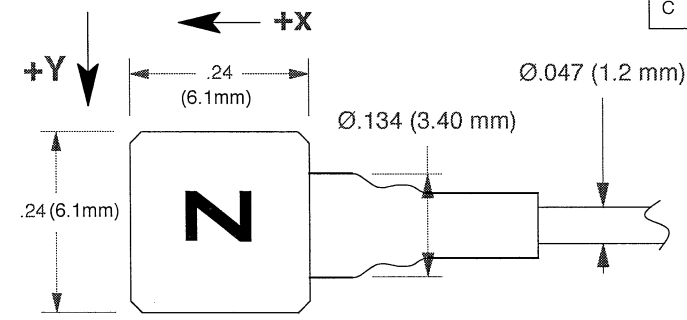
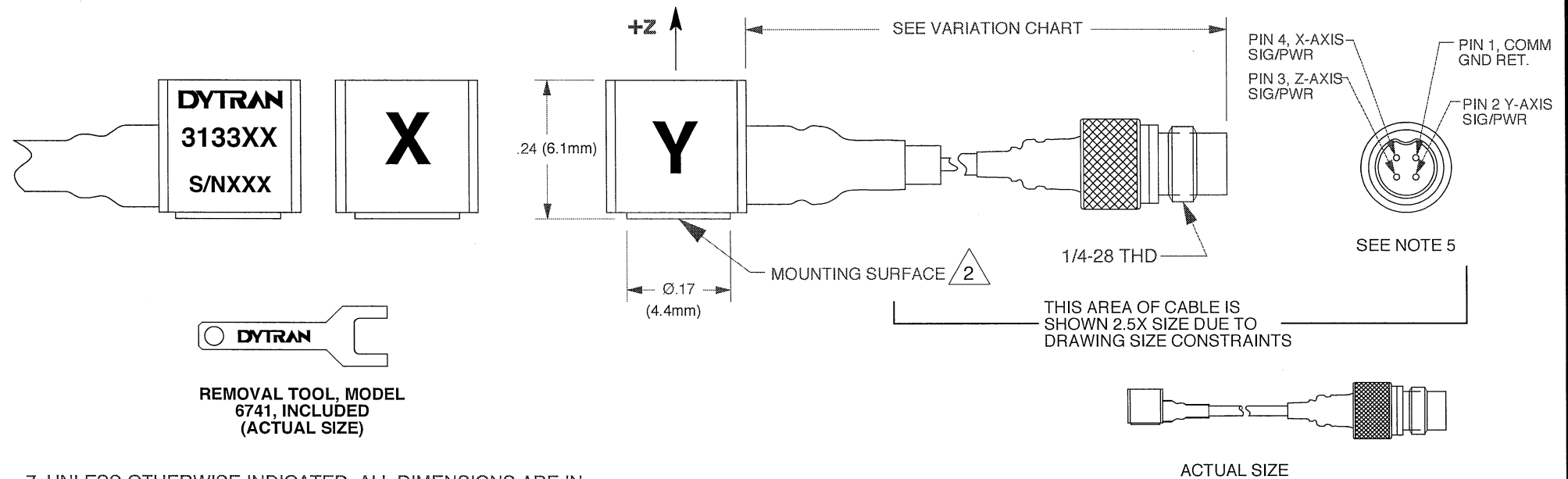


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5992	INITIAL RELEASE	NC/5-14-09	DV	ANS
B	6368	UPDATED DRAWING WITH SMALLER CABLE DIAMETER	NC/10-13-09	DV	ANS
C	6531	3133A1 SENSITIVITY IS: 9-14 mV/g WAS: 10-15 mV/g	RA/01-26-10	jj	DV




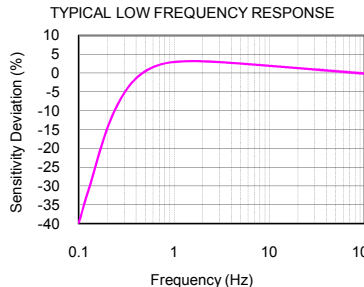
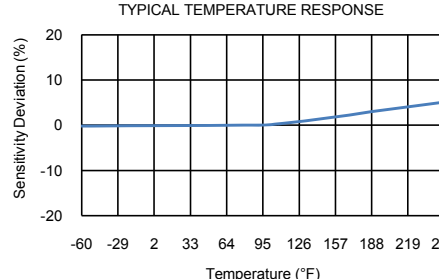
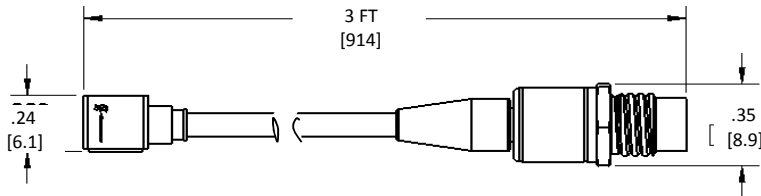

VARIATION CHART	
MODEL	SENSITIVITY
3133A1	9-14 mV/g
3133A2	2-5 mV/g
3133A3	5-10 mV/g



- UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. mm DIMENSIONS ARE INDICATED BY PARENTHESES.
- MODEL 6298 PETRO MOUNTING WAX IS INCLUDED.
- MATING CABLES ARE MODELS 6824AXX (SANOPRENE), OR 6811AXX, (TEFLON) 4-PIN CONNECTOR TO 3 BNC's. "XX" IS THE CABLE LENGTH IN FEET.
- HOUSING MATERIAL: TITANIUM.
- THE LETTERS "X", "Y", & "Z" INDICATE THE DIRECTION OF ACCELERATION OF EACH AXIS FOR POSITIVE GOING OUTPUT VOLTAGE (AS THE MARKED SURFACE ACCELERATES TOWARD THE VIEWER.) SEE DIRECTIONAL ARROWS ON FACE OF DRAWING.
- FOR BEST FREQUENCY RESPONSE, PREPARE FLAT MOUNTING SURFACE OF AT LEAST .20 DIAMETER, FLAT TO .0001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.
- WEIGHT, LESS CABLE: 0.8 GRAMS.

MASTER ONLY IF IN REDCHATSWORTH, CA.

SCALE 4X	DESIGN N.C.	DATE 11-10-08			
DRAWN N.C.	DATE 11-10-08	PART NO. SEE CHART			
CHECKED D.V.	DATE 05-18-09	MAT'L			REV C
APPROVED ANS	DATE 05-26-09	NEXT ASSEMBLY	USED ON 3133A1, 3133A2, 3133A3		
TITLE OUTLINE/INSTALLATION DRAWING, MODEL SERIES 3133A TRIAXIAL ACCELEROMETERS				DWG NO. 127-3133A	
SHEET 1 OF 1					

Model Number 3133A1		PERFORMANCE SPECIFICATION				DOC NO PS3133A1																			
		Accelerometer, Triaxial, IEPE				REV E, ECN 7210, 11/15/10																			
 Actual Size		<ul style="list-style-type: none">• ULTRA MINIATURE SIZE• HIGH SENSITIVITY• IDEAL LOW FREQUENCY RESPONSE				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>3133A2</td><td>2</td><td>2500</td><td>0.15</td><td>-60 to 300</td><td>0.3 to 0.5</td></tr><tr><td>3133A3</td><td>5</td><td>1000</td><td>0.06</td><td>-60 to 250</td><td>1.1 to 1.5</td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC	3133A2	2	2500	0.15	-60 to 300	0.3 to 0.5	3133A3	5	1000	0.06	-60 to 250	1.1 to 1.5
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC																				
3133A2	2	2500	0.15	-60 to 300	0.3 to 0.5																				
3133A3	5	1000	0.06	-60 to 250	1.1 to 1.5																				
		ENGLISH		SI																					
PHYSICAL																									
Weight	oz	0.03	grams	0.8																					
Size	Width	inch	0.24	mm	6.1																				
	Height	inch	0.24	mm	6.1																				
Mounting		Adhesive		Adhesive																					
Integral Cable	Length	ft	3	mm	914.4																				
	Type		TFE	TFE																					
Connector	Type		4-pin	4-pin																					
	Material		Titanium	Titanium																					
Housing	Isolation		Case Ground	Case Ground																					
	Material		Ceramic	Ceramic																					
Sensing Element	Mode		Shear	Shear																					
PERFORMANCE																									
Sensitivity [1], [2], ±15%	mV/g	10	mV/m/s^2	1.02																					
Acceleration Range	Gpeak	500	m/s^2 peak	4905																					
Frequency Range Axis 1 & 2, ±10%	Hz	0.25 to 7000	Hz	0.25 to 7000																					
Frequency Range Axis 3, ±10%	Hz	0.25 to 10,000	Hz	0.25 to 10,000																					
Resonance Frequency	kHz	>35	kHz	>35																					
Transverse Sensitivity	%	6	%	6																					
Bias Voltage	VDC	+8 to +10	VDC	+8 to +10																					
Output Impedance	Ω	100	Ω	100																					
Noise floor	Grms	0.02	m/s^2 rms	0.20																					
Discharge Time Constant	seconds	1.0 to 1.5	seconds	1.0 to 1.5																					
Spectral Noise	1Hz	μGrms/sqr(Hz)	4000	μm/s^2 rms/sqr(Hz)	39240																				
	10Hz	μGrms/sqr(Hz)	2000	μm/s^2 rms/sqr(Hz)	19620																				
	100Hz	μGrms/sqr(Hz)	500	μm/s^2 rms/sqr(Hz)	4905																				
	1000Hz	μGrms/sqr(Hz)	200	μm/s^2 rms/sqr(Hz)	1962																				
	10000Hz	μGrms/sqr(Hz)	90	μm/s^2 rms/sqr(Hz)	883																				
ENVIRONMENTAL																									
Shock	Gpeak	3000	m/s^2	29430																					
Vibration	Gpeak	900	m/s^2	8829																					
Operating Temperature	°F	-60 to +250	°C	-51 to 121																					
Seal		Epoxy		Epoxy																					
Magnetic Sensitivity at 100 Gauss	g/Gauss	0.00004	m/s^2/Gauss	0.00039																					
Base Strain Sensitivity	g/με	0.15	m/s^2/με	1.47																					
POWER																									
Compliance Voltage	VDC	+18 to +30	VDC	+18 to +30																					
Current Range	mA	2 to 20	mA	2 to 20																					
						<p>Please, refer to the performance specifications of the products in this family for detailed description</p> <p>Supplied Accessories:</p> <p>1) Model 6298 small petro wax 2) Model 6741 removal tool 3) Accredited calibration certificate (ISO 17025)</p> <p>Notes:</p> <p>[1] Measured at 100 Hz, 10 Grms [2] Actual sensitivity is given on a calibration certificate [3] Do not apply power to this device without current limiting, 20mA max, to do so wi destroy the integral IC amplifier</p> <div><div><p>TYPICAL LOW FREQUENCY RESPONSE</p></div><div><p>TYPICAL TEMPERATURE RESPONSE</p></div></div> <div></div> <p>Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133A for more information.</p>																			
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