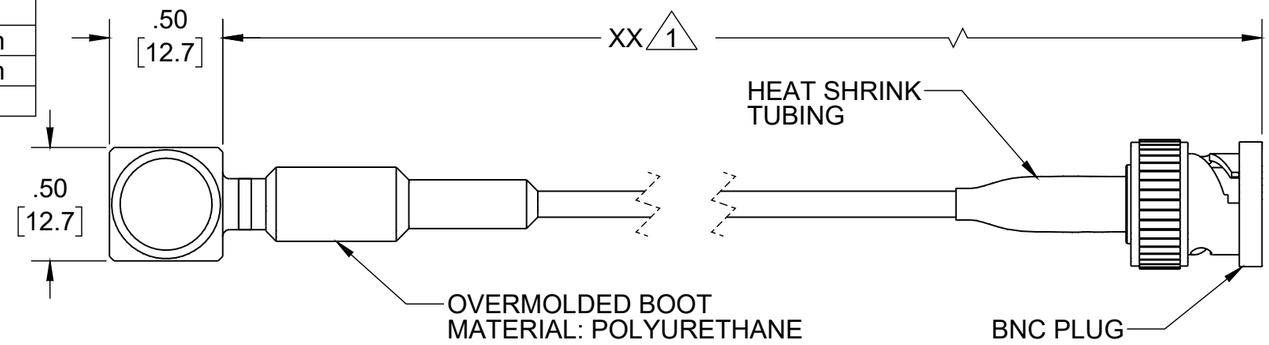
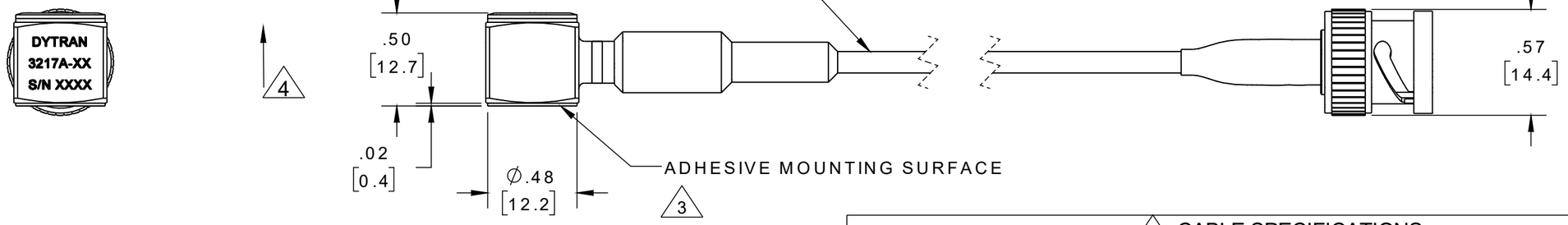
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	12530	INITIAL RELEASE	JS 03/02/16	LA	LN
B	16243	ZONE B2: REMOVED INNER JACKET FROM SPEC. TABLE	NDC 06/29/21	AM	HM

△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%





△2 CABLE SPECIFICATIONS

PRESSURE RATING	200 PSI [1.38 MPa] MAX.
VOLTAGE	600 VOLTS
MINIMUM BEND DIAMETER	6 IN. [152.4mm]
CONDUCTORS	26 AWG- 7/34, POLYPROPYLENE INSULATION, WHITE & BLACK
DRAIN WIRES	26 AWG- 7/34, WATERBLOCKED STRANDING
OUTER JACKET	POLYURETHANE, Ø.115 IN. [2.92mm] NOM., ORANGE
TEMPERATURE RATING	0°C TO 100°C [32°F TO 212°F]
WEIGHT IN AIR	9 LB. / 1000 FT. [4.1 kg / 0.3 km]
WEIGHT IN SEAWATER	4 LB. / 1000 FT. [1.8 kg / 0.3 km]

7. HOUSING MATERIAL: TITANIUM ALLOY.
6. TEMPERATURE RANGE -54°C TO +121°C (-65°F TO +250°F).
5. WEIGHT 8 GRAMS MAX, LESS CABLE.

△4 ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT.

△3 FOR BEST FREQUENCY RESPONSE, PREPARE A FLAT MOUNTING SURFACE OF AT LEAST Ø.50, FLAT TO .001 TIR. APPLY ONE DROP OF CYANOACRYLATE ADHESIVE TO MOUNT THE ACCELEROMETER.

△2 SEE TABLE FOR CABLE SPECIFICATIONS

△1 PART NUMBER 3217A-XX, "XX" DENOTES CABLE LENGTH IN FEET.

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.

63
ALL MACHINED SURFACES.
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.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS [ ] ARE IN MILLIMETERS TOLERANCES ARE:

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

APPROVALS		DATE
ORIG	JS	03/01/16
CHK	LA	03/11/16
APP	LN	04/04/16

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE:
OUTLINE/INSTALLATION DRAWING 3217A-XX

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-3217A-XX	B

SCALE: 3:2 SHEET 1 OF 1

172-0186 REV A

Model Number 3217A-XX	PERFORMANCE SPECIFICATION	DOC NO PS3217A-XX
	IEPE ACCELEROMETERS	REV B, ECN 15025, 05/07/19

- **HIGH FREQUENCY PERFORMANCE**
- **EXCELLENT LINEARITY**
- **HERMETICALLY SEALED MOLDED CABLE BOOT**
- **INTEGRAL CONNECTOR**

	ENGLISH		SI	
PHYSICAL				
Weight, Less Cable, Max	0.18	oz	5	grams
Mounting Provision	Adhesive		Adhesive	
Material, Housing	Titanium Alloy		Titanium Alloy	
Element Style	Crystal Shear Mode		Crystal Shear Mode	
PERFORMANCE				
Sensitivity, ±10% [1]	100	mV/g	10.19	$mV/m/s^2$
Range F.S for ± 5 Volts Output	50	g	490.00	m/s^2
Frequency Range, ±10%	1 to 10000	Hz	1 to 10000	Hz
Resonant Frequency	> 30	kHz	> 30	kHz
Broadband Resolution	0.0004	Grms	0.004	m/s^2 rms
Linearity [2]	± 2%	% F.S.	± 2%	% F.S.
Maximum Transverse Sensitivity	5	%	5	%
Strain Sensitivity, Max	0.004	g/με	0.04	$m/s^2/με$
ENVIRONMENTAL				
Maximum Vibration	±1000	G's,peak	±5886	m/s^2 peak
Maximum Shock	3000	G's,peak	±29430	m/s^2 peak
Temperature Range	-60 to+250	°F	-54 to +121	°C
Seal, Accelerometer	Hermetic		Hermetic	
Electrical				
Supply Current Range [3]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+ 18 to +30	Volts	+ 18 to +30	Volts
Output Impedance, Nom	100	Ω	100	Ω
Bias Voltage	+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant	0.8 to 2.0	Sec	0.8 to 2.0	Sec
Output Signal Polarity for Acceleration Towards Top	Positive		Positive	
Electrical Isolation, Case Ground to Mounting Surface	10	GΩ,min	10	GΩ,min

This family also includes:

Model	Sensitivity	Range F.S ± 5 Volts	Max Vibration/Shock	Resonant Frequency

Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

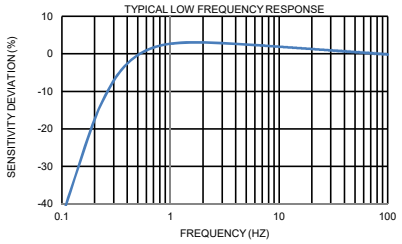
Notes:

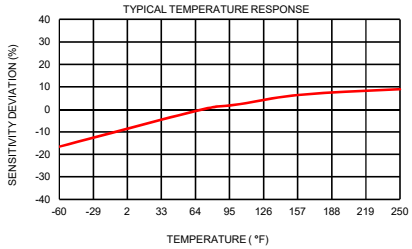
[1] Measured at 100 Hz, 1 Grms per ISA RP 37.2.

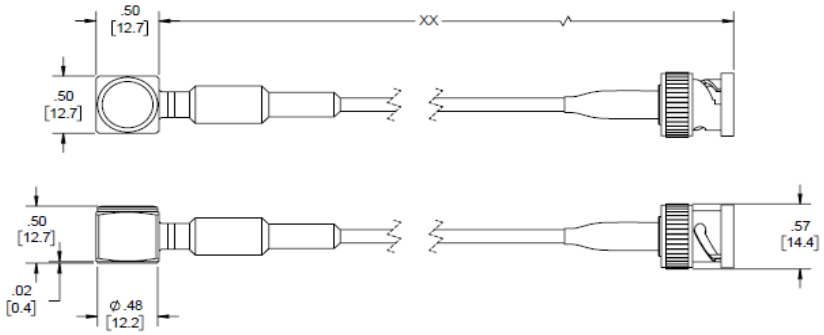
[2] Percent of full scale or any lesser designated full scale range, zero-based best fit straight line method.

[3] Power only with Dytran or Dytran approved current source type power unit. Do not supply power without current limiting. You will destroy the integral electronics. This will void the warranty.

[4] 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 127-3217A-XX for more information.

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