

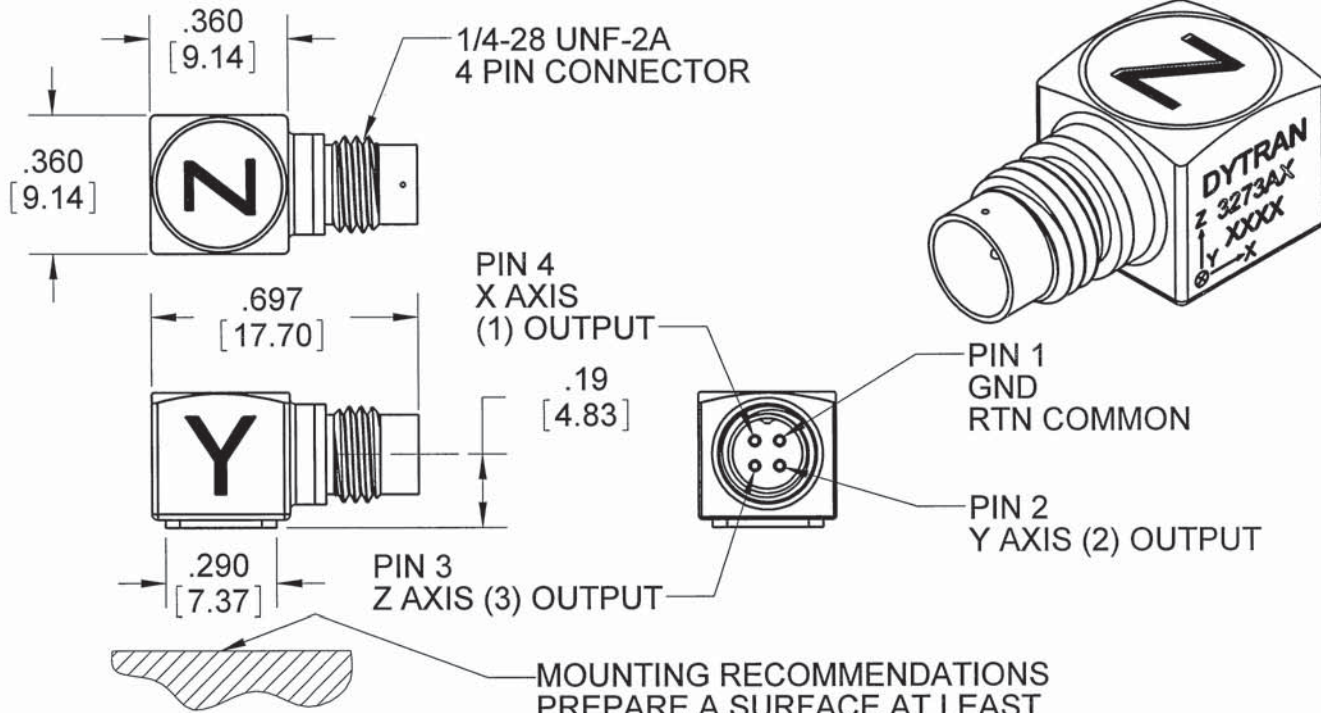
PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
D	7027	ADDED NOTE 4	JS 08/18/10	<i>RA</i>	<i>JS</i>

MODEL	SENSITIVITY
3273A1	10mV/G
3273A2	100mV/G
3273A4	50mV/G



MOUNTING RECOMMENDATIONS
 PREPARE A SURFACE AT LEAST .300 BY .300. SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .0001 TIR.
 USE ONE DROP OF CYANOACRYLATE TO MOUNT THE ACCELEROMETER.

4. TO MATE CABLE TO CONNECTOR INSERT PLUG AND ENGAGE KEYWAY BEFORE TURNING COUPLING NUT.
 3. HOUSING/CONNECTOR MATERIAL: TITANIUM
 2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT.
 1. WEIGHT: 3.0 GRAMS
- 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. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING.	
SERIES	USED ON
APPLICATION	
THIRD ANGLE PROJECTION USA	
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	DO NOT SCALE DRAWING
FINISH	

CONTRACT NO.	
APPROVALS	
ORIG	DATE
CHK	9/30/08
APP	10/17/08
APP	10/17/08

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

TITLE: **OUTLINE/INSTALLATION DRAWING, 3273A SERIES**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3273A	D
SCALE: 4:1		SOLIDWORKS	SHEET 1 OF 1

Model Number 3273A2	PERFORMANCE SPECIFICATION	DOC NO PS3273A2
	Accelerometer, Triaxial, IEPE	REV J, ECN 7336, 01/26/11



Actual Size

- **ULTRA LOW FREQUENCY RESPONSE**
- **ULTRA LOW NOISE LEVEL**
- **WEIGHT ONLY 2.7 GRAMS**

PHYSICAL

	ENGLISH		SI	
Weight	0.096	oz	2.7	grams
Mounting	Adhesive		Adhesive	
Connector [1]	Type: 4-pin		Type: 4-pin	
	Material: Ti-6 AL-4V		Material: Ti-6 AL-4V	
Housing	Material: Ti-6 AL-4V		Material: Ti-6 AL-4V	
	Isolation: Case ground		Isolation: Case ground	
Sensing Element	Material: Ceramic		Material: Ceramic	
	Mode: Shear		Mode: Shear	

PERFORMANCE

	ENGLISH		SI	
Sensitivity, ±10%[2]	100	mV/g	10.19	m/s ²
Acceleration Range	+/-50	Gpeak	+/-491	m/s ² peak
Frequency Range, ±5%	.7 - 3000	Hz	.7 - 3000	Hz
Frequency Range, ±15%	.42 - 10,000	Hz	.42 - 10,000	Hz
Phase Response, ±5°	4.0 to 3000	Hz	4.0 to 3000	Hz
Resonance Frequency	>24	kHz	>24	kHz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	6	%	6	%
Noise floor, Max	0.00095	Grms	0.009	m/s ² rms
Spectral Noise				
	1Hz	207 μGrms/sqr(Hz)	2031	μm/s ² rms/sqr(Hz)
	10Hz	52 μGrms/sqr(Hz)	510	μm/s ² rms/sqr(Hz)
	100Hz	32 μGrms/sqr(Hz)	314	μm/s ² rms/sqr(Hz)
	1000Hz	11 μGrms/sqr(Hz)	108	μm/s ² rms/sqr(Hz)
	10000Hz	8 μGrms/sqr(Hz)	78	μm/s ² rms/sqr(Hz)

ELECTRICAL

	ENGLISH		SI	
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 to +13	VDC	+11 to +13	VDC
Discharge Time Constant	0.8 to 1.5	sec	0.8 to 1.5	sec

ENVIRONMENTAL

	ENGLISH		SI	
Shock max	5000	g pk	49050	m/s ²
Vibration Max	3000	g pk	29430	m/s ²
Operating Temperature	-60 to +165	°F	-51 to +74	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.00007	g/Gauss	0.00069	m/s ² /Gauss
Base Strain Sensitivity	0.02	g/με	0.1962	m/s ² /με

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3273A1	10	500	0.003	-60 to +250	0.8 - 1.2
3273A4	50	100	0.002	-60 to +200	0.8 - 1.2

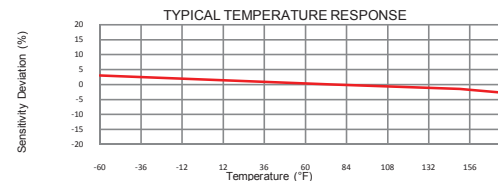
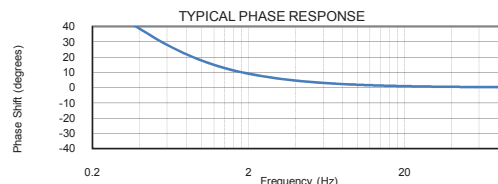
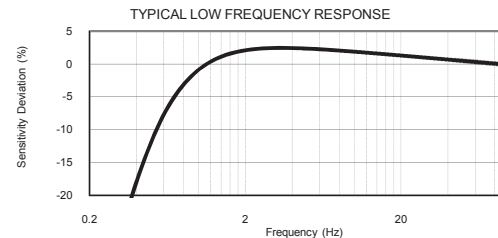
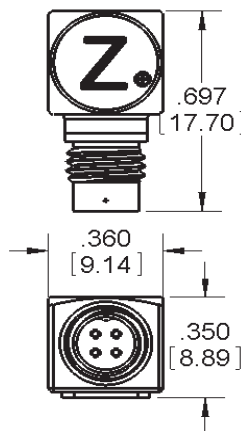
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) 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, 5 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 right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3273A for more information.



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