

PROPRIETARY AND CONFIDENTIAL

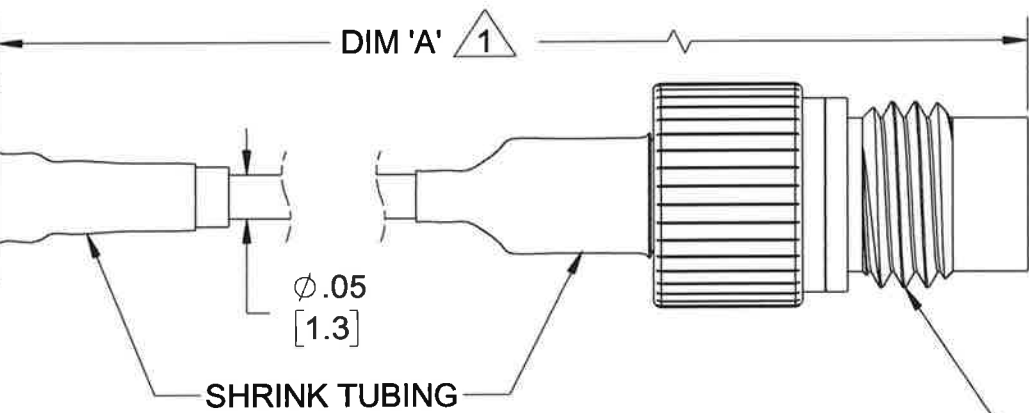
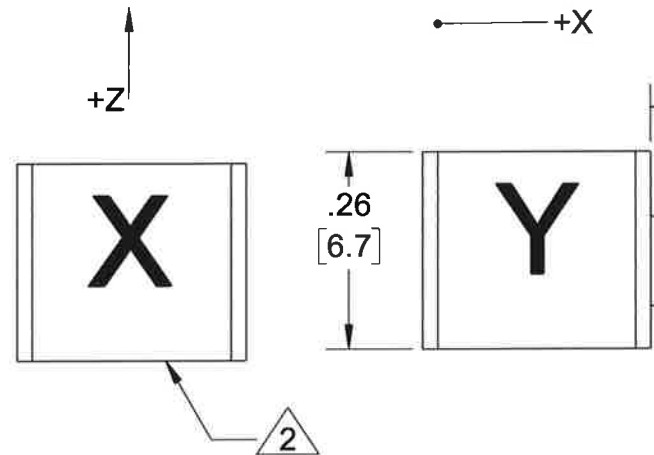
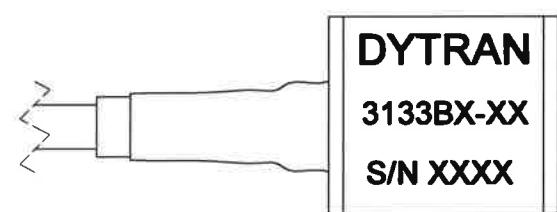
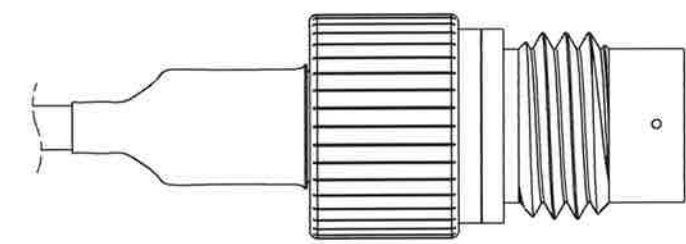
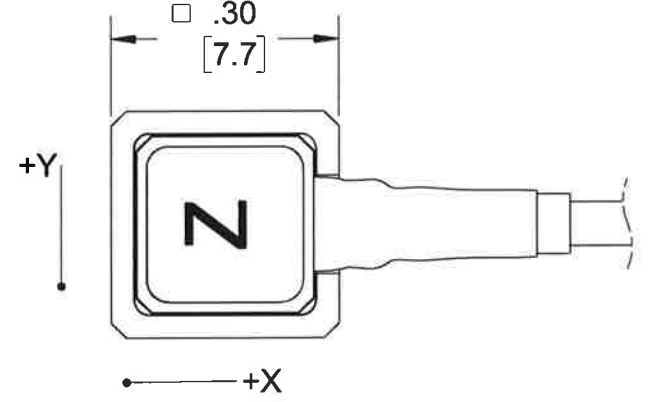
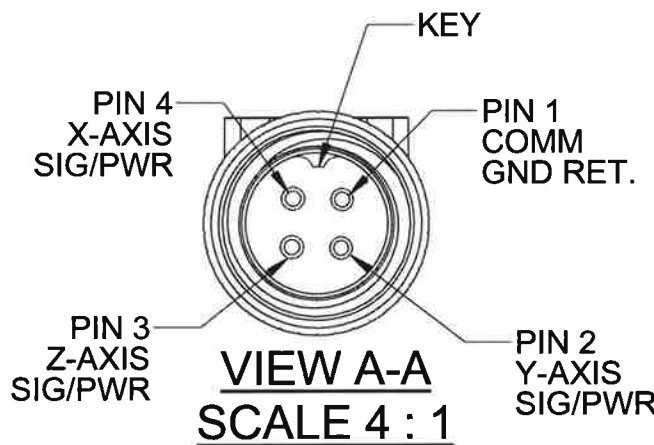
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MODEL	SENSITIVITY	DIM 'A'
3133B1	9-24 mV/g	36.0 IN
3133B2	2-5 mV/g	36.0 IN
3133B3	5-10 mV/g	36.0 IN
3133B1-05	9- 14 mV/g	5.0 FT
3133B2-05	2-5 mV/g	5.0 FT
3133B3-05	5-10 mV/g	5.0 FT

8 4-WIRE CABLE	
WIRE	36 AWG, 7/44 SILVER PLATED COPPER
WIRE INSULATION	PFA, .006 NOMINAL WALL
SHIELD	44 AWG SILVER PLATED SOFT COPPER BRAID
JACKET	PFA, WHITE, .006 INCH NOMINAL WALL
DIAMETER	∅.045 NOMINAL
TEMP	-196 TO +200 DEG C
VOLTAGE	150 VOLTS AC

REVISIONS					
REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	13832	REDRAWN IN SOLIDWORKS WITH CHANGES, SAME AS REV B1	RA, 11/06/17	MH	LN

1 CABLE LENGTH TOLERANCE			
ENGLISH		[METRIC]	
≤1FT	+1/ -0 IN	≤0.3m	+25mm -0mm
>1 FT - 5 FT	+2/ -0 IN	>.0.3 m-1.5m	+50mm -0mm
> 5 FT - 10 FT	+4/ -0 IN	>1.5m-3m	+100mm -0mm
>10 FT - 25FT	+6 / -0 IN	>3m-7.5m	+150mm -0mm
>25 FT	+5% / -0%	>7.5m	+5%/-0%



- 8 CABLE, 4-CONDUCTOR, SHIELDED. SEE TABLE FOR SPECIFICATIONS.
 - 7. WEIGHT: LESS CABLE: 0.9 GRAMS
 - 6. MODEL 6298 PETRO MOUNTING WAX, SUPPLIED
 - 5. MATING CABLES ARE MODELS 6824AXX (SANTOPRENE), OR 6811AXX, (TEFLON) 4-PIN CONNECTOR TO 3 BNC's "XX" IS THE CABLE LENGTH IN FEET.
 - 4. HOISING MATERIAL: TITANIUM. GND. ISO BASE: ANODIZED ALUMINUM.
 - 3. LETTERS 'X', 'Y', 'Z' INDICATE DIRECTION OF ACCELERATION OF EACH AXIS FOR POSITIVE GOING OUTPUT VOLTAGE (AS MARKED SURFACE ACCELERATES TOWARD VIEWER.) SEE DIRECTIONAL ARROWS ON DRAWING FACE.
 - 2 FOR BEST FREQUENCY RESPONCE, PREPARE FLAT MOUNTING SURFACE OF AT LEAST ∅.45, FLAT TO .001 TIR. APPLY ONE OR TWO DROPS OF CYANACRYLATE ADHESIVE TO MOUNT ACCELEROMETER.
 - 1 LENGTH OF CABLE ASSEMBLY IS DESIGNATED BY DIM 'A' (SEE VARIATION CHART)
- NOTES: UNLESS OTHERWISE SPECIFIED

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.

ALL MACHINED SURFACES: 63/ TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.

APPROVALS		DATE
ORIG	RA	10/27/17
CHK	MH	11/4/17
APP	LN	11/8/17

DO NOT SCALE DRAWING

MASTER COPY ONLY IF IN RED
DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3133BX-X GROUND-ISOLATED TRIAXIAL ACCELEROMETER**

SIZE B	CAGE CODE 2W033	DWG NO 127-3133B	REV C
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SCALE: 2:1 SHEET 1 OF 1

Model Number 3133B3	PERFORMANCE SPECIFICATION	DOC NO PS3133B3
	Accelerometer, Triaxial, IEPE	REV F, ECN 16859, 09/12/22



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

	ENGLISH		SI	
PHYSICAL				
Weight	0.06	oz	1.84	grams
Mounting	Adhesive		Adhesive	
Integral Cable	Length	3	ft	914
	Type	TFE		mm
Connector	Type	4-pin		
Housing	Material	Titanium		
Isolation Cup	Material	Anodized Al		
Sensing Element	Material	Ceramic		
	Mode	Shear		

PERFORMANCE

Sensitivity [1], [2], ± 20%	5	mV/g	0.50	mV/m/s2
Acceleration Range	1000	Gpeak	9810	m/s2 peak
Frequency Range, ±5%	0.3 to 6000	Hz	0.3 to 6000	Hz
Frequency Range, ±10%	0.25 to 10000	Hz	0.25 to 10000	Hz
Resonance Frequency	>35	kHz	>35	kHz
Transverse Sensitivity	6	%	6	%
Noise floor	0.06	Grms	0.59	m/s2 rms
Spectral Noise	1Hz	4000	µGrms/sqr(Hz)	39240
	10Hz	2000	µGrms/sqr(Hz)	19620
	100Hz	500	µGrms/sqr(Hz)	4905
	1000Hz	200	µGrms/sqr(Hz)	1962
	10000Hz	90	µGrms/sqr(Hz)	883

ENVIRONMENTAL

Shock	5000	Gpeak	49050	m/s2
Vibration	1200	Gpeak	11772	m/s2
Operating Temperature	-60 to +250	°F	-51 to 121	°C
Seal	Epoxy		Epoxy	
Magnetic Sensitivity at 100 Gauss	0.00004	g/Gauss	0.00039	m/s2/Gauss
Base Strain Sensitivity	0.15	g/µε	1.47	m/s2/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	1.0 to 2.5	seconds	1.0 to 2.5	seconds
Case Isolation, Min	10	GΩ	10,000	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
3133B1	10	500	0.02	-60 to 250	1.0 to 2.5
3133B2	2	2500	0.15	-60 to 300	0.3 to 2.5

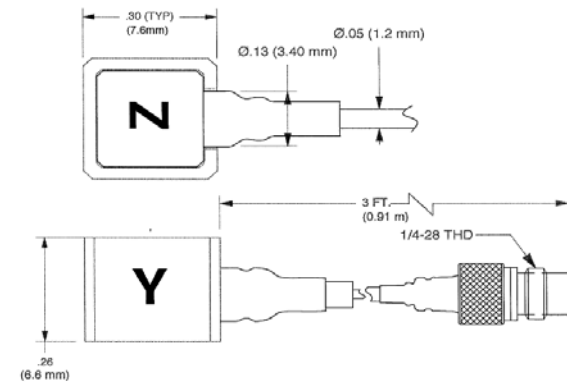
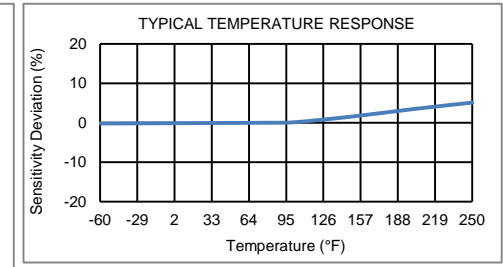
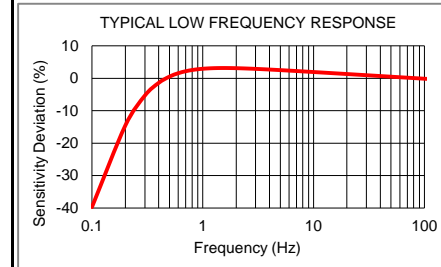
Please, refer to the performance specifications of the products in this family for detailed description

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

