

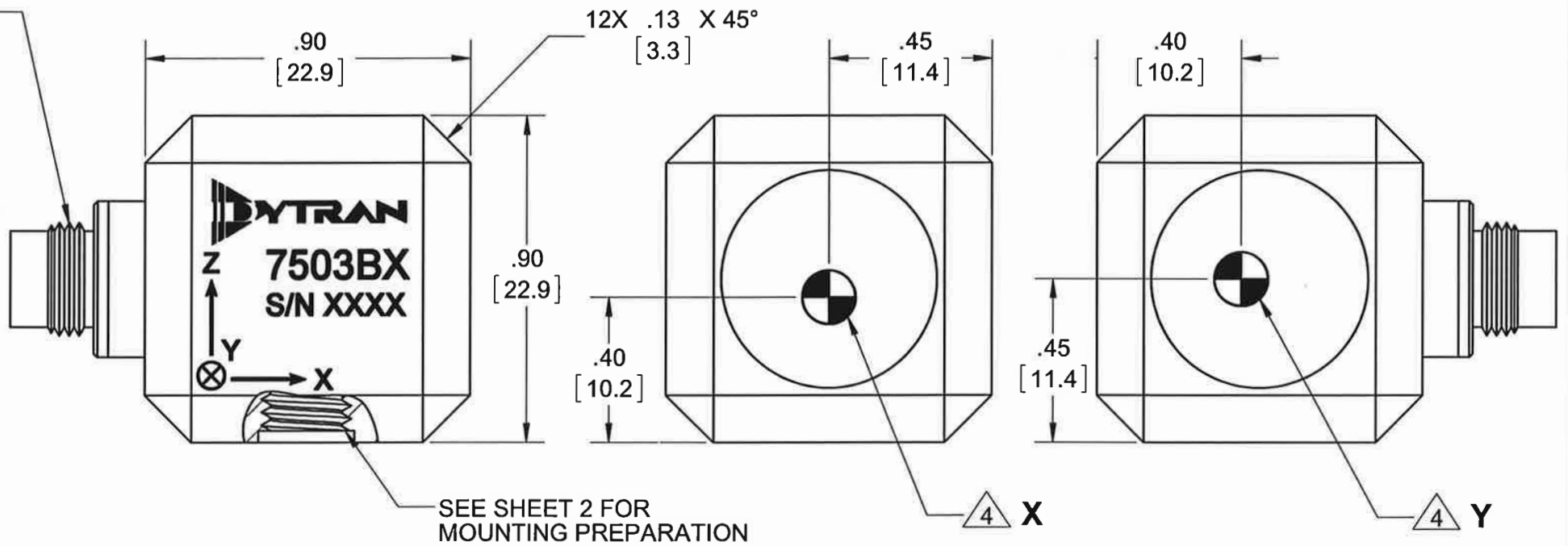
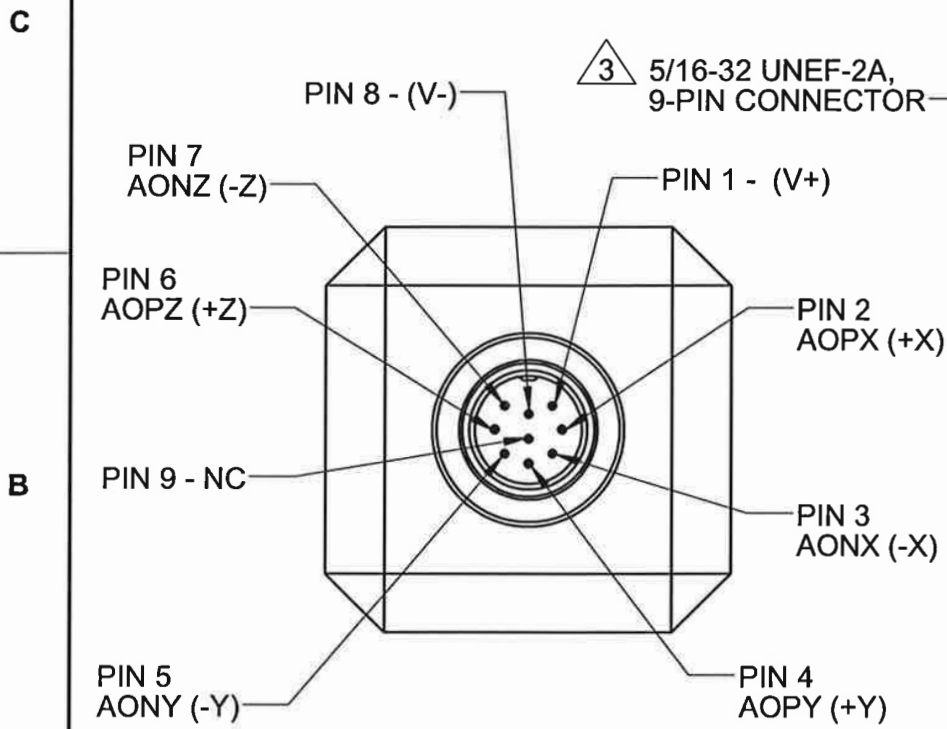
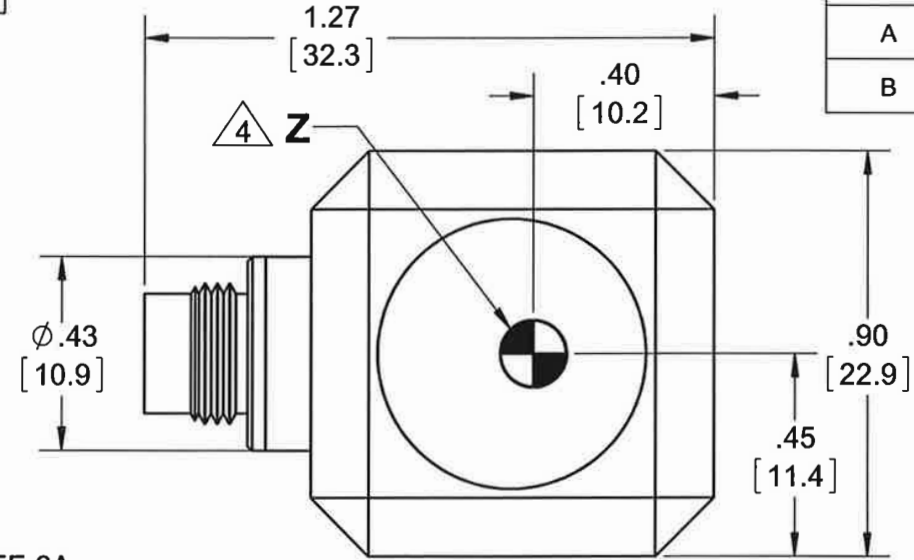
PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10316	INITIAL RELEASE	JS 08/29/13	EM	RT
B	11499	ADDED: 6691, SHEET 2	RA, 11/07/14		RT

MODEL	REV	ECN	DATE	INPUT RANGE
7503B1	B	11499	11/07/14	±2g
7503B2	B	11499	11/07/14	±5g
7503B3	B	11499	11/07/14	±10g
7503B4	B	11499	11/07/14	±25g
7503B5	B	11499	11/07/14	±50g
7503B6	B	11499	11/07/14	±100g
7503B7	B	11499	11/07/14	±200g
7503B8	B	11499	11/07/14	±400g

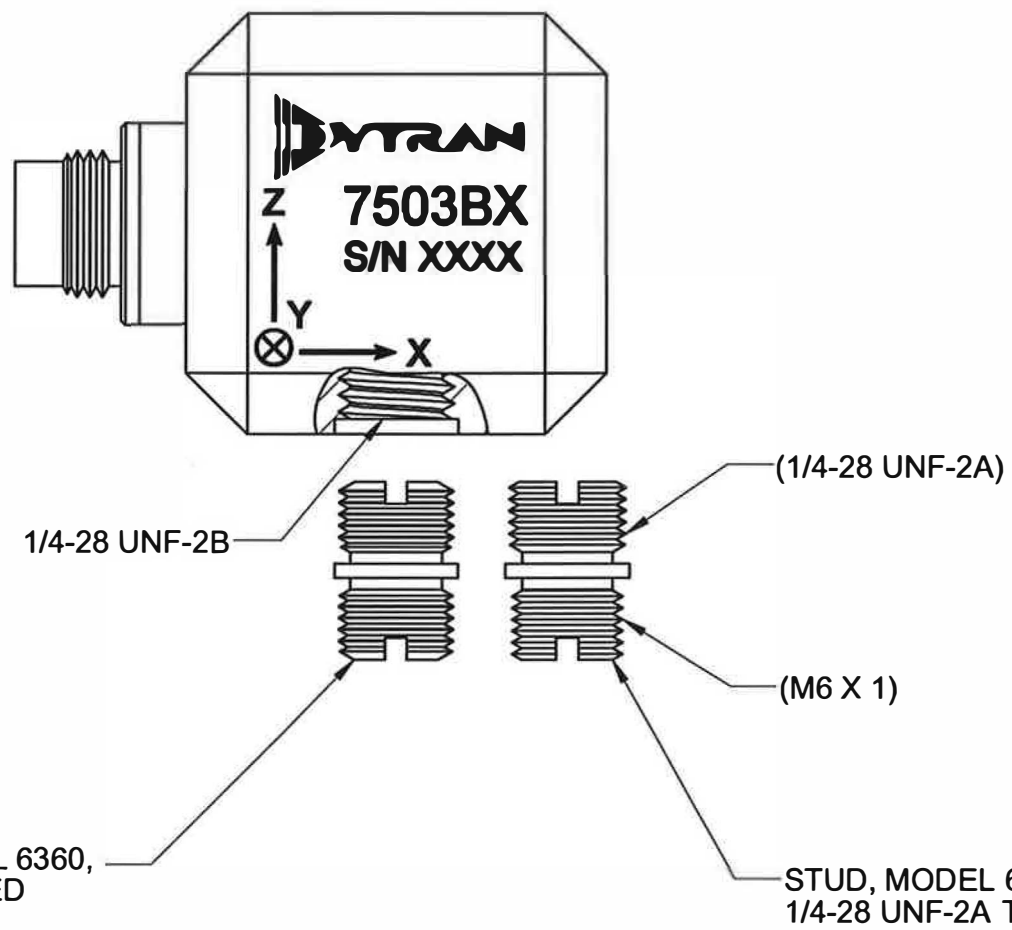


- 4 MARKING DENOTES LOCATION OF SENSING ELEMENT'S CENTER OF MASS
  - 3 MATES WITH DYTRAN 6964AXX CABLE (XX DENOTES LENGTH IN FT)
  - 2. WEIGHT: 35 GRAMS, MAX.
  - 1. MATERIAL: TITANIUM ALLOY.
- NOTES: UNLESS OTHERWISE SPECIFIED

DECIMALS .XX ±.03 .XXX ±.010		ANGLES ±1°		<b>MASTER ONLY IF IN RED</b>	
APPROVALS		DATE		TITLE: OUTLINE/INSTALLATION DWG, TRIAXIAL DC ACCELEROMETER, 7503B SERIES	
ORIG	JS	08/29/13			
CHK	EM	12/03/13			
APP	RT	12/03/13			
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA		SIZE <b>B</b>	CAGE CODE 2W033
				DWG NO 127-7503B	REV <b>B</b>
				SCALE: 2:1	SHEET 1 OF 2

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

STUD, MODEL 6691,  
1/4-28 UNF-2A TO M6 X 1, SUPPLIED

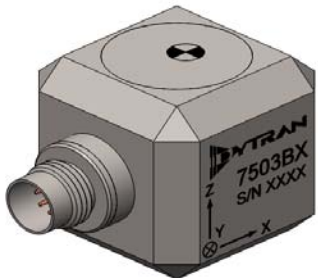
**RECOMMENDED MOUNTING PREPARATION:**  
PREPARE FLAT MOUNTING SURFACE,  $\phi$  1.25 [31.2] MIN, FLAT TO .001 TIR.  
TAP 1/4-28 UNF-2B  $\nabla$  .200 [5.1] MIN. TORQUE TO 10-12 Lb-in.

**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.

		<b>MASTER ONLY IF IN RED</b> Chatsworth, CA	
TITLE: <b>OUTLINE/INSTALLATION DWG, TRIAXIAL DC ACCELEROMETER, 7503B SERIES</b>			
SIZE <b>B</b>	CAGE CODE <b>2W033</b>	DWG NO <b>127-7503B</b>	REV <b>B</b>
SCALE: 2:1	PART NO:	SHEET 2 OF 2	



Presented by: Absolute Gauge Technologies  
sales@absolutegauge.com; www.absolutegauge.com,  
Toronto: 416 754 3168, Montreal: 514 695 5147, Toll Free: 1 888 754 7008



- 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) g (peak)	Noise Differential (µg/√Hz)
7503B1	±2	0-400	2,000	2000	5
7503B2	±5	0-600	800	2000	7
7503B3	±10	0-1000	400	5000	10
7503B4	±25	0-1500	160	5000	25
7503B6	±100	0-2500	40	5000	100
7503B7	±200	0-3000	20	5000	200
7503B8	±400	0-4000	10	5000	400

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

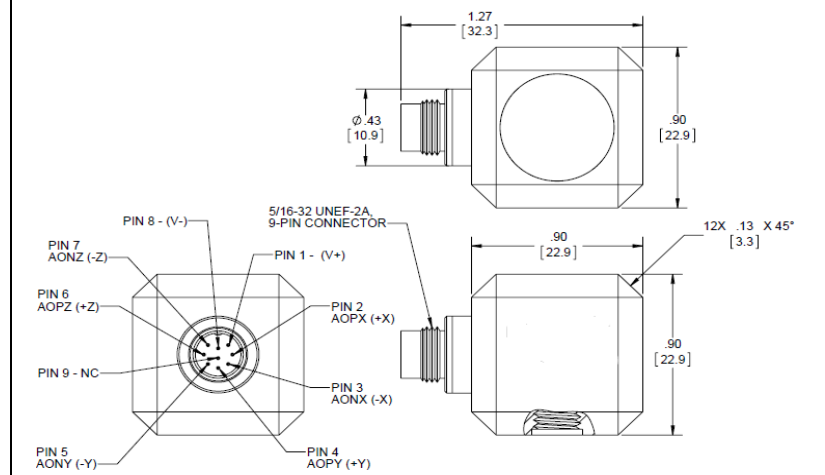
**Supplied Accessories:**

- 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] 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	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	±50	g	±490.5	m/s <sup>2</sup>
Frequency Response (3dB), Nom	0 - 2000		0 - 2000	
Sensitivity Differential, ±5% [1]	80	mV/g	8.2	mV/m/s <sup>2</sup>
Output Noise, Differential, Typ	50	µ g rms/√ Hz	491	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)	5000	gpk	±49050	m/s <sup>2</sup> peak
Bias Temperature Shift ,Max [3]	167	(ppm of span)/°F	300	(ppm of span)/°C
Bias Calibration Error, Max	4	% of span	4	% of span
Operating Temperature Range	-40 to +250		-40 to +121	
Seal	Hermetic		Hermetic	
<b>ELECTRICAL</b>				
Output Common Mode Voltage, Typ	2.5	VDC	2.5	VDC
Output Impedance	<100		Ω	
Operating Voltage	+9 to +36		VDC	
Operating Current (AOP & AON open), Max	35	mA Dc	35	mA Dc
Power Supply Rejection Ratio	>65		dB	



Units on the line drawing are in inches. Refer to 127-7503B for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com  
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 sales@absolutegauge.com; www.absolutegauge.com,  
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