

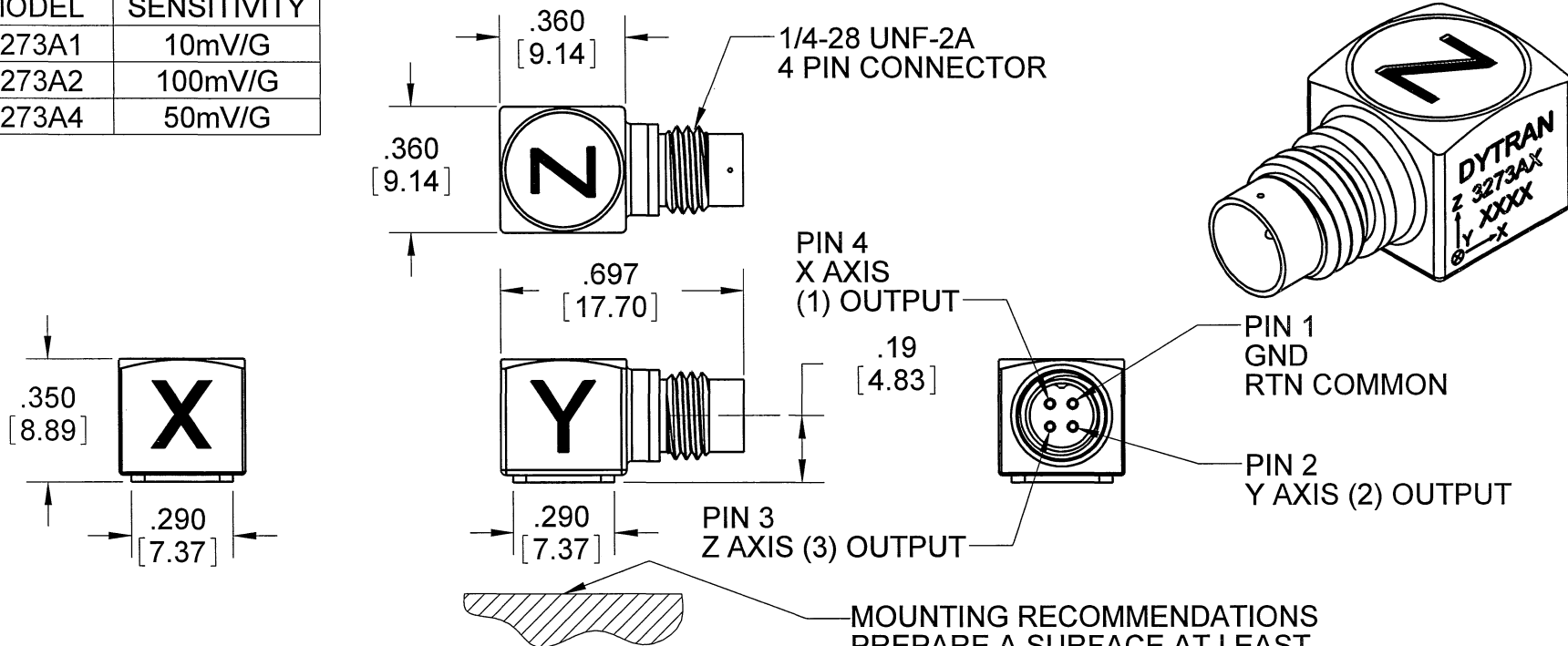



REVISIONS					
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
D	7027	ADDED NOTE 4	JS 08/18/10		


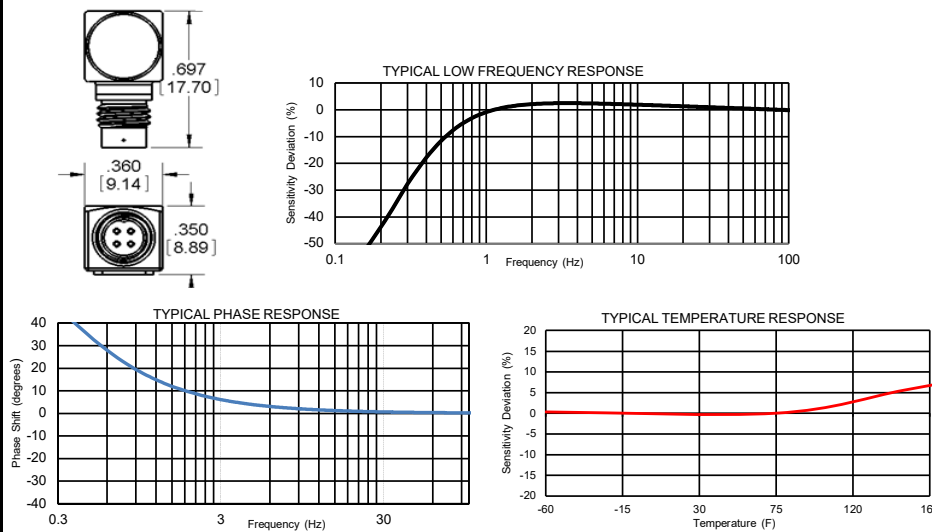
MODEL	SENSITIVITY
3273A1	10mV/G
3273A2	100mV/G
3273A4	50mV/G




- 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.

CONTRACT NO.

		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.	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	<div><div><div></div><div></div><div></div></div><div>PYTRAN INSTRUMENTS, INC.</div></div> <div>MASTER COPY ONLY IF IN RED</div> <div>Chatsworth, CA</div>						
SERIES				TITLE:		OUTLINE/INSTALLATION DRAWING, 3273A SERIES				
USED ON	NEXT ASSY			APPROVALS		DATE				
APPLICATION			MATERIAL	ORIG	R.A.	9/30/08	SIZE	CAGE CODE	DWG. NO.	REV
THIRD ANGLE PROJECTION USA			FINISH	CHK	DV	10/17/08	A	2W033	127-3273A	D
				APP	ANS	10/17/08	SCALE: 4:1		SOLIDWORKS	SHEET 1 OF 1
		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	DO NOT SCALE DRAWING	APP						

Model Number 3273A2		PERFORMANCE SPECIFICATION				DOC NO PS3273A2	
		Accelerometer, Triaxial, IEPE				REV N, ECN 15610, 02/25/20	
		<ul style="list-style-type: none">• ULTRA LOW FREQUENCY RESPONSE• ULTRA LOW NOISE LEVEL• WEIGHT ONLY 2.7 GRAMS					
		ENGLISH				SI	
PHYSICAL							
Weight		0.096	oz	2.7	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							
Sensitivity, $\pm 10\%$ [2]		100	mV/g	10.19	mV/m/s ²		
Acceleration Range		+/-50	Gpeak	+/-491	m/s ² peak		
Frequency Range, $\pm 5\%$.7 - 3000	Hz	.7 - 3000	Hz		
Frequency Range, $\pm 15\%$.42 - 10,000	Hz	.42 - 10,000	Hz		
Phase Response, $\pm 5^\circ$		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	$\mu\text{Grms/sqr(Hz)}$	2031	$\mu\text{m/s}^2 \text{ rms/sqr(Hz)}$		
	10Hz	52	$\mu\text{Grms/sqr(Hz)}$	510	$\mu\text{m/s}^2 \text{ rms/sqr(Hz)}$		
	100Hz	32	$\mu\text{Grms/sqr(Hz)}$	314	$\mu\text{m/s}^2 \text{ rms/sqr(Hz)}$		
	1000Hz	11	$\mu\text{Grms/sqr(Hz)}$	108	$\mu\text{m/s}^2 \text{ rms/sqr(Hz)}$		
	10000Hz	8	$\mu\text{Grms/sqr(Hz)}$	78	$\mu\text{m/s}^2 \text{ rms/sqr(Hz)}$		
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 to +13	VDC	+11 to +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 +165	$^\circ\text{F}$	-51 to +74	$^\circ\text{C}$		
Seal		Hermetic		Hermetic			
Magnetic Sensitivity at 100 Gauss		0.000013	g/Gauss	0.00013	m/s ² /Gauss		
Base Strain Sensitivity		0.02	g/ $\mu\epsilon$	0.1962	m/s ² / $\mu\epsilon$		
		This family also includes:					
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp($^\circ\text{F}$)	TC		
3273A1	10	500	0.003	-60 to +225	0.5 - 1.5		
3273A4	50	100	0.002	-60 to +185	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 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. 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 127-3273A for more information.							



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