

PROPRIETARY AND CONFIDENTIAL

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DWG NO 127-3623A1T-XX SH 1 REV X1

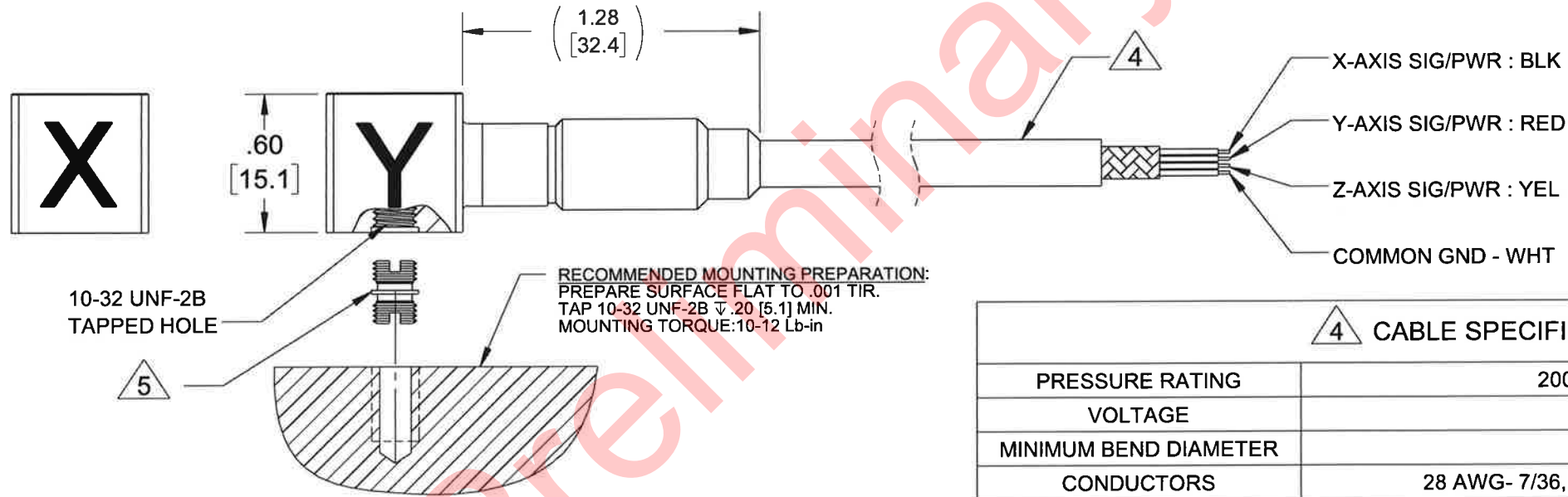
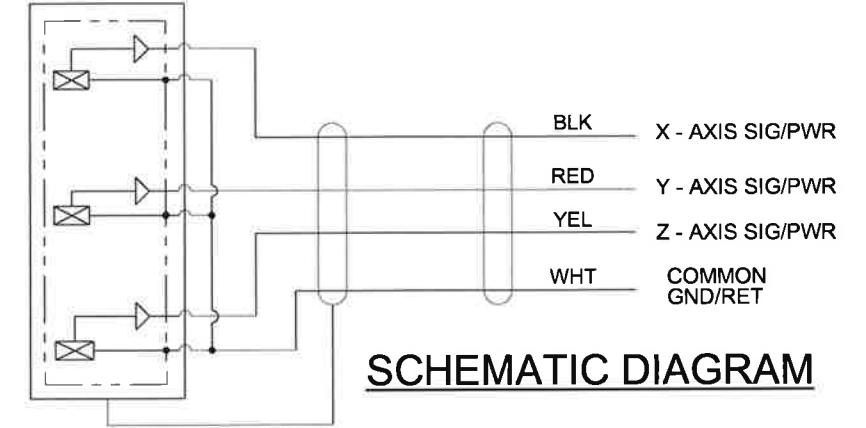
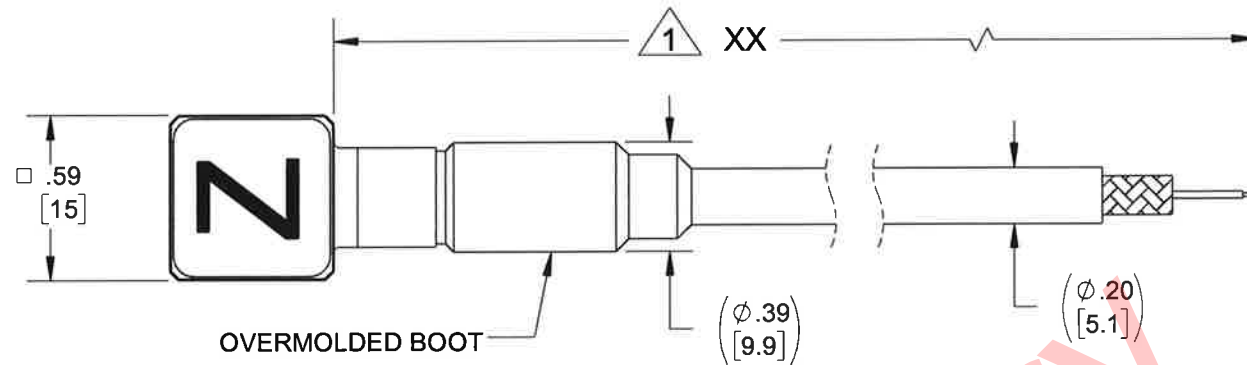
REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
X1		PRELIMINARY RELEASE	NDC 03/30/16	W	R

1 CABLE LENGTH TOLERANCE

≤1FT	+1/ -0 IN
>1 FT - 5 FT	+2/ -0 IN
> 5 FT - 10 FT	+4/ -0 IN
>10 FT - 25FT	+6 / -0 IN
>25 FT	+5% / -0%

MODEL NO	SENSITIVITY
3623A1T-XX	10 mV/g
3623A2T-XX	100 mV/g



4 CABLE SPECIFICATIONS

PRESSURE RATING	200 PSI [1.38 MPa] MAX.
VOLTAGE	600 VOLTS
MINIMUM BEND DIAMETER	6 IN. [152.4mm]
CONDUCTORS	28 AWG- 7/36, POLYPROPYLENE INSULATION
SHIELD	TIN PLATED COPPER BRAID, 90% COVERAGE, WATERBLOCKED
INNER JACKET	WHITE, POLYVINYL CHLORIDE (PVC)
OUTER JACKET	ORANGE, POLYURETHANE, ϕ .200 IN. [5.08mm] NOM.
TEMPERATURE RATING	-55 °C TO 100 °C
WEIGHT IN AIR	22 LB. / 1000 FT.
WEIGHT IN SEAWATER	8 LB. / 1000 FT.

7. RATING: IP68, SUBMERSED TO 175PSI.

6 ARROWS INDICATE DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT

5 MOUNTING STUD, 10-32 TO 10-32, MODEL 6200, SUPPLIED.

4 CABLE, 4 CONDUCTOR, POLYURETHANE. SEE TABLE FOR SPECIFICATIONS.

3. WEIGHT: 18 GRAMS, MAX. (LESS CABLE).

2. TEMPERATURE RATING: -55 °C TO 100°C.

1 PART NUMBER 3623AXT-XX. ("XX" DENOTES 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.

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

APPROVALS		DATE
ORIG	NDC	03/30/16
CHK	W	3/31/16
APP	PT	4/10/16

DO NOT SCALE DRAWING

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, 3623A1T-XX SERIES**

SIZE B	CAGE CODE 2W033	DWG NO 127-3623A1T-XX	REV X1
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SCALE: 4:1 SHEET 1 OF 1



- GROUND ISOLATED
- HERMETICALLY SEALED
- STUD MOUNT
- TEDS CAPABILITY
- IP68 RATED, FULLY SUBMERSIBLE

		ENGLISH			SI
PHYSICAL	Weight, Max. (Less cable)	0.6	oz	18	grams
	Mounting Provision	10-32 Stud Mount		10-32 Stud Mount	
Integral Cable [1]	Type	4x 28AWG, Water-blocked		4x 28AWG, Water-blocked	
	Housing	Titanium		Titanium	
Isolation	Material	Case Isolated		Case Isolated	
	Sensing Element	Ceramic		Ceramic	
		Element		Shear	

		ENGLISH			SI
PERFORMANCE	Sensitivity, ±5% [2]	10	mV/g	1.02	mV/m/s ²
	Acceleration Range, ±	500	Gpeak	4905	m/s ² peak
	Frequency Range, ±5% ±10%	1.4 to 3000	Hz	1.4 to 3000	Hz
		1.9 to 5000	Hz	1.9 to 5000	Hz
	Resonance Frequency	> 30	kHz	> 30	kHz
	Linearity [3]	±1	% F.S.	±1	% F.S.
	Transverse Sensitivity, Max	6	%	6	%
Noise floor	0.007	Grms	0.07	m/s ² rms	

		ENGLISH			SI
ELECTRICAL	Supply Current Range [4]	2 to 20	mA	2 to 20	mA
	Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
	Output Impedance, Typ.	100	Ω	100	Ω
	Output Bias Voltage	+11 to +13	VDC	+11 to +13	VDC
	Discharge Time Constant	0.2 to 1.0	Sec	0.2 to 1.0	Sec

		ENGLISH			SI
ENVIRONMENTAL	Maximum Shock, ±	1000	g pk	9810	m/s ²
	Maximum Vibration, ±	600	g pk	5886	m/s ²
	Operating Temperature	-67 to +212	°F	-55 to +100	°C
	TEDs Operating Temperature	-40 to +185	°F	-40 to +85	°C
	TEDs Feature [6]	IEEE 1451.4		IEEE 1451.4	
	Base Strain Sensitivity	0.002	g/με	0.02	m/s ² /με
	Seal	Hermetic		Hermetic	
Maximum Ambient Pressure	175	psi	1.21	MPa	

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Noise(Grms)	Temp Range (°F)	Time Constant (sec)
3623A2T-XX	100	50	0.0007	-67 to +212	0.2 to 1.0

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

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025).
- 2) Mounting stud model 6200, (10-32 to 10-32), qty 1.

Signature: _____

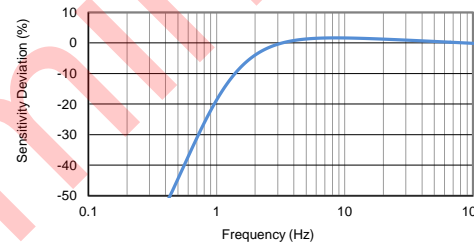
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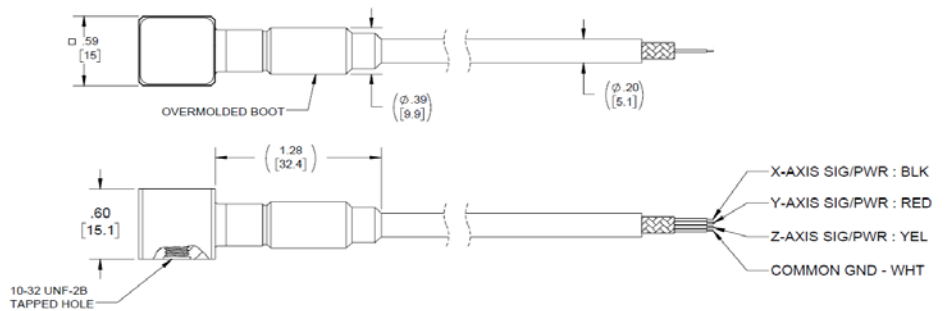
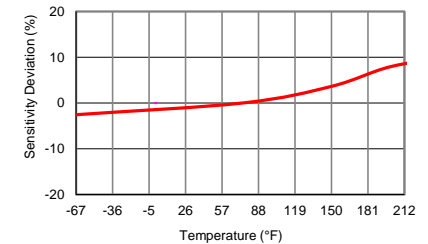
Notes:

- [1] Model number: 3623A1T-XX. "XX" denotes cable length in feet.
- [2] Measured At 100 Hz, 1 Grms per ISA RP 37.2.
- [3] Measured using zero-based best straight-line method.
- [4] Do not apply power to this device without current limiting, 20mA Max, to do so will destroy the integral IC amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- [6] TEDs is unlocked version.

TYPICAL LOW FREQUENCY RESPONSE



TYPICAL TEMPERATURE RESPONSE



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3623A1T-XX for more information.





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PERFORMANCE					
Sensitivity, ±5% [2]		100	mV/g	10.2	mV/m/s ²
Acceleration Range, ±		50	Gpeak	491	m/s ² peak
Frequency Range, ±5%		1.4 to 3000	Hz	1.4 to 3000	Hz
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Resonance Frequency		> 30	kHz	> 30	kHz
Linearity [3]		±1	% F.S.	±1	% F.S.
Transverse Sensitivity, Max		6	%	6	%
Noise floor		0.0007	Grms	0.007	m/s ² rms

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ENVIRONMENTAL					
Maximum Shock, ±		100	g pk	981	m/s ²
Maximum Vibration, ±		60	g pk	589	m/s ²
Operating Temperature		-67 to +212	°F	-55 to +100	°C
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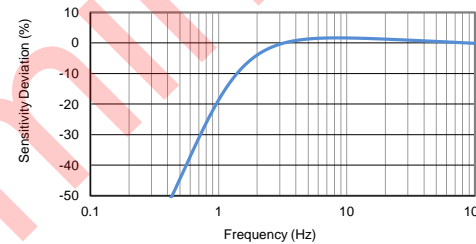
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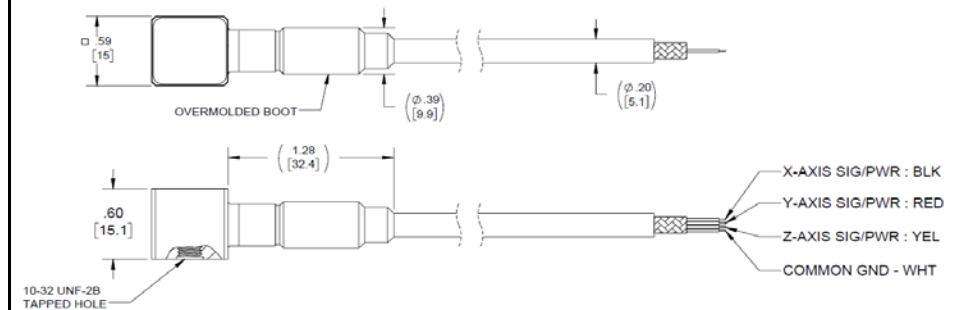
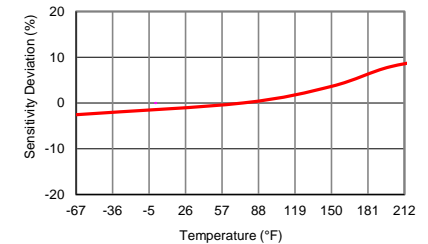
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