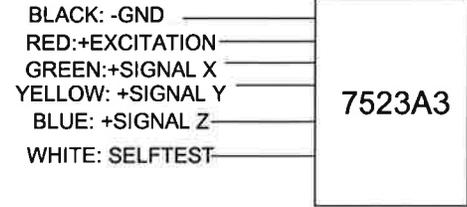
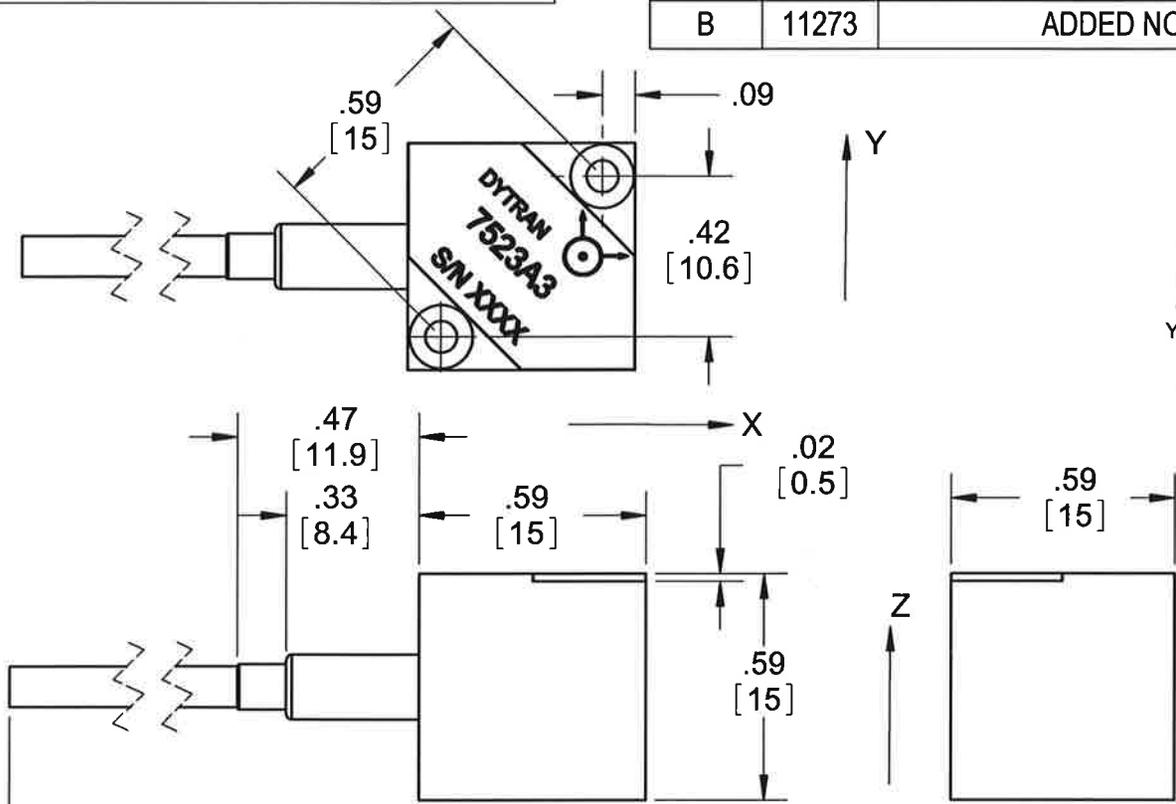


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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6489	INITIAL RELEASE	JS 01/13/10	EP	DV
B	11273	ADDED NOTE 1	AS 09/22/14	RT	LN



WIRING DIAGRAM

CABLE LENGTH
 77.00±6.00
 [1955.8±152.4]

1 RECOMMENDED MOUNTING TORQUE 6-7 LB-IN
NOTE: UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

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.
 THDS PER MIL-S-7742.
 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:
 INCHES METRIC ANGLES
 .XX ± .03 .X ± 0.8 ± 1°
 .XXX ± .010 .XX ± 0.25

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	JS	01/08/10
CHK		
APP		
APP		

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

TITLE: **OUTLINE /INSTALLATION DRAWING 7523A3**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-7523A3	B

SCALE: 2:1 SOLIDWORKS SHEET 1 OF 1

Model Number 7523A3	PERFORMANCE SPECIFICATION	Doc No PS7523A3
Variable Capacitance Triaxial Accelerometer		REV A, ECN 13334, 03/20/17



- **COST EFFECTIVE**
- **MINIATURE**
- **LOW CURRENT CONSUMPTION**

PHYSICAL

Mass
Mounting
Integral cable
Housing

Mounting Screws
Length
Material

ENGLISH		SI	
< 0.53	oz	< 15	grams
M2 x 12 flathead		M2 x 12 flathead	
6.56	ft	2	meter
Anodized Aluminum		Anodized Aluminum	

PERFORMANCE

Sensitivity, ±20% [1]
Input Range
Frequency Range, ±3dB
Resonant Frequency
Non-Linearity
Transverse Sensitivity
Output Noise (typical)

93	mV/g	9.5	mV/m/s ²
±15	G	±147.2	m/s ²
0-1500	Hz	0-1500	Hz
5,000	Hz	5,000	Hz
0.3	%	0.3	%
< 2	%	< 2	%
37.5	mGrms	368	mm/s ² rms

ENVIRONMENTAL

Maximum Mechanical Shock
Operating Temperature
Compensated Temperature Range (CTR)
Thermal Zero Drift in CTR
Thermal Sensitivity Drift in CTR
Storage Temperature
Ingress Protection

4,000	g's, Peak	39,240	m/s ² peak
-67 to +257	°F	-55 to +125	°C
-4 to +158	°F	-20 to +70	°C
< ±0.017	%FS/°F	< ±0.03	%FS/°C
< ±0.011	%FS/°F	< ±0.02	%FS/°C
-67 to +302	°F	-55 to +150	°C
IP 65		IP 65	

Electrical

Current Consumption (nominal)
Excitation, regulated
Output Impedance
Output Bias, ±15%
Output Range
Isolation

500	µA	500	µA
4.8 - 5.2	VDC	4.8 - 5.2	VDC
35	kΩ	35	kΩ
2.5	V	2.5	V
±1.4	V	±1.4	V
Case grounded		Case grounded	

This family also includes:

Model	Sensitivity (mV/g)	Input Range (g)	Output Noise (mGrms)	Frequency Range (Hz)
7523A1	550	±2	15.0	0-1500
7523A2	280	±5	12.5	0-1500
7523A5	36	±50	125	0-400

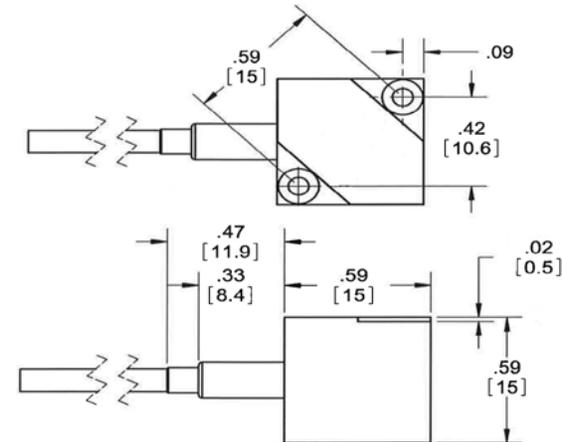
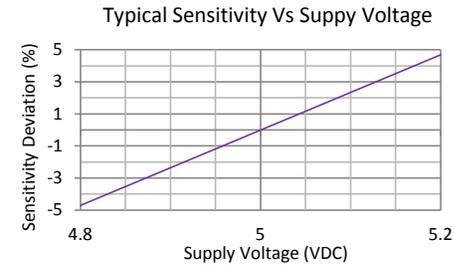
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting Screws, Model 6722, M2 x 12 flathead, qty. 2

Notes:

- [1] Measured at 100 Hz, 5 Grms per ISA RP 37.2



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-7523A3 for more information.



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