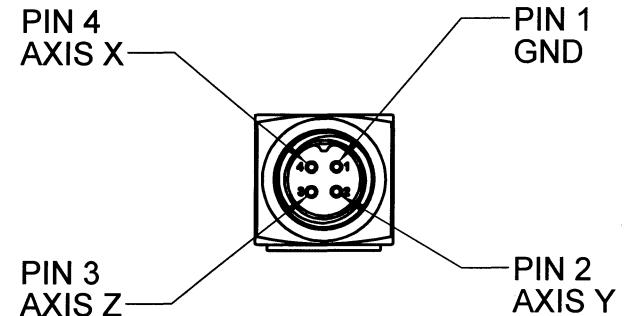
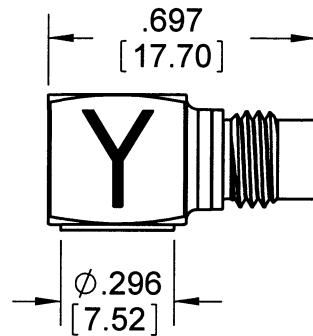
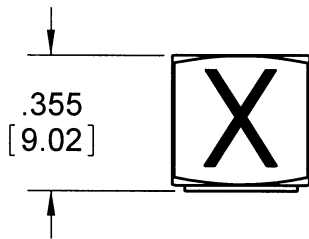
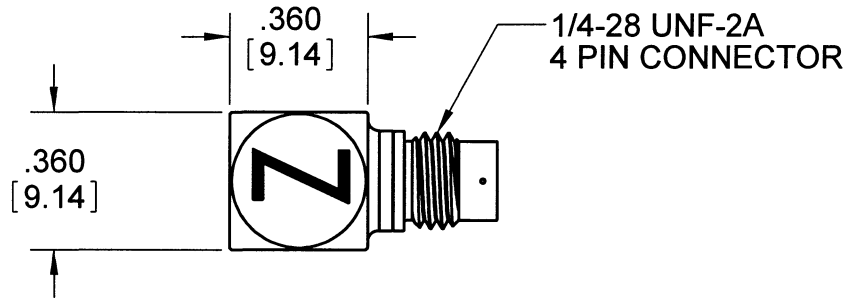


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5806	SEE ECN	JS 03/02/09	PA	DV



5. DIMENSIONS IN BRACKETS ARE IN MM
4. SENSITIVITY: 1mV/g
3. HOUSING/CONNECTOR MATERIAL: TITANIUM
2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
1. WEIGHT 3.0 GRAMS

NOTES: UNLESS OTHERWISE SPECIFIED

MOUNTING RECOMMENDATIONS
 PREPARE A SURFACE AT LEAST .300 BY .300. SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .0001 TIR. USE ONE DROP OF CYANOACRYLATE TO MOUNT THE ACCELEROMETER.

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. TOLERANCES ARE:

DECIMALS	ANGLES
.XX ± .010	± 1°
.XXX ± .005	

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.	
APPROVALS	
ORIG	PML 06/12/05
CHK	ANS 09/29/08
APP	DV 3/5/9
DATE	

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3023A5**

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3023A5	REV B
SCALE: 1:1	SOLIDWORKS	SHEET 1 OF 1	



- MINIATURE SIZE
- EXCELLENT LINEARITY
- ULTRA LOW WEIGHT

PHYSICAL

Weight, Max.
Connector
Mounting Provision
Material, Housing/Connector
Sensing Element
Element Style

ENGLISH		SI	
0.11	oz	3.0	grams
1/4-28 UNF-2A		1/4-28 UNF-2A	
Adhesive Mount		Adhesive Mount	
Titanium Alloy		Titanium Alloy	
Quartz		Quartz	
Shear		Shear	

PERFORMANCE

Sensitivity, ±5%
Range for ± 5 Volts Output
Frequency Response
Resonant Frequency
Broad Band Resolution [5]
Spectral Noise
Linearity [2]
Maximum Transverse sensitivity
Strain Sensitivity @ 250µε

1	mV/g	0.1	mV/m/s ²
±5000	g	±49033	m/s ²
1.5 to 5000	Hz	1.5 to 5000	Hz
-5 / +15%	Hz	1.5 to 10000	Hz
> 40	kHz	> 40	kHz
0.007	Grms	0.07	m/s ² rms
0.03	Grms/√(Hz)	0.29	m/s ² rms/√(Hz)
0.01	Grms/√(Hz)	0.098	m/s ² rms/√(Hz)
0.002	Grms/√(Hz)	0.0196	m/s ² rms/√(Hz)
0.0005	Grms/√(Hz)	0.0049	m/s ² rms/√(Hz)
0.0004	Grms/√(Hz)	0.0039	m/s ² rms/√(Hz)
1	% F.S.	1	% F.S.
5	%	5	%
0.039	g/µε	0.38	m/s ² /µε

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal
Magnetic Sensitivity at 100 Gauss

±6000	Gpeak	±58860	m/s ² peak
±10000	Gpeak	±98100	m/s ² peak
-60 to +250	°F	-51 to +121	°C
Hermetic		Hermetic	
0.00005	g/Gauss	4.905	m/s ² /T

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant
Electrical Isolation

2 to 20	mA	2 to 20	mA
18 to 30	Volts	18 to 30	Volts
100	Ω	100	Ω
7 to 11	VDC	7 to 11	VDC
0.3 to 1.5	Sec	0.3 to 1.5	Sec
Case Grounded		Case Grounded	

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)
3023A	10 (-10 to +15%)	See PS3023A	Adhesive	-60 to +250
3023A1	10 (-10 to +15%)	See PS3023A1	5-40 Tapped Hole	-60 to +250
3023A2	10 (-10 to +15%)	See PS3023A2	10-32 Tapped Hole	-60 to +250
3023A3	5 (-10 to +15%)	See PS3023A3	Adhesive	-60 to +250
3023A4	5 (-10 to +15%)	See PS3023A4	5-40 Tapped Hole	-60 to +250
3023A6	5 (-10 to +15%)	See PS3023A6	10-32 Tapped Hole	-60 to +250
3023A9	1 (±10%)	See PS3023A9	10-32 Tapped Hole	-60 to +250

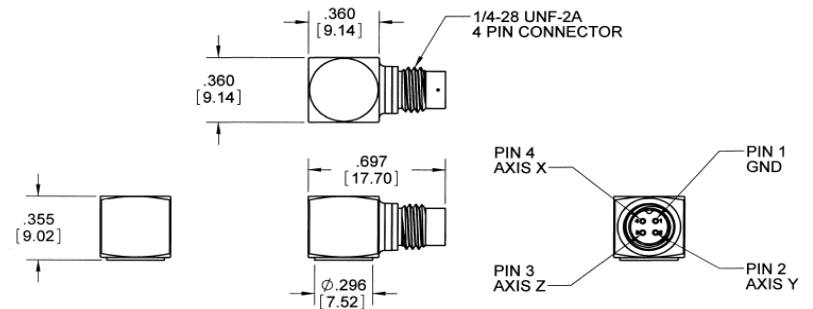
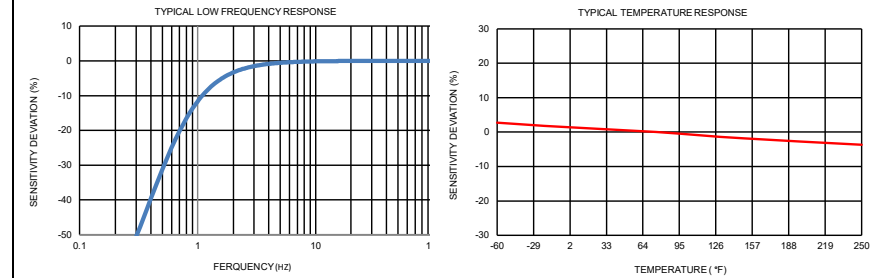
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measured at 100Hz, 10 Grms per ISA RP 37.2.
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [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.
- [5] Typical. Not to exceed .010 Grms [.10 m/s²].



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A5 for more information.

