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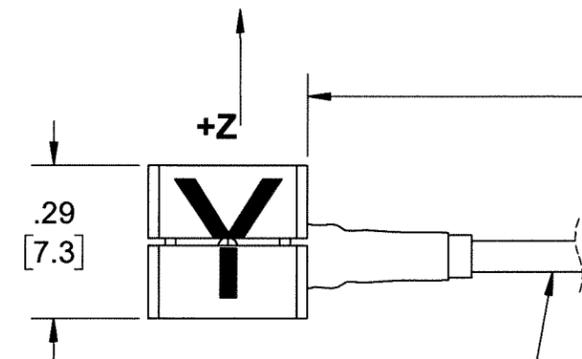
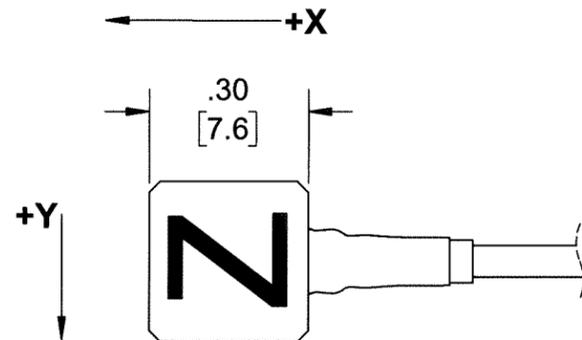
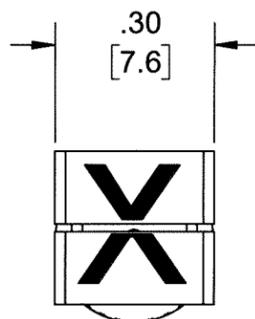
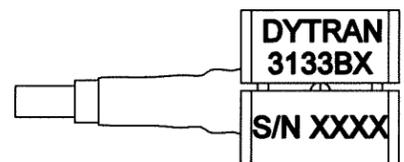
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	15580	INITIAL RELEASE, SAME AS X1	DP 03/10/20	KG	LW

MODEL	SENSITIVITY (mV/g)
3133B4	.2
3133B5	.7
3133B6	2
3133B7	5
3133B8	10



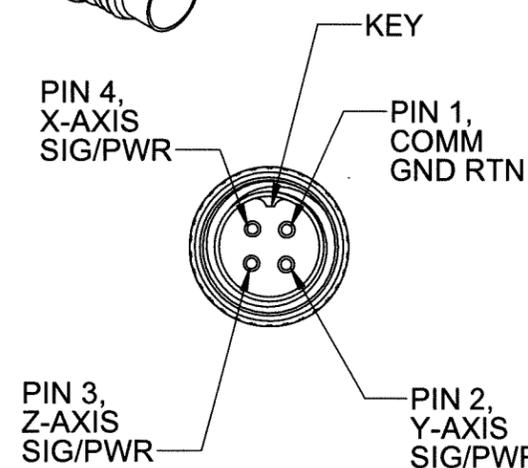
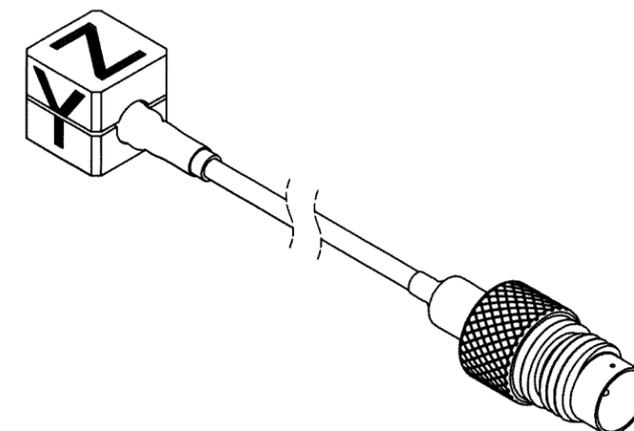
REMOVAL TOOL, MODEL 6981, INCLUDED



7 CABLE, 4-CONDUCTOR, SHIELDED, WHITE JACKET. SEE TABLE FOR SPECIFICATIONS

36.00^{+2.00}_{-.00}
914.4^{+50.8}₀

6 1/4-28 UNF-2A 4 PIN CONNECTOR



7 SEE TABLE FOR CABLE SPECIFICATIONS.

6 MATES WITH DYTRAN CABLES: MODEL 6824AXX (SANTOPRENE) OR 6811AXX (TEFLON), 4-PIN CONNECTOR TO 3 BNCs. "XX" DENOTES LENGTH IN FEET.

5. DYTRAN MODEL 6298 PETRO MOUNTING WAX AND MODEL 6981 REMOVAL TOOL, SUPPLIED.

4. ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

3 FOR BEST FREQUENCY RESPONSE, PREPARE A FLAT MOUNTING SURFACE OF AT LEAST Ø.45, FLAT TO .0001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.

2. HOUSING MATERIAL: TITANIUM ALLOY. GROUND ISOLATION BASE: ANODIZED ALUMINUM.

1. WEIGHT: 1.5 GRAMS MAX, LESS CABLE.

NOTES: UNLESS OTHERWISE SPECIFIED

7 4 CONDUCTOR, CABLE, SHIELDED	
JACKET	TEFLON OR NEOFロン PFA, .006" NOM WALL THICKNESS, WHITE
SHIELD	44 AWG WIRES, SILVER PLATED COPPER BRAID, 90% MIN COVERAGE
CONDUCTORS	38 AWG, 7/38 NICKEL PLATED COPPER, PFA INSULATION
DIAMETER	Ø.045 NOM. [Ø 1.14mm]
TEMP	-321 °F (-196 °C) TO +392 °F (+200 °C)
VOLTAGE RATING	150VAC

<small>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. DIMENSIONS APPLY AFTER FINISHING.</small>	<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE:</small>			<p>MASTER ONLY IF IN RED</p>		
	<small>DECIMALS .XX ±.03 .XXX ±.010</small>	<small>METRIC X ±0.8 .XX ±0.25</small>			<small>ANGLES ±1°</small>	
	<small>APPROVALS</small>	<small>DATE</small>			<small>TITLE:</small> OUTLINE/INSTALLATION DRAWING, MODEL 3133B4	
	<small>ORIG</small> DP	<small>CHK</small> KG			<small>DATE</small> 02/07/20	
<small>APP</small> LW	<small>DATE</small> 03/11/20	<small>DATE</small> 3/12/20	<small>SIZE</small> B	<small>CAGE CODE</small> 2W033	<small>DWG NO</small> 127-3133B4	<small>REV</small> A
<small>DO NOT SCALE DRAWING</small>		<small>SCALE:</small> 2:1	<small>SHEET 1 OF 1</small>			

Model Number	PERFORMANCE SPECIFICATION	DOC NO
3133B7		PS3133B7
	Accelerometer, Triaxial, IEPE	REV B, ECN 16859, 09/12/22



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

ENGLISH	SI
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PHYSICAL

Weight	0.06	oz	1.84	grams
Mounting	Adhesive		Adhesive	
Integral Cable	3	ft	914	mm
	Type		TFE	
Connector	Type		4-pin	
Housing	Material		Titanium	
Insulation Cup	Material		Anodized Alum	
Sensing Element	Material		Ceramic	
	Mode		Shear	

PERFORMANCE

Sensitivity [1], [2], ± 20%	5	mV/g	0.5	mV/m/s ²
Acceleration Range	1000	Gpeak	9810	m/s ² peak
Frequency Range Axis, ±5%	0.3 to 6000	Hz	0.3 to 6000	Hz
Frequency Range Axis, ±10%	0.25 to 10000	Hz	0.25 to 10000	Hz
Linearity [4]	± 1	% F.S.	± 1	% F.S.
Resonance Frequency	>35	kHz	>35	kHz
Transverse Sensitivity	6	%	6	%
Noise floor	0.06	Grms	0.59	m/s ² rms

ENVIRONMENTAL

Shock	3000	Gpeak	29430	m/s ²
Vibration	900	Gpeak	8829	m/s ²
Operating Temperature	-67 to +320	°F	-55 to +160	°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

POWER

Compliance Voltage	+18 to +30	VDC	+18 to +30	VDC
Current Range [3]	2 to 20	mA	2 to 20	mA
Discharge Time Constant	1.0 to 2.5	seconds	1.0 to 2.5	seconds
Case Isolation, Min	10	GΩ	10	GΩ
Bias Voltage	+8 to +10	VDC	+8 to +10	VDC
Output Impedance	100	Ω	100	Ω

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC
3133B4	0.2	20000	0.35	-67 to 320	0.5 to 4.0
3133B5	1	5000	0.15	-67 to 320	0.5 to 2.5
3133B6	2	2500	0.15	-67 to 320	0.3 to 2.5
3133B8	10	500	0.02	-67 to 320	1.0 to 2.5

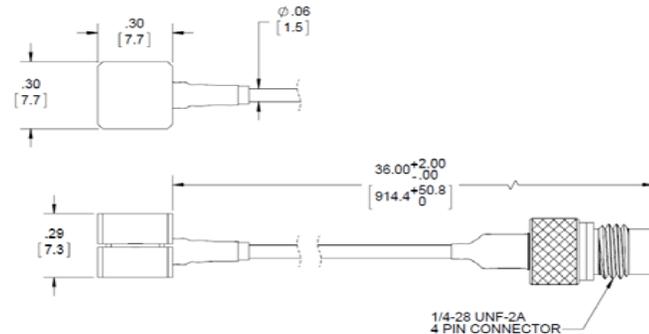
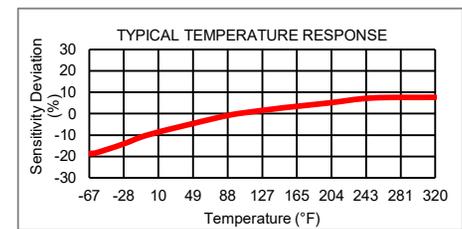
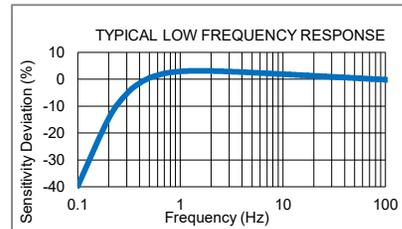
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Model 6298 small petro wax
- 2) Model 6981 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.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3133B4 for more information

