A
SCALE 2:1



3. WEIGHT: 30 GRAMS MAX

2 ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

1. MATERIAL: TITANIUM ALLOY

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.
63
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±.010	.XX ±0.25	

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	PML	10/25/03
CHK	DL	8/15/18
APP	PML	06/22/04
APP		

MASTER
ONLY IF IN RED

DYTRAN INSTRUMENTS, INC.
Chatsworth, CA

TITLE:
OUTLINE/INSTALLATION DRAWING MODEL 3233A

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3233A	B

SCALE: NONE | SOLIDWORKS | SHEET 1 OF 1

MODEL NUMBER 3233A	PERFORMANCE SPECIFICATION	DOC NO. PS3233A
	ACCELEROMETER, TRIAXIAL, IEPE	REV F, ECN 15507, 01/10/20



- **HERMETICALLY SEALED**
- **BASE ISOLATED**
- **8-32 MOUNTING PROVISION**

		ENGLISH		SI	
PHYSICAL					
Weight, Max		1.05	oz	30	grams
Mounting		8-32 Screw		8-32 Screw	
Connector Type [1]		4-Pin		4-Pin	
Material, Case/ Connector		Titanium Alloy		Titanium Alloy	
PERFORMANCE					
Sensitivity, (±10%) [2]		1000	mV/g	102	mV/ m/s^2
Range, Full Scale (Each Axis)		5	± g pk	49.1	± m/s^2 pk
Frequency Range Axis 1 & 2, (±10%)		0.3 to 3000	Hz	0.3 to 3000	Hz
Frequency Range Axis 3, (±10%)		0.3 to 6000	Hz	0.3 to 6000	Hz
Element Natural Frequency		>20	kHz	>20	kHz
Equivalent Electrical Noise		0.00008	g rms	0.00078	m/s^2 rms
Spectral Noise	1Hz	12	µg rms / √(Hz)	118	µm/s^2 rms / √(Hz)
	10Hz	4	µg rms / √(Hz)	39	µm/s^2 rms / √(Hz)
	100Hz	1.2	µg rms / √(Hz)	12	µm/s^2 rms / √(Hz)
	1000Hz	0.5	µg rms / √(Hz)	5	µm/s^2 rms / √(Hz)
Linearity [3]		1	% F.S.	1	% F.S.
Transverse Sensitivity, Max		5	%	5	%
ENVIRONMENTAL					
Vibration Max		500	± g pk	4905	± m/s^2 pk
Shock Max		5000	± g pk	49050	± m/s^2 pk
Operating Temperature		-60 to +200	°F	-51 to +93	°C
Seal		Hermetic		Hermetic	
ELECTRICAL					
Supply Current Range [4]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range (Each Axis)		+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.		100	Ω	100	Ω
Output Bias Voltage		+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant		0.9 to 2.0	Sec	0.9 to 2.0	Sec
Ground Isolation, Min. [5]		10	MΩ	10	MΩ

This family also includes:

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

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

Supplied Accessories:

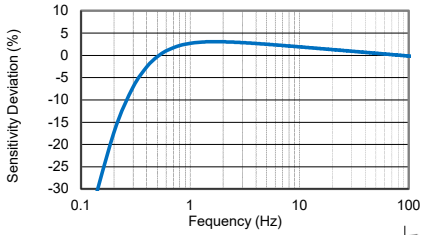
1) Accredited Calibration Certificate (ISO 17025)
2) Washer 6583 and Mounting Screw 6582

Notes:

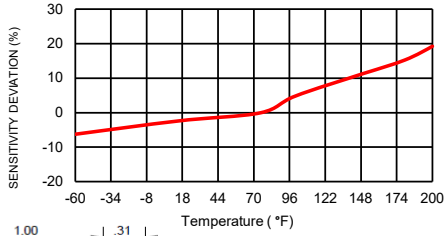
[1] Connector mates with Dytran Cable Assy. Model 6811AXX. (XX = Length in Feet)
[2] Measured At 100 Hz, 1 Grms per ISA RP 37.2
[3] Measured using zero-based best straight-line method, % of F.S. or any lesser range.
[4] Do not apply power to this device without current limiting, 20mA Max, To do so will destroy the integral IC amplifier
[5] Case grounded to signal ground. Case isolated from mounting surface
[6] In the interest of constant product improvement, we reserve the rights to change the specifications without notice.

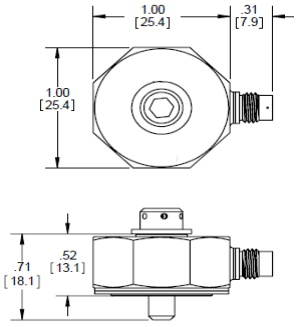
It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

TYPICAL LOW FREQUENCY RESPONSE



TYPICAL TEMPERATURE RESPONSE





Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3233A for more information.

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