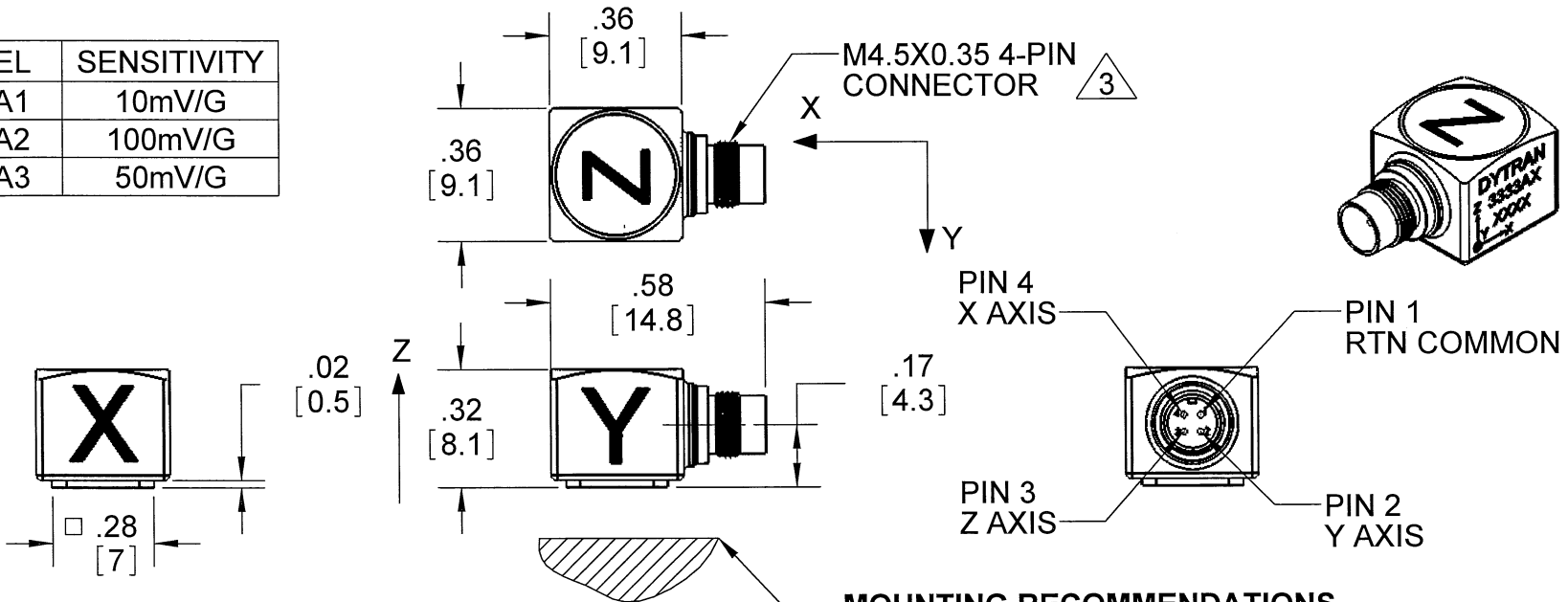


PROPRIETARY AND CONFIDENTIAL		REVISIONS				
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED		REV	ECN	DESCRIPTION	BY/DATE	CHK APPR
		A	6289	INITIAL RELEASE	DV 09/28/09	<i>sv</i> <i>DV</i>

MODEL	SENSITIVITY
3333A1	10mV/G
3333A2	100mV/G
3333A3	50mV/G



- 4. HOUSING/CONNECTOR MATERIAL: TITANIUM
- 3. MATES WITH 6893AXX CABLE
- 2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
- 1. WEIGHT: 2.8 GRAMS

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.

NOTES: UNLESS OTHERWISE SPECIFIED

		CONTRACT NO.		 MASTER ONLY IF IN RED Chatsworth, CA		
				TITLE: OUTLINE/INSTALLATION DRAWING, 3333A SERIES		
				SIZE	CAGE CODE	DWG. NO.
				A	2W033	127-3333A
				SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1

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		APPROVALS		DATE
3333A USED ON		NEXT ASSY		ORIG	DV	09/28/09
APPLICATION				CHK	<i>sv</i>	10/26/09
THIRD ANGLE PROJECTION USA				APP	<i>DV</i>	10/26/09
				APP		

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	
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MODEL NUMBER 3333A3		PERFORMANCE SPECIFICATION				DOC NO PS3333A3																			
		Accelerometer, Triaxial, IEPE				REV C, ECN 7076, 09/24/10																			
 Actual Size		• ULTRA LOW FREQUENCY RESPONSE • ULTRA LOW NOISE LEVEL • WEIGHT ONLY 2.3 GRAMS				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(*F)</th><th>TC</th></tr><tr><td>3333A1</td><td>10</td><td>500</td><td>0.0015</td><td>-60 to +250</td><td>0.8 - 1.2</td></tr><tr><td>3333A2</td><td>100</td><td>50</td><td>0.00095</td><td>-60 to +165</td><td>05 -1.5</td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(*F)	TC	3333A1	10	500	0.0015	-60 to +250	0.8 - 1.2	3333A2	100	50	0.00095	-60 to +165	05 -1.5
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(*F)	TC																				
3333A1	10	500	0.0015	-60 to +250	0.8 - 1.2																				
3333A2	100	50	0.00095	-60 to +165	05 -1.5																				
PHYSICAL		ENGLISH		SI																					
Weight		0.08	oz	2.3	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, +15-10% [2]		50	mV/g	5.10	mV/m/s ²																				
Acceleration Range,		+/-100	Gpeak	+/- 981	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		0.0009	Grms	0.009	m/s ² rms																				
Spectral Noise	1Hz	311	μGrms/sqr(Hz)	3051	μm/s ² rms/sqr(Hz)																				
	10Hz	60	μGrms/sqr(Hz)	589	μm/s ² rms/sqr(Hz)																				
	100Hz	30	μGrms/sqr(Hz)	294	μm/s ² rms/sqr(Hz)																				
	1000Hz	10	μGrms/sqr(Hz)	98	μm/s ² rms/sqr(Hz)																				
	10000Hz	6	μGrms/sqr(Hz)	59	μm/s ² 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		0.8 - 1.2	sec	0.8 - 1.2	sec																				
ENVIRONMENTAL																									
Shock Max		5000	g pk	49050	m/s ²																				
Vibration Max		3000	g pk	29430	m/s ²																				
Operating Temperature		-60 to +200	°F	-51 to +93	°C																				
Seal		Hermetic		Hermetic																					
Magnetic Sensitivity at 100 Gauss		0.00007	g/Gauss	0.00069	m/s ² /Gauss																				
Base Strain Sensitivity		0.02	g/με	0.20	m/s ² /με																				



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