

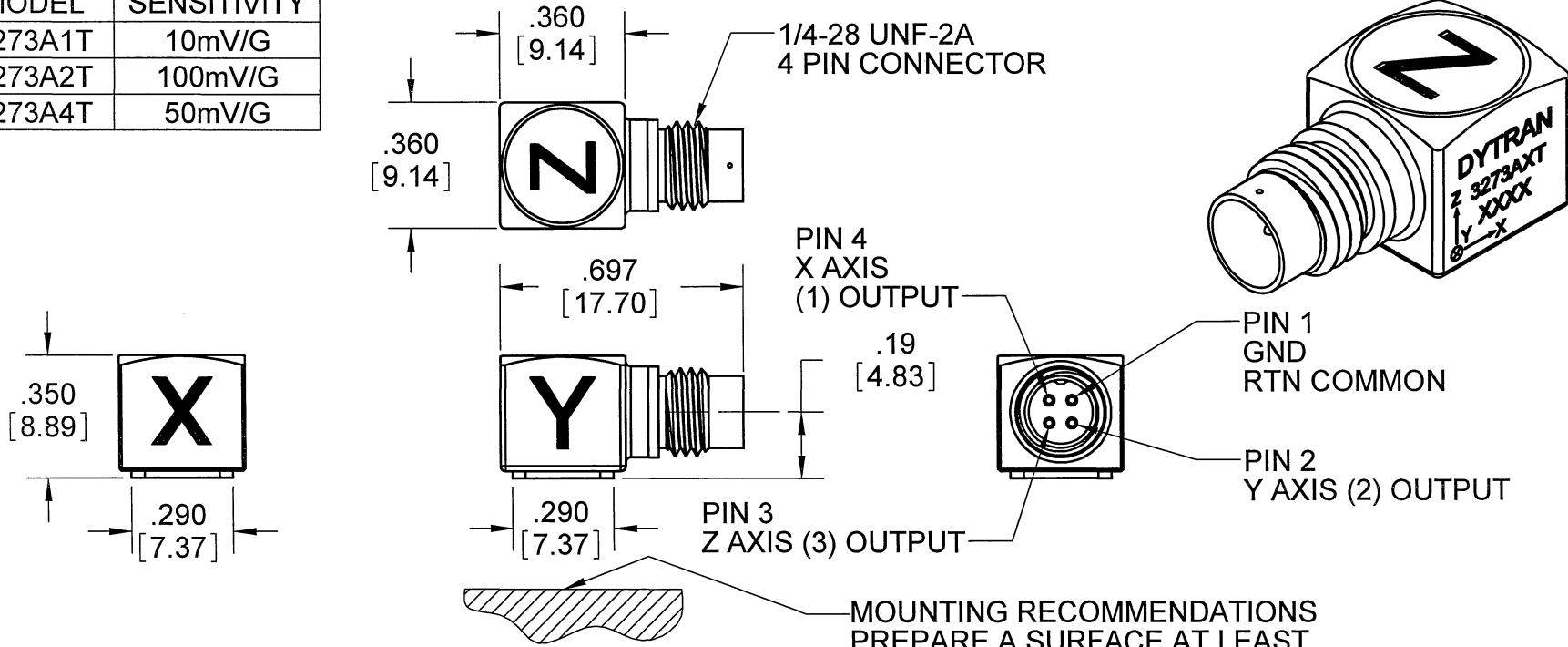
PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	7027	ADDED NOTE 4	JS 08/18/10		

MODEL	SENSITIVITY
3273A1T	10mV/G
3273A2T	100mV/G
3273A4T	50mV/G



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 APPROXIMATELY
- NOTES: UNLESS OTHERWISE SPECIFIED.

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.

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.	

3273AT SERIES

USED ON	NEXT ASSY
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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 ± .010 XX ± 0.25	
MATERIAL	
FINISH	
DO NOT SCALE DRAWING	

CONTRACT NO.		
APPROVALS		DATE
ORIG	R.A.	05/05/09
CHK	EP	05/11/09
APP	DV	05/12/09
APP		

		MASTER ONLY IF IN RED Chatsworth, CA	
TITLE: OUTLINE/INSTALLATION DRAWING, MODEL 3273AT SERIES			
SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3273AT	B
SCALE: 4:1		SOLIDWORKS	SHEET 1 OF 1

3273A1T

REV G, ECN 7336, 01/26/11

PERFORMANCE SPECIFICATION

Accelerometer, Triaxial, IEPE



Actual Size

- ULTRA LOW FREQUENCY RESPONSE
- ULTRA LOW NOISE LEVEL
- WEIGHT ONLY 3 GRAMS

PHYSICAL

	ENGLISH		SI	
Weight	0.1	oz	3.0	grams
Mounting	Adhesive		Adhesive	
Connector [1]	4-pin		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]	10	mV/g	1.02	mV/m/s ²
Acceleration Range	500	Gpeak	4905	m/s ² peak
Frequency Range, ±15%	.3-10,000	Hz	.3-10,000	Hz
Frequency Range, ± 5%	.5 - 3000	Hz	.5 - 3000	Hz
Resonance Frequency	>24	kHz	>24	kHz
Phase Response, ± 5°	2.3 to 3000	Hz	2.3 to 3000	Hz
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	5	%	5	%
Noise floor, Max	0.003	Grms	0.029	m/s ² rms
Spectral Noise	1Hz	629 μGrms/sqr(Hz)	6166	μm/s ² rms/sqr(Hz)
	10Hz	110 μGrms/sqr(Hz)	1074	μm/s ² rms/sqr(Hz)
	100Hz	67 μGrms/sqr(Hz)	657	μm/s ² rms/sqr(Hz)
	1000Hz	31 μGrms/sqr(Hz)	304	μm/s ² rms/sqr(Hz)
	10000Hz	16 μGrms/sqr(Hz)	157	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 - 13	VDC	11 - 13	VDC
Discharge Time Constant.	0.8 to 1.2	sec	0.8 to 1.2	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 +225	°F	-51 to +107	°C
TEDS Operation Temperature	-40 to +185	°F	-40 to +85	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	0.000013	g/Gauss	0.00013	m/s ² /Gauss
Base Strain Sensitivity	0.06	g/με	0.59	m/s ² /με
TEDS feature	IEEE 1451.4		IEEE 1451.4	

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3273A2T	100	50	0.00095	-60 to +165	0.5 - 1.5
3273A4T	50	100	0.002	-60 to +200	0.8 - 1.2

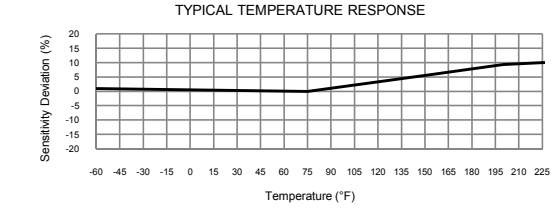
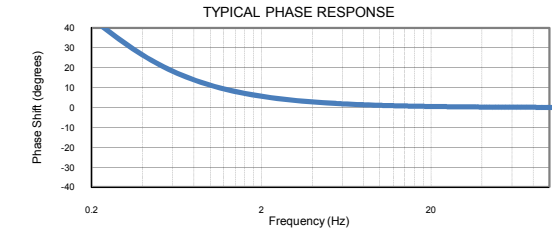
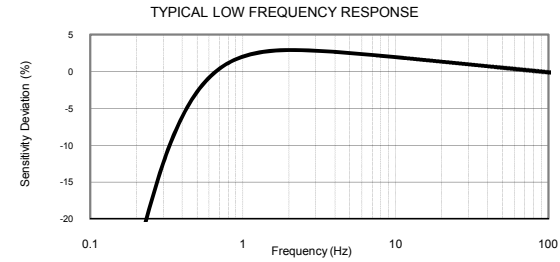
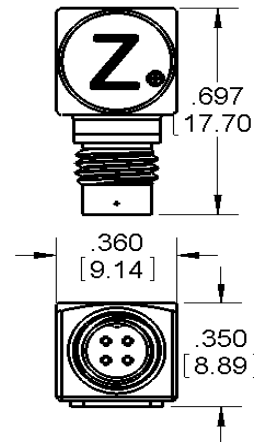
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Glass to metal Seal connector. Mates with Dytran cable model 6811AAXX or 6824AAXX (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 127-3273AT for more information.



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