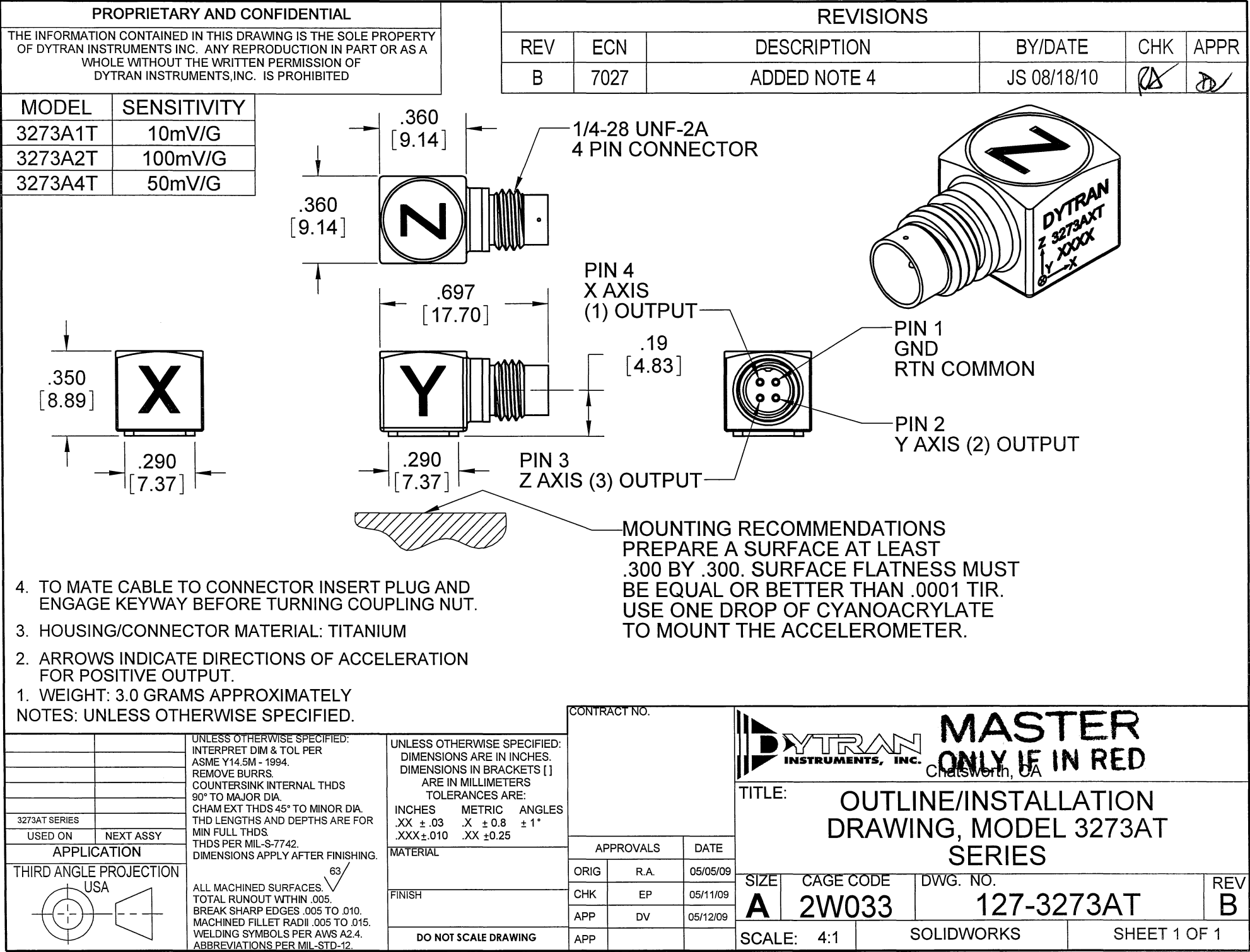
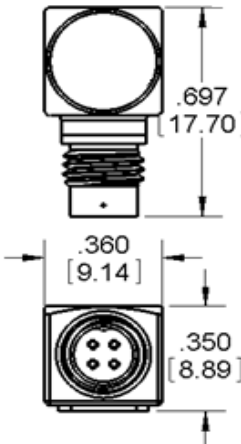
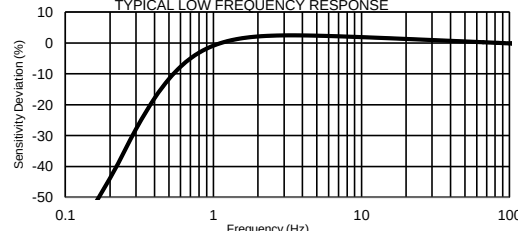
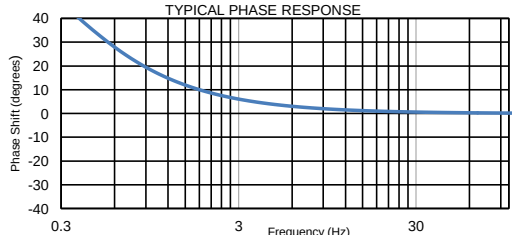
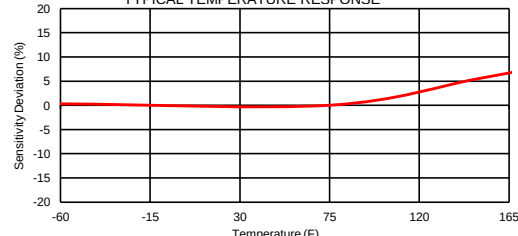




3273A2T		PERFORMANCE SPECIFICATION																					
REV H, ECN 13591, 07/31/17		Accelerometer, Triaxial, IEPE																					
		• ULTRA LOW FREQUENCY RESPONSE • ULTRA LOW NOISE LEVEL • WEIGHT ONLY 3 GRAMS • TEDS FEATURE																					
		ENGLISH		SI																			
PHYSICAL																							
Weight		0.1	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																							
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, $+15/-10\%$		.42 - 10,000	Hz	.42 - 10,000	Hz																		
Resonance Frequency		>24	kHz	>24	kHz																		
Phase Response, $\pm 5^\circ$		4.0 to 3000	Hz	4.0 to 3000	Hz																		
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	$\mu\text{Grms}/\text{sqr}(\text{Hz})$	2031	$\mu\text{m}/\text{s}^2 \text{ rms}/\text{sqr}(\text{Hz})$																		
	10Hz	52	$\mu\text{Grms}/\text{sqr}(\text{Hz})$	510	$\mu\text{m}/\text{s}^2 \text{ rms}/\text{sqr}(\text{Hz})$																		
	100Hz	32	$\mu\text{Grms}/\text{sqr}(\text{Hz})$	314	$\mu\text{m}/\text{s}^2 \text{ rms}/\text{sqr}(\text{Hz})$																		
	1000Hz	11	$\mu\text{Grms}/\text{sqr}(\text{Hz})$	108	$\mu\text{m}/\text{s}^2 \text{ rms}/\text{sqr}(\text{Hz})$																		
	10000Hz	8	$\mu\text{Grms}/\text{sqr}(\text{Hz})$	78	$\mu\text{m}/\text{s}^2 \text{ rms}/\text{sqr}(\text{Hz})$																		
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 - 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 +165	$^\circ\text{F}$	-51 to +82	$^\circ\text{C}$																		
TEDs Operation Temperature		-40 to +185	$^\circ\text{F}$	-40 to +85	$^\circ\text{C}$																		
Seal		Hermetic		Hermetic																			
Magnetic Sensitivity at 100 Gauss		0.00013	g/Gauss	0.00013	m/s ² /Gauss																		
Base Strain Sensitivity		0.06	g/ $\mu\epsilon$	0.59	m/s ² / $\mu\epsilon$																		
TED feature		IEEE 1451.4		IEEE 1451.4																			
		This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (Gpeak)</th><th>Resolution (Grms)</th><th>Oper. Temp($^\circ\text{F}$)</th><th>TC</th></tr><tr><td>3273A1T</td><td>10</td><td>500</td><td>0.003</td><td>-60 to +225</td><td>0.5 - 1.5</td></tr><tr><td>3273A4T</td><td>50</td><td>100</td><td>0.002</td><td>-60 to +185</td><td>0.5 - 1.5</td></tr></table> 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.  TYPICAL LOW FREQUENCY RESPONSE  TYPICAL PHASE RESPONSE  TYPICAL TEMPERATURE RESPONSE  Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3273AT for more information.				Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp($^\circ\text{F}$)	TC	3273A1T	10	500	0.003	-60 to +225	0.5 - 1.5	3273A4T	50	100	0.002	-60 to +185	0.5 - 1.5
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