

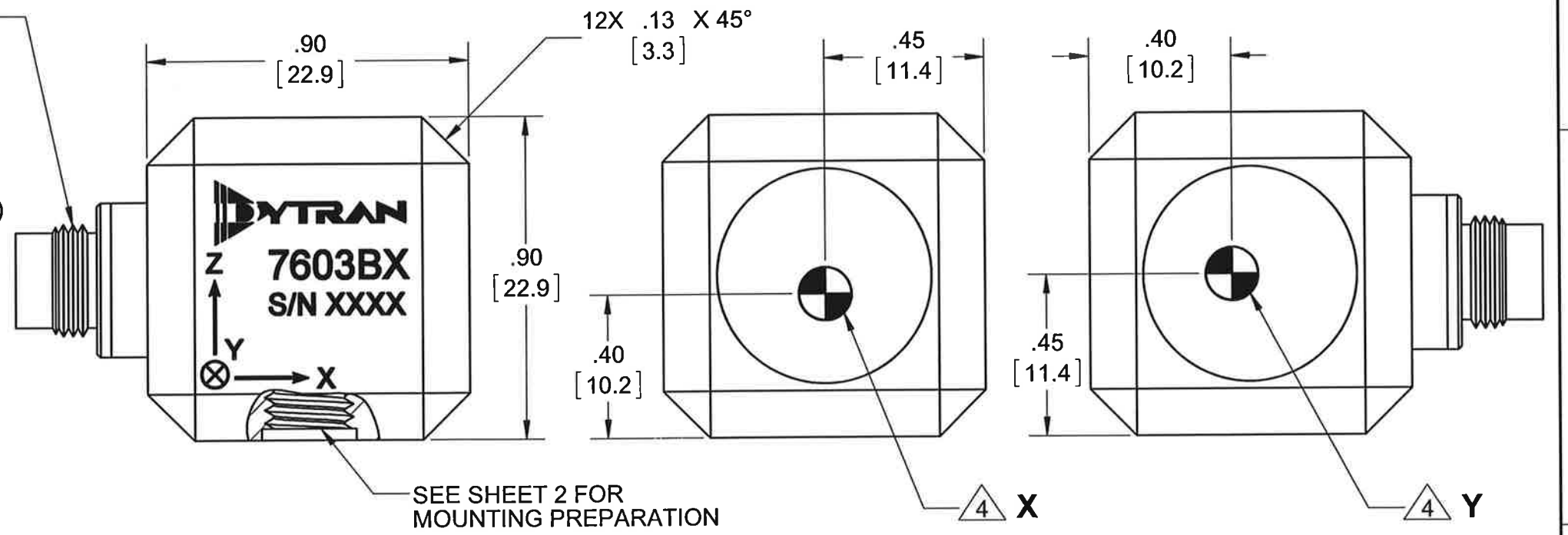
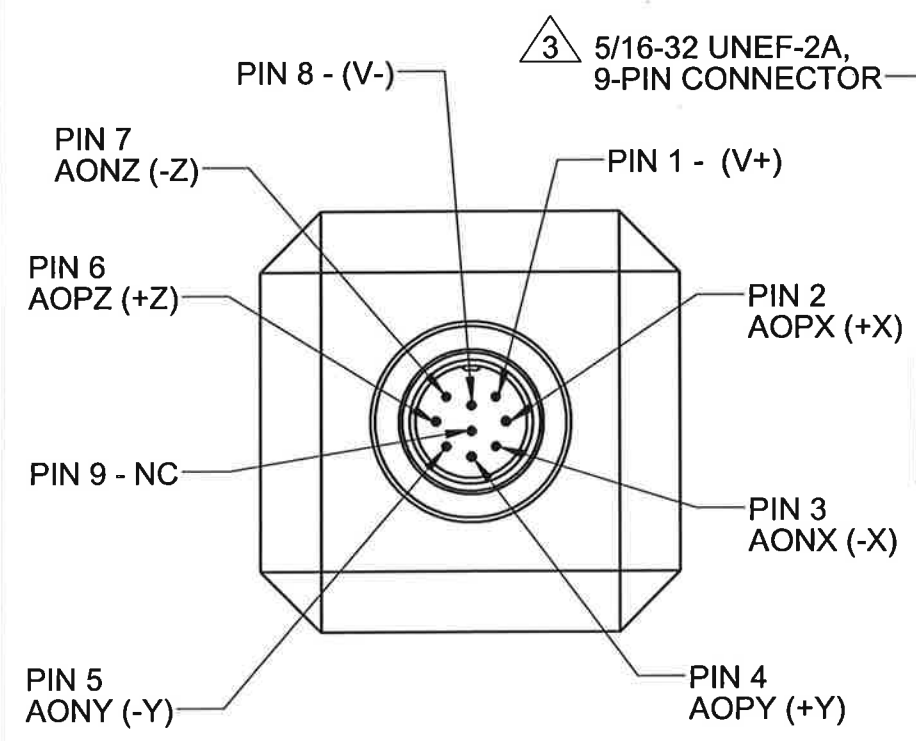
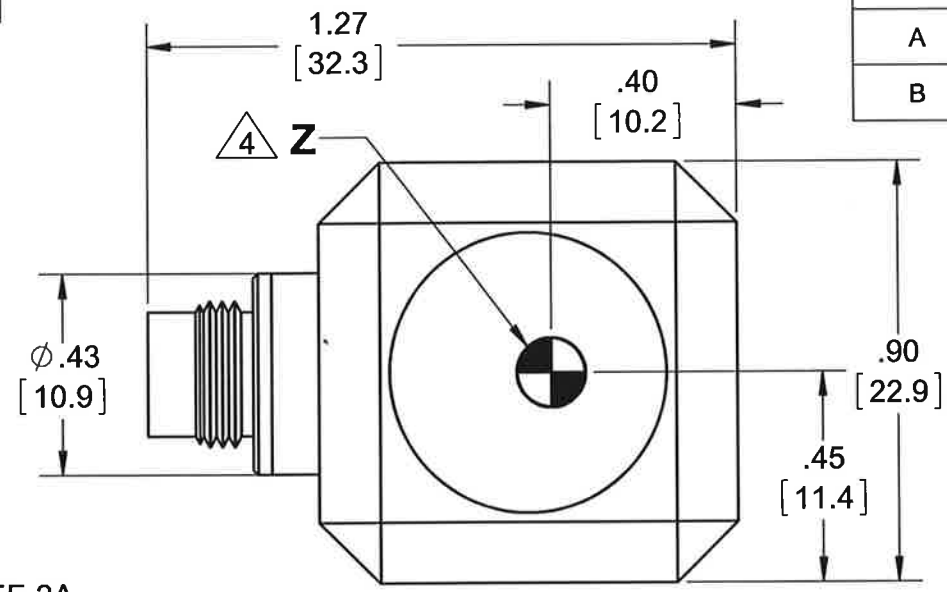
PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10008	INITIAL RELEASE	LN 05/31/13	AB	SA
B	11499	SHEET 2 ADDED: 6691, 6360 WAS: 6204	RA, 10/01/14	EM	SA

MODEL	REV	ECN	DATE	INPUT RANGE
7603B1	B	11499	11/07/14	±2g
7603B2	B	11499	11/07/14	±5g
7603B3	B	11499	11/07/14	±10g
7603B4	B	11499	11/07/14	±25g
7603B5	B	11499	11/07/14	±50g
7603B6	B	11499	11/07/14	±100g
7603B7	B	11499	11/07/14	±200g
7603B8	B	11499	11/07/14	±400g



SEE SHEET 2 FOR MOUNTING PREPARATION

4 MARKING DENOTES LOCATION OF SENSING ELEMENT'S CENTER OF MASS

3 MATES WITH DYTRAN 6964AXX CABLE (XX DENOTES LENGTH IN FT)

2. WEIGHT: 35 GRAMS, MAX.

1. MATERIAL: TITANIUM ALLOY.

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.

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

APPROVALS		DATE
ORIG	LN	04/25/13
CHK	AB	07/01/13
APP	SA	07/16/13

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION USA

**DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED**

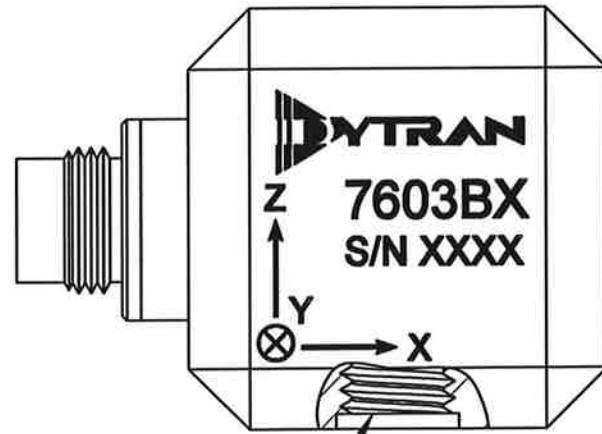
TITLE: **OUTLINE/INSTALLATION DWG, TRIAXIAL DC ACCELEROMETER, 7603B SERIES**

SIZE	CAGE CODE	DWG NO	REV
B	2W033	127-7603B	B

SCALE: 2:1 SHEET 1 OF 2

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1/4-28 UNF-2B

(1/4-28)

(M6 X 1)

STUD, MODEL 6360,  
1/4-28 TO 1/4-28, SUPPLIED

STUD, MODEL 6691,  
1/4-28 TO M6 X 1, SUPPLIED

RECOMMENDED MOUNTING PREPARATION:  
PREPARE FLAT MOUNTING SURFACE,  $\phi$  1.25 [31.2] MIN, FLAT TO .001 TIR.  
TAP 1/4-28 UNF-2B  $\nabla$  .200 [5.1] MIN. TORQUE TO 10-12 Lb-in.

RECOMMENDED MOUNTING PREPARATION:  
PREPARE FLAT MOUNTING SURFACE,  $\phi$  1.25 [31.2] MIN, FLAT TO .001 TIR.  
TAP M6 X 1  $\nabla$  .200 [5.1] MIN. TORQUE TO 10-12 Lb-in.



TITLE: OUTLINE/INSTALLATION DWG,  
TRIAxIAL DC ACCELEROMETER,  
7603B SERIES

SIZE <b>B</b>	CAGE CODE 2W033	DWG NO 127-7603B	REV <b>B</b>
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SCALE: 2:1 PART NO: SHEET 2 OF 2



- VARIABLE CAPACITANCE TECHNOLOGY
- DIFFERENTIAL MODE
- HERMETICALLY SEALED
- DC RESPONSE

**This family also includes:**

Model	Input Range (g)	Frequency response (Hz)	Sensitivity Differential, ±5% (mV/g)	Max.Shock (0.1ms)	Noise Differential (µg/√Hz)
7603B1	±2	0-400	250	2000	7
7603B3	±10	0-1000	50	5000	18
7603B4	±25	0-1500	20	5000	25
7603B5	±50	0-2000	10	5000	50
7603B6	±100	0-2500	5	5000	100
7603B7	±200	0-1750	2.5	5000	200
7603B8	±400	0-2000	1.25	5000	400

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

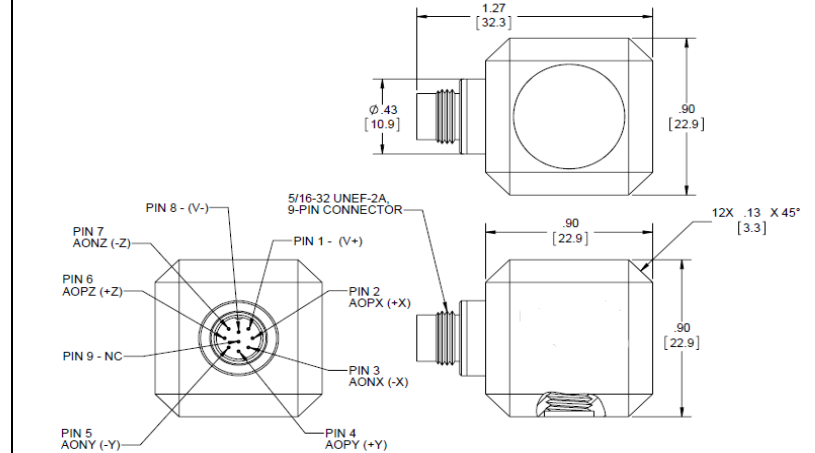
**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting stud, Model 6360, 1/4-28 UNF-2A, Qty 1
- 3) Mounting stud, Model 6691, 1/4-28 UNF-2A to M6 X 1, Qty 1

**Notes:**

- [1] Single ended sensitivity is half of values shown. (Ref. at 100 Hz)
- [2] -90% to +90% of Full Scale.
- [3] Over the rated temperature range.
- [4] Bias voltage equal to (+v - (-v)) / 2
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.

	ENGLISH		SI	
<b>PHYSICAL</b>				
Weight, Max	1.2	oz	35	grams
Connector	Type 9-pin, 5/16-32 UNEF-2A		9-pin, 5/16-32 UNEF-2A	
Material	Titanium Alloy		Titanium Alloy	
Sensing Technology	MEMS		MEMS	
<b>PERFORMANCE</b>				
Input Range	±5	g	±49.1	m/s <sup>2</sup>
Frequency Response (3dB), Nom	0 - 600	Hz	0 - 600	Hz
Resonant Frequency	>3000	Hz	>3000	Hz
Sensitivity Differential, ±5% [1]	100	mV/g	10	mV/m/s <sup>2</sup>
Output Noise, Differential, Typ	12	µg rms/√Hz	118	µ m/s <sup>2</sup> /√Hz
Non-Linearity, Max [2]	0.5	% F.S	0.5	% F.S
Cross Axis Sensitivity, Max	3	%	3	%
<b>ENVIRONMENTAL</b>				
Maximum Mechanical Shock (0.1 ms)	±2000	gpk	±19620	m/s <sup>2</sup> peak
Bias Temperature Shift, Max [3]	111	(ppm of span)/°F	200	(ppm of span)/°C
Bias Calibration Error, Max	4	% of span	4	% of span
Operating Temperature Range	-40 to +250	°F	-40 to +121	°C
Seal	Hermetic		Hermetic	
<b>ELECTRICAL</b>				
Output Common Mode Voltage, ± VDC	[ 4 ]		[ 4 ]	
Output Impedance, Nom	1225	Ω	1225	Ω
Operating Voltage	±3 to ±11	VDC	±3 to ±11	VDC
Operating Current (AOP & AON open), Max	35	mA Dc	35	mA Dc
Power Supply Rejection Ratio	>65	dB	>65	dB



Units on the line drawing are in inches. Refer to 127-7603B for more information.

