

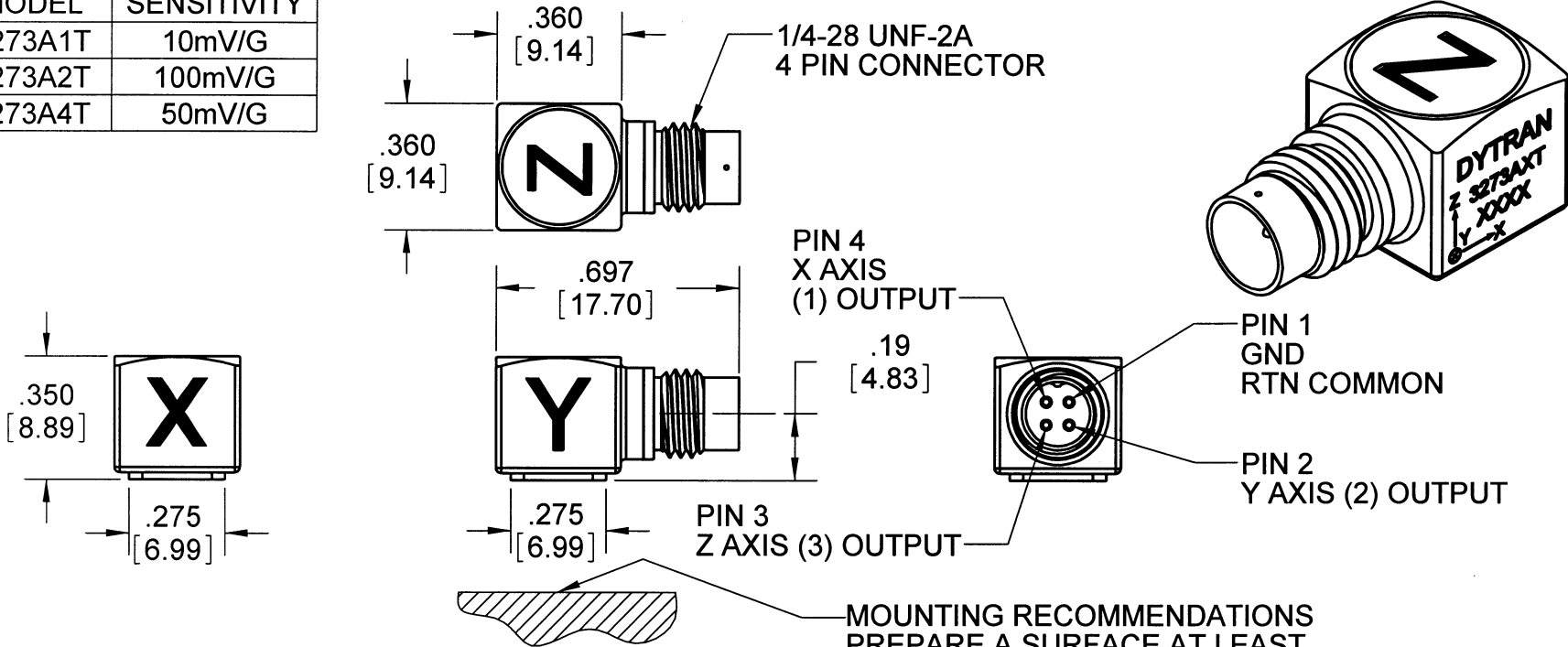
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5832	INITIAL RELEASE	RA, 03/13/09	<i>ey</i>	<i>DU</i>

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



- 3. HOUSING/CONNECTOR MATERIAL: TITANIUM
- 2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT.
- 1. WEIGHT: 3.0 GRAMS APPROXIMATELY

NOTES: UNLESS OTHERWISE SPECIFIED.

3273AT SERIES	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 ± .010 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.		
APPROVALS		DATE
ORIG	R.A.	05/05/09
CHK	<i>ey</i>	5/11/09
APP	<i>DU</i>	5/12/09
APP		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3273AT SERIES**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3273AT	A

SCALE: 4:1 SOLIDWORKS SHEET 1 OF 1

3273A1T

PERFORMANCE SPECIFICATION

REV A, ECN 5940, 05/11/09

Accelerometer, Triaxial, IEPE



Actual Size

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

ENGLISH		SI	
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PHYSICAL

		ENGLISH		SI	
Weight		0.105	oz	3.0	grams
Mounting		Adhesive		Adhesive	
Connector [1]	Type	4-pin		4-pin	
	Material	Ti-6 AL-4V		Ti-6 AL-4V	
Housing	Material	Ti-6 AL-4V		Ti-6 AL-4V	
	Isolation	Case ground		Case ground	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Shear		Shear	

PERFORMANCE

		ENGLISH		SI	
Sensitivity, +15-10% [2]		10	mV/g	1.02	mV/m/s ²
Acceleration Range		500	Gpeak	4905.00	m/s ² peak
Frequency Range, +15/-10%		.31-10,000	Hz	.31-10,000	Hz
Resonance Frequency		>24	kHz	>24	kHz
Linearity [3]		1	%F.S.	1	%F.S.
Transverse Sensitivity Max		6	%	6	%
Noise floor		0.0012	Grms	0.012	m/s ² rms
Spectral Noise	1Hz	335	μGrms/sqr(Hz)	3286	μm/s ² rms/sqr(Hz)
	10Hz	58	μGrms/sqr(Hz)	566	μm/s ² rms/sqr(Hz)
	100Hz	36	μGrms/sqr(Hz)	348	μm/s ² rms/sqr(Hz)
	1000Hz	17	μGrms/sqr(Hz)	164	μm/s ² rms/sqr(Hz)
	10000Hz	9	μGrms/sqr(Hz)	83	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 - 1.2	sec	0.8 - 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	0.000128	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	0.0008	-60 to +160	0.8 - 1.2
3273A4T	50	100	0.0009	-60 to +200	0.8 - 1.2

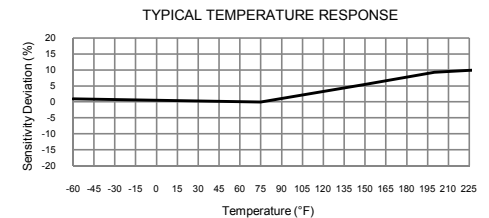
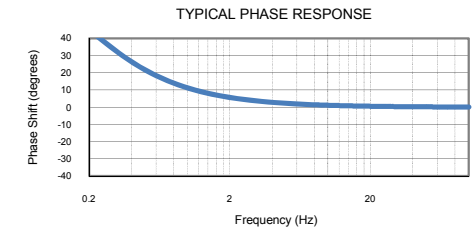
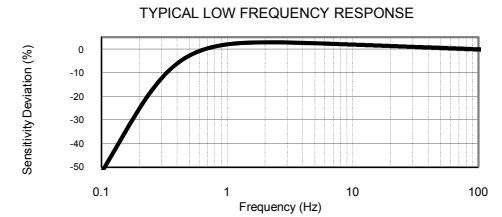
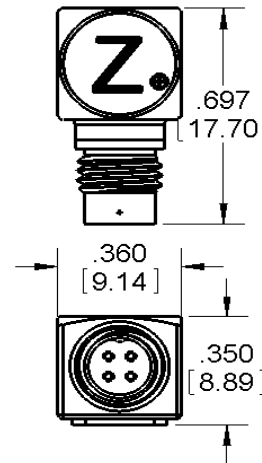
Please, refer to the performance specifications of the products in this family for detailed description

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



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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