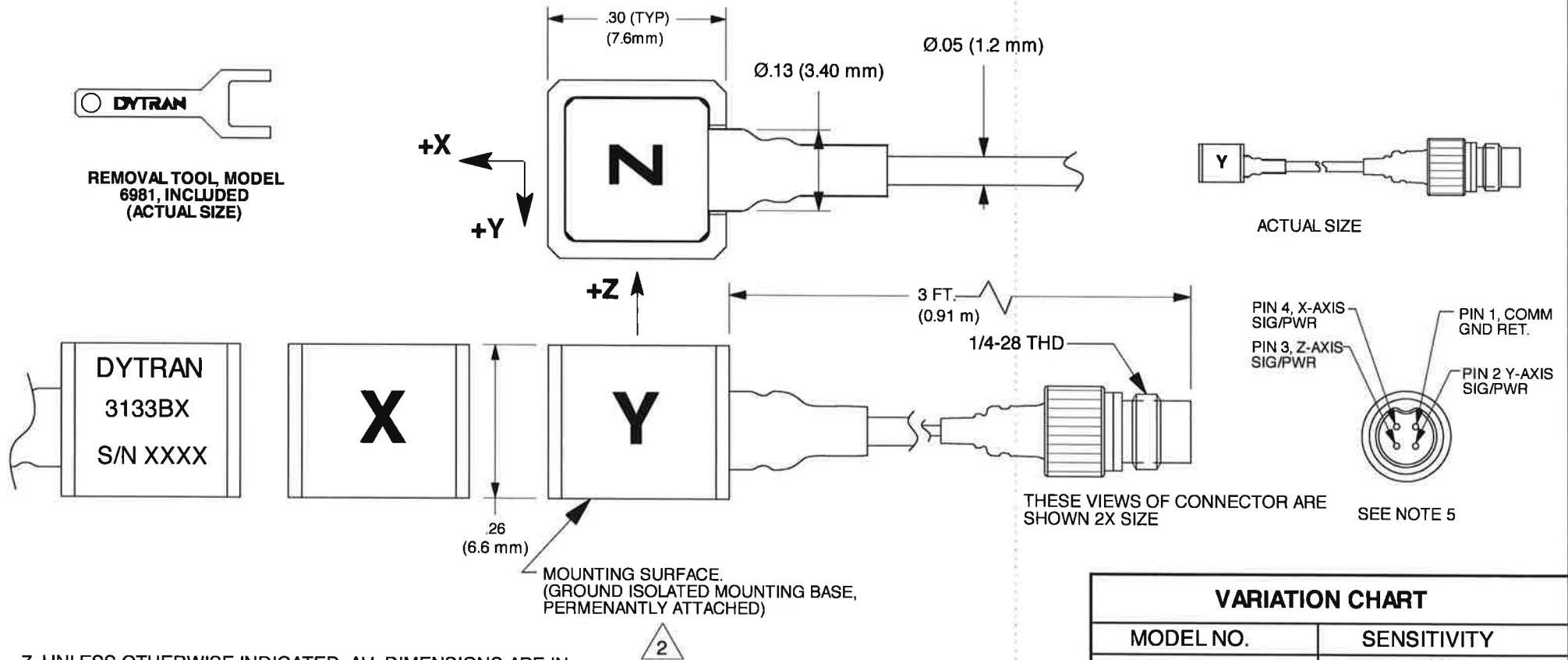


DYTRAN PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF
 DYTRAN INSTRUMENTS, INC. AND ANY REPRODUCTION IN PART OR AS A WHOLE
 OR ANY OTHER DISSEMINATION OF THIS INFORMATION WITHOUT THE WRITTEN
 PERMISSION OF DYTRAN INSTRUMENTS, INC. IS PROHIBITED.

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9456	INITIAL RELEASE	NC/12-21-12	EP	DV
B	12409	UPDATED VIEW OF CONNECTOR (KNURLING)	JS 12/15/15	LA	AS



7. UNLESS OTHERWISE INDICATED, ALL DIMENSIONS ARE IN INCHES. mm DIMENSIONS ARE INDICATED BY PARENTHESES.

INCHES	METRIC	ANGLES
.XX ±.03	.X ± 0.8	± 1°
.XXX ±.010	.XX ± 0.25	

- 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. GND. ISO BASE: ANODIZED ALUMINUM.
- 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 .45 DIAMETER, FLAT TO .0001 TIR. APPLY ONE OR TWO DROPS OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.
- WEIGHT, LESS CABLE: 0.9 GRAMS.

VARIATION CHART	
MODEL NO.	SENSITIVITY
3133B1	9-14 mV/g
3133B2	2-5 mV/g
3133B3	5-10 mV/g

DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED CHATSWORTH, CA.

SCALE 4X	DESIGN N.C.	DATE 12-21-12		
DRAWN N.C.	DATE 5-21-12	PART NO. MODEL 3133B1, B2 & B3		
CHECKED D.V.	DATE 5-21-12	MAT'L		REV B
APPROVED D.V.	DATE 5-21-12	NEXT ASSEMBLY	USED ON 3133B SERIES	
TITLE OUTLINE/INSTALLATION DRAWING, MODEL 3133B1, B2 & B3 GROUND-ISOLATED TRIAXIAL ACCELEROMETERS			DWG NO. 127-3133B	
			SHEET 1 OF 1	

Model Number 3133B2	PERFORMANCE SPECIFICATION			DOC NO	
				PS3133B2	
			Accelerometer, Triaxial, IEPE		REV E, ECN 14811, 01/09/19



- ULTRA MINIATURE SIZE
- IDEAL LOW FREQUENCY RESPONSE
- GROUND ISOLATED

		ENGLISH		SI	
PHYSICAL					
Weight		0.03	oz	0.8	grams
Mounting		Adhesive		Adhesive	
Integral Cable	Length	3	ft	914	mm
	Type	TFE		TFE	
Connector	Type	4-pin		4-pin	
Housing	Material	Titanium		Titanium	
Isolation Cup	Material	Anodized Al		Anodized Al	
Sensing Element	Material	Quartz		Quartz	
	Mode	Shear		Shear	
PERFORMANCE					
Sensitivity [1], [2], ± 25%		2	mV/g	0.20	mV/m/s ²
Acceleration Range		2500	Gpeak	24525	m/s ² peak
Frequency Range, ±5%		0.7 to 6000	Hz	0.7 to 6000	Hz
Frequency Range, ±10%		0.7 to 10000	Hz	0.7 to 10000	Hz
Resonance Frequency		>35	kHz	>35	kHz
Transverse Sensitivity		6	%	6	%
Noise floor		0.15	Grms	1.47	m/s ² rms
Spectral Noise	1Hz	4000	µGrms/sqr(Hz)	39240	µm/s ² rms/sqr(Hz)
	10Hz	2000	µGrms/sqr(Hz)	19620	µm/s ² rms/sqr(Hz)
	100Hz	500	µGrms/sqr(Hz)	4905	µm/s ² rms/sqr(Hz)
	1000Hz	200	µGrms/sqr(Hz)	1962	µm/s ² rms/sqr(Hz)
	10000Hz	90	µGrms/sqr(Hz)	883	µm/s ² rms/sqr(Hz)
ENVIRONMENTAL					
Shock		5000	Gpeak	49050	m/s ²
Vibration		2500	Gpeak	24525	m/s ²
Operating Temperature		-60 to +300	°F	-51 to 148	°C
Seal		Epoxy		Epoxy	
Magnetic Sensitivity at 100 Gauss		0.00004	g/Gauss	0.00039	m/s ² /Gauss
Base Strain Sensitivity		0.15	g/µε	1.47	m/s ² /µε
ELECTRICAL					
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC
Current Range		2 to 20	mA	2 to 20	mA
Discharge Time Constant		0.3 to 2.5	seconds	0.3 to 2.5	seconds
Case Isolation, Min		10	GΩ	10.000	GΩ
Bias Voltage		+7 to +9	VDC	+7 to +9	VDC
Output Impedance		100	Ω	100	Ω

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133B1	10	500	0.02	-60 to 250	1.0 to 2.5
3133B3	5	1000	0.06	-60 to 250	1.0 to 2.5

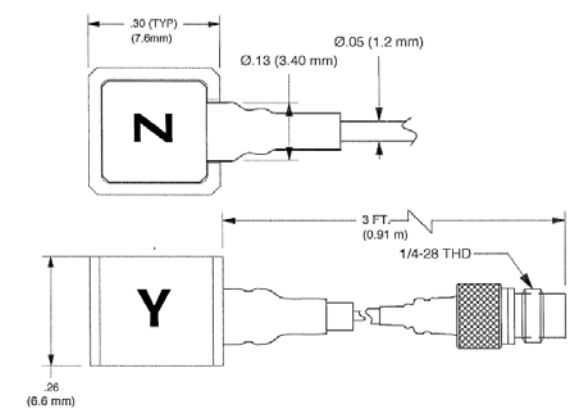
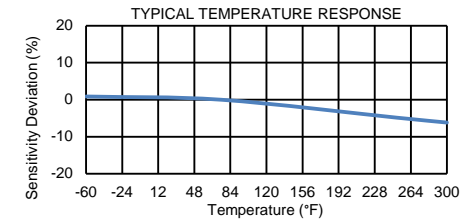
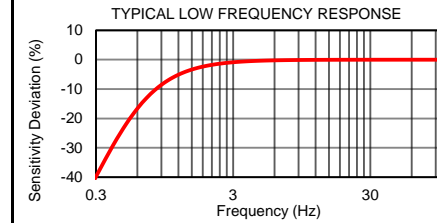
Please, refer to the performance specifications of the products in this family for detailed description

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



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



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com For permission to reprint this content, please contact info@dytran.com