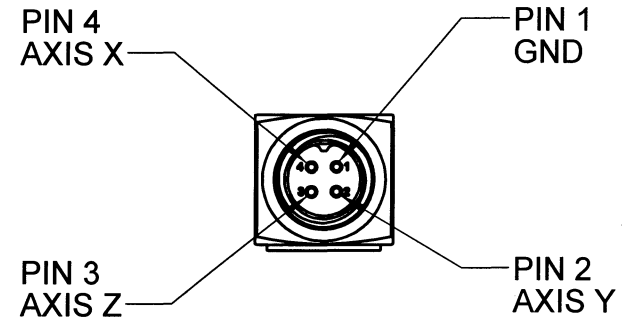
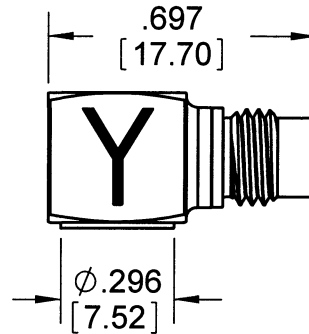
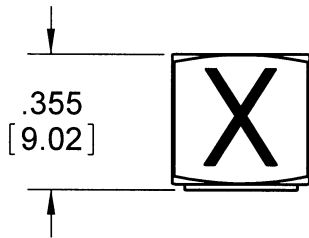
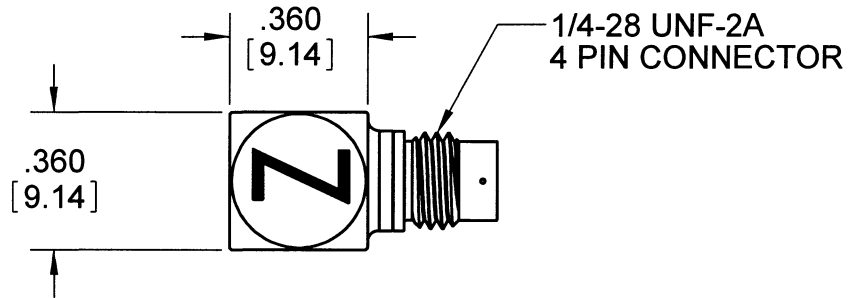


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

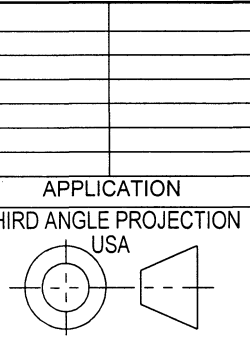
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	5806	SEE ECN	JS 03/02/09	PA	DV



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		DATE
ORIG	PML	06/12/05
CHK	ANS	09/29/08
APP	DV	3/5/9
APP		

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	



- MINATURE 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
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
1.5 to 10000	Hz	1.5 to 10000	Hz
> 40	kHz	> 40	kHz
0.07	Grms	0.69	m/s ² rms
1.25Hz	µGrms/v(Hz)	0.29	µm/s ² rms/v(Hz)
10Hz	µGrms/v(Hz)	0.098	µm/s ² rms/v(Hz)
100Hz	µGrms/v(Hz)	0.0196	µm/s ² rms/v(Hz)
1000Hz	µGrms/v(Hz)	0.0049	µm/s ² rms/v(Hz)
10000Hz	µGrms/v(Hz)	0.0039	µm/s ² rms/v(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

±600	Gpeak	±5884	m/s ² peak
5000	kpeak	49033	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	GΩ,min	Case Grounded	GΩ,min

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Mounting	Operating Temp (°F)
3023A	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A1	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A2	10 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250
3023A3	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A4	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A6	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250
3023A9	1 (±10%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250

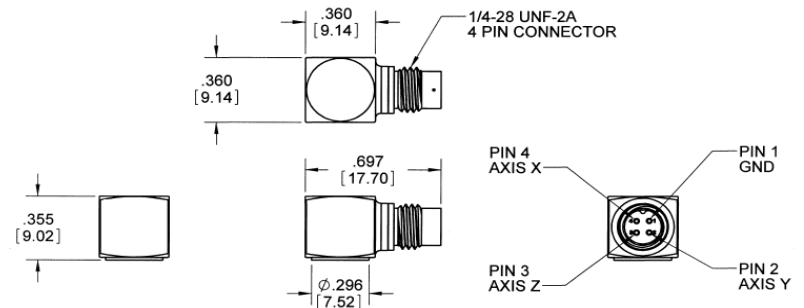
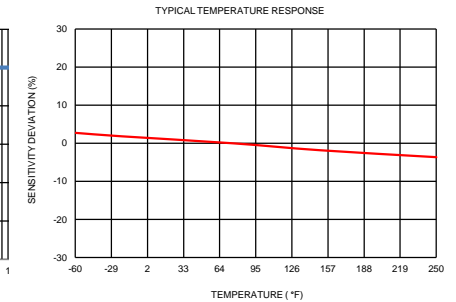
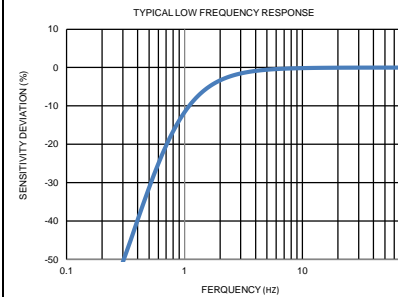
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- Accredited calibration certificate (ISO 17025)

Notes:

- Measured at 100Hz, 1 Grms per ISA RP 37.2.
- Measure using zero-based straight line method, % of F.S. or any lesser range.
- Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- In the interest of constant product improvement, we reserve the right to change specifications without notice.



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

