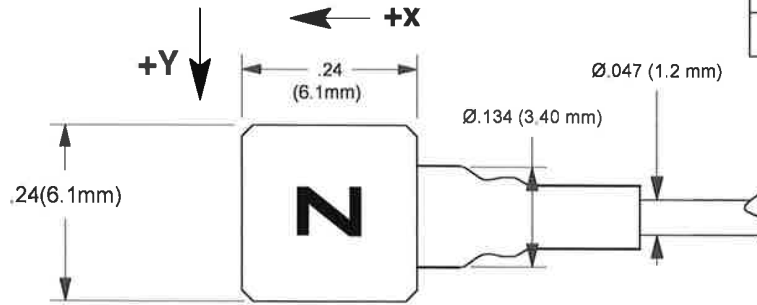


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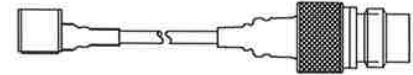
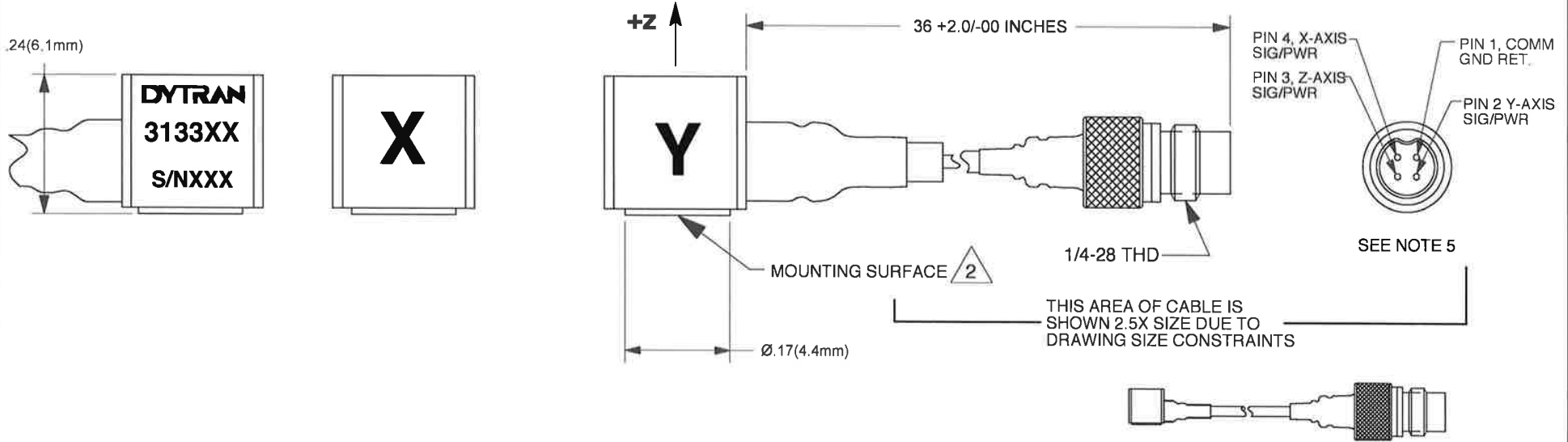
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	6531	3133A1 SENSITIVITY IS: 9-14 mV/g WAS: 10-15 mV/g	RA/01-26-10	JS	DV
D	8433	ADDED MODEL 3133A4	LN/04-05-12	JS	DV
E	8744	ADDED CABLE LENGTH + TOL.	NC/06-08-12	DV	AS
F	10765	3133A4 SENSITIVITY WAS: 1 mV/g (±25%)	JS 02/04/14	AS	<i>[Signature]</i>



**REMOVAL TOOL, MODEL
6741, INCLUDED
(ACTUAL SIZE)**



VARIATION CHART	
MODEL	SENSITIVITY
3133A1	10 mV/g (±15%)
3133A2	2 mV/g (±25%)
3133A3	5 mV/g (±20%)
3133A4	0.7 mV/g (±25%)



ACTUAL SIZE

1. WEIGHT, LESS CABLE: 0.8 GRAMS.
2. 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.
3. 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.
4. HOUSING MATERIAL: TITANIUM.
5. MATING CABLES ARE MODELS 6824AXX (SANTOPRENE), OR 6811AXX, (TEFLON) 4-PIN CONNECTOR TO 3 BNC'S. "XX" IS THE CABLE LENGTH IN FEET. EX. :CABLE MOD. 6811A3 (3 FT. NOM.).
6. MODEL 6298 PETRO MOUNTING WAX IS INCLUDED.
7. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. mm DIMENSIONS ARE INDICATED BY PARENTHESES.

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 F	
APPROVED ANS	DATE 05-26-09	NEXT ASSEMBLY	USED ON	3133A1, A2, A3, A4	
TITLE OUTLINE/INSTALLATION DRAWING, MODEL SERIES 3133A TRIAXIAL ACCELEROMETERS				DWG NO. 127-3133A	
SHEET 1 OF 1					

Model Number	PERFORMANCE SPECIFICATION				DOC NO PS3133A4
	Accelerometer, Triaxial, IEPE				
3133A4					REV C, ECN 10765, 02/03/14



Actual Size

- ULTRA MINIATURE SIZE
- IDEAL LOW FREQUENCY RESPONSE

	ENGLISH		SI	
Weight	oz	0.03	grams	0.8
Size	Width	inch	mm	6.1
	Height	inch	mm	6.1
Mounting		Adhesive		Adhesive
	Integral Cable	Length	ft	3
Connector	Type	TFE		TFE
	Housing	Type	4-pin	4-pin
Sensing Element	Material	Titanium		Titanium
	Isolation	Case Ground		Case Ground
	Material	Quartz		Quartz
	Mode	Shear		Shear

PHYSICAL

Weight
Size
Mounting
Integral Cable
Connector
Housing
Sensing Element

PERFORMANCE

Sensitivity [1], [2], ± 25%
Acceleration Range
Frequency Range Axis 1 & 2, ±10%
Frequency Range Axis 3, ±10%
Linearity [4]
Resonance Frequency
Transverse Sensitivity
Bias Voltage
Output Impedance
Noise floor
Discharge Time Constant
Spectral Noise

Sensitivity [1], [2], ± 25%	mV/g	0.7	mV/m/s ²	0.07
Acceleration Range	Gpeak	5000	m/s ² peak	49050
Frequency Range Axis 1 & 2, ±10%	Hz	0.7 to 7000	Hz	0.7 to 7000
	Hz	0.7 to 10,000	Hz	0.7 to 10,000
Linearity [4]	% F.S.	± 1	% F.S.	± 1
Resonance Frequency	kHz	>35	kHz	>35
Transverse Sensitivity	%	6	%	6
Bias Voltage	VDC	+7 to +9	VDC	+7 to +9
Output Impedance	Ω	100	Ω	100
Noise floor	Grms	0.15	m/s ² rms	1.47
Discharge Time Constant	seconds	0.3 to 0.8	seconds	0.3 to 0.8
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
Vibration
Operating Temperature
Seal
Magnetic Sensitivity at 100 Gauss
Base Strain Sensitivity

Shock	Gpeak	7000	m/s ²	68670
Vibration	Gpeak	6000	m/s ²	58860
Operating Temperature	°F	-60 to +300	°C	-51 to 148
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
Current Range

Compliance Voltage	VDC	+18 to +30	VDC	+18 to +30
Current Range	mA	2 to 20	mA	2 to 20

This family also includes:

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 250	0.3 to 0.5
3133A3	5	1000	0.06	-60 to 250	1.1 to 1.5

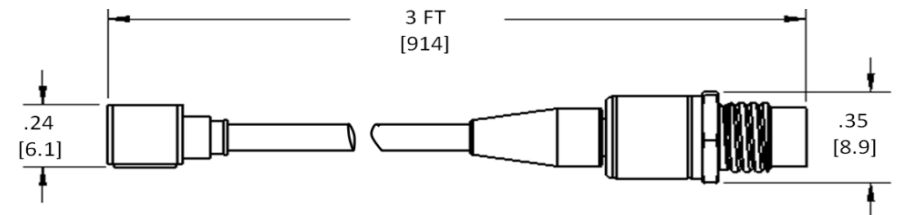
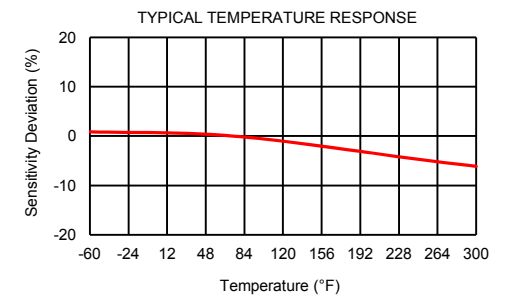
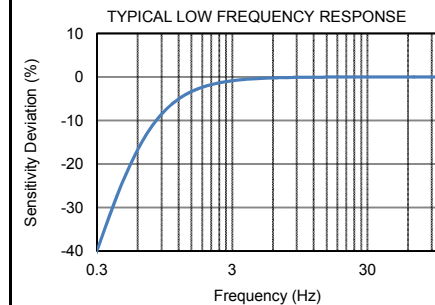
Please, refer to the performance specifications of the products in this family for detailed description

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
- [4] Measured using zero-based straight line method, % of F.S. or any lesser range.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133A for more information.



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