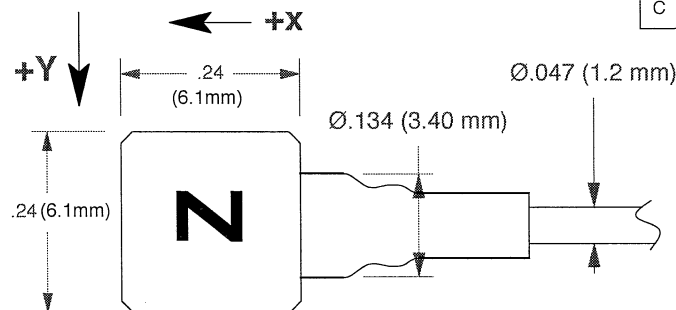
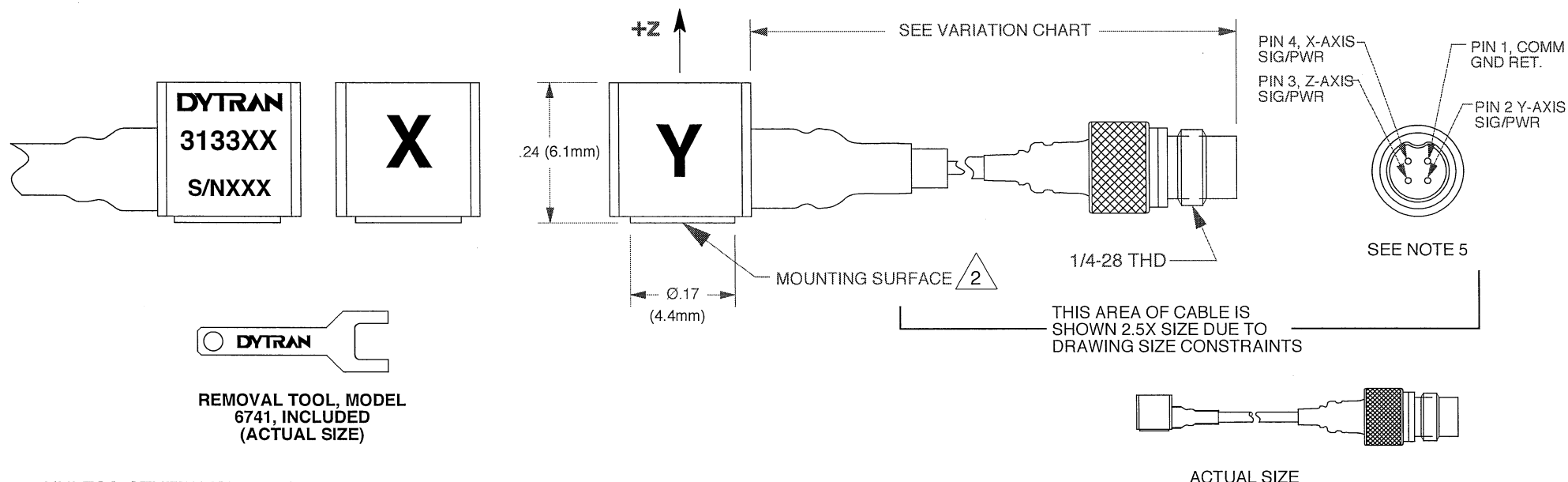


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	5992	INITIAL RELEASE	NC/5-14-09	DV	ANS
B	6368	UPDATED DRAWING WITH SMALLER CABLE DIAMETER	NC/10-13-09	DV	ANS
C	6531	3133A1 SENSITIVITY IS: 9-14 mV/g WAS: 10-15 mV/g	RA/01-26-10	jj	DV

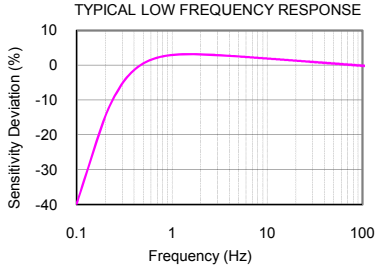
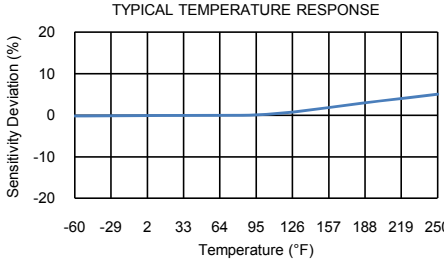
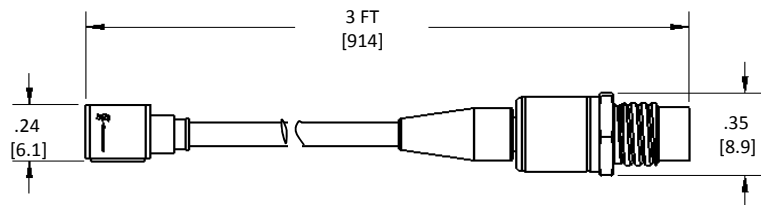


VARIATION CHART	
MODEL	SENSITIVITY
3133A1	9-14 mV/g
3133A2	2-5 mV/g
3133A3	5-10 mV/g



- 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.

DYTRAN INSTRUMENTS, INC.		MASTER ONLY IF IN RED		CHATSWORTH, 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		PERFORMANCE SPECIFICATION						DOC NO PS3133A3																			
3133A3		Accelerometer, Triaxial, IEPE						REV E,ECN # 7210, 11/15/10																			
		• ULTRA MINIATURE SIZE • IDEAL LOW FREQUENCY RESPONSE						This family also includes:																			
Actual Size		ENGLISH		SI		<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>3133A1</td><td>10</td><td>500</td><td>0.02</td><td>-60 to 250</td><td>1.1 to 1.5</td></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></table>				Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC	3133A1	10	500	0.02	-60 to 250	1.1 to 1.5	3133A2	2	2500	0.15	-60 to 300	0.3 to 0.5
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC																						
3133A1	10	500	0.02	-60 to 250	1.1 to 1.5																						
3133A2	2	2500	0.15	-60 to 300	0.3 to 0.5																						
PHYSICAL								Please, refer to the performance specifications of the products in this family for detailed description Supplied Accessories: 1) Model 6298 small petro wax 2) Model 6741 removal tool 3) Accredited calibration certificate (ISO 17025) Notes: [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 will destroy the integral IC amplifier Typical Low Frequency Response  Typical Temperature Response   Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133A for more information																			
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																						
	Type	TFE	TFE																								
Connector	Type	4-pin	4-pin																								
Housing	Material	Titanium	Titanium																								
Sensing Element	Isolation	Case Ground	Case Ground																								
	Material	Ceramic	Ceramic																								
Mode		Shear	Shear																								
PERFORMANCE																											
Sensitivity [1], [2], ±20%	mV/g	5	mV/m/s^2	0.5 to 10																							
Acceleration Range	Gpeak	1000	m/s^2 peak	9810																							
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	0.06	m/s^2 rms	0.59																							
Discharge Time Constant	seconds	1.0 to 1.5	seconds	1.0 to 1.5																							
Spectral Noise	1Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	39240																							
	10Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	19620																							
	100Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	4905																							
	1000Hz	μGrms/sqr(Hz)	μm/s^2 rms/sqr(Hz)	1962																							
	10000Hz	μGrms/sqr(Hz)	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																							



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