

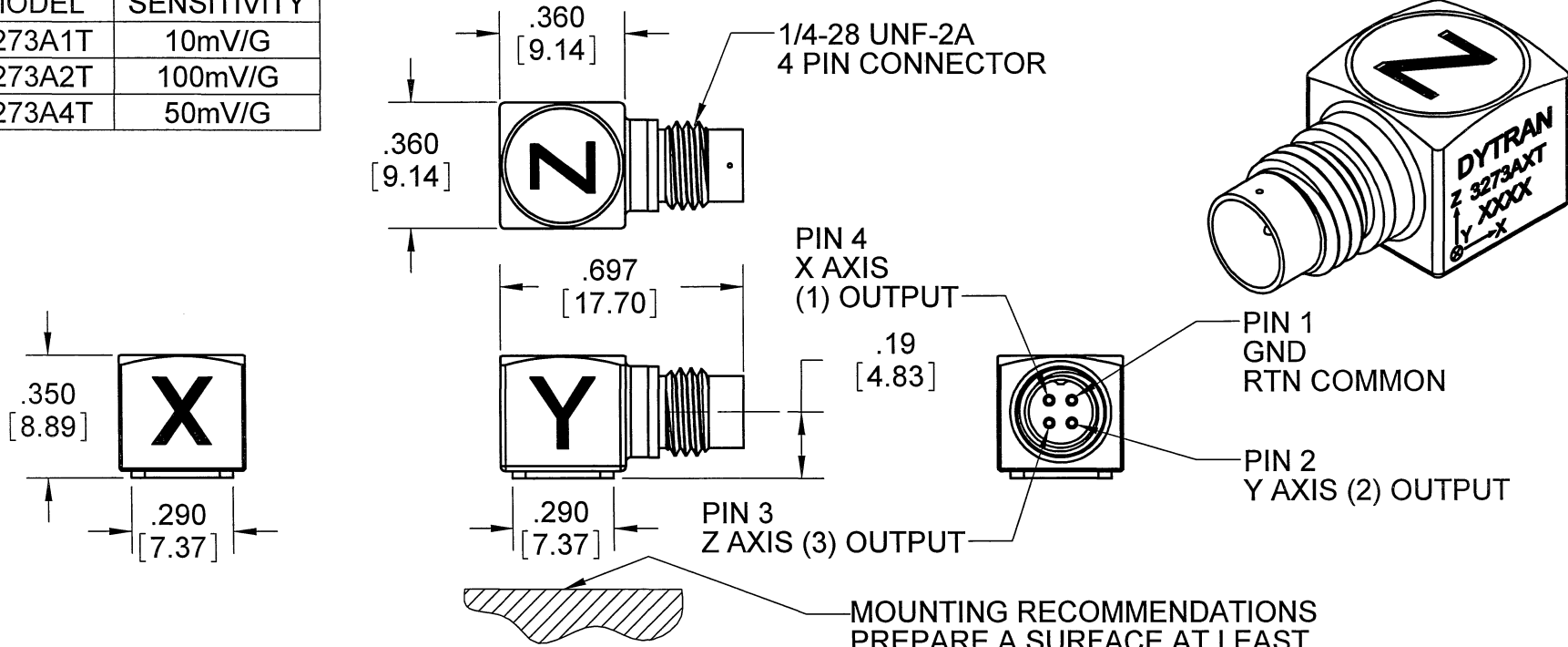
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	7027	ADDED NOTE 4	JS 08/18/10	<i>[Signature]</i>	<i>[Signature]</i>

MODEL	SENSITIVITY
3273A1T	10mV/G
3273A2T	100mV/G
3273A4T	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 APPROXIMATELY
- 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.	
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

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 ± 0.10 .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		

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	B

SCALE: 4:1 SOLIDWORKS SHEET 1 OF 1

Model Number 3273A4T	PERFORMANCE SPECIFICATION	Accelerometer, Triaxial, IEPE	DOC NO
			PS3273A4T
			REV L, ECN 15711, 04/21/20



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

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

PERFORMANCE

Sensitivity, ±10% [2]	50	mV/g	5.10	mV/m/s ²
Acceleration Range	100	Gpeak	981	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
Linearity [3]	1	%F.S.	1	%F.S.
Phase Response, ± 5°	2.3 to 3000	Hz	2.3 to 3000	Hz
Transverse Sensitivity Max	6	%	6	%
Noise floor, Max	0.002	Grms	0.020	m/s ² rms
Spectral Noise	1Hz	525	μGrms/sqr(Hz)	5150
	10Hz	101	μGrms/sqr(Hz)	991
	100Hz	50	μGrms/sqr(Hz)	491
	1000Hz	16	μGrms/sqr(Hz)	157
	10000Hz	10	μGrms/sqr(Hz)	98

ELECTRICAL

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.	0.5 to 1.5	sec	0.5 to 1.5	sec

ENVIRONMENTAL

Shock Max	5000	g pk	49050	m/s ²
Vibration Max	3000	g pk	29430	m/s ²
Operating Temperature	-60 to +185	°F	-51 to +85	°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
3273A1T	10	500	0.003	-60 to +225	0.5 - 1.5
3273A2T	100	50	0.00095	-60 to +165	0.5 - 1.5

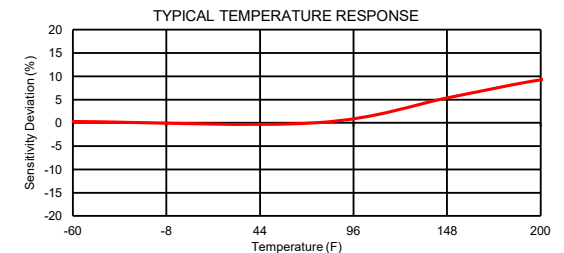
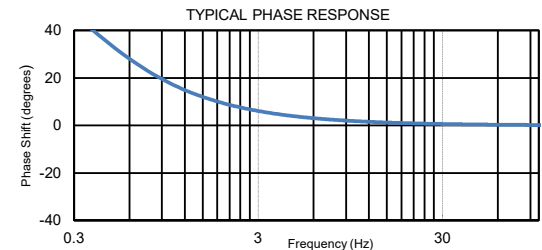
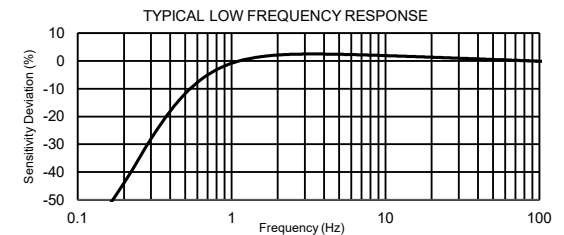
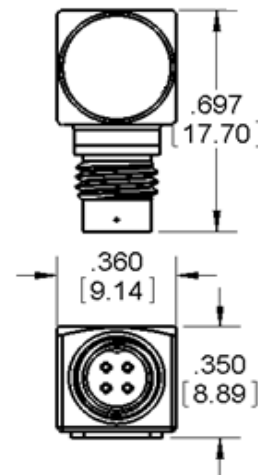
Please, refer to the performance specifications of the products in this family for detailed description

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, 1 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 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. 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.



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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