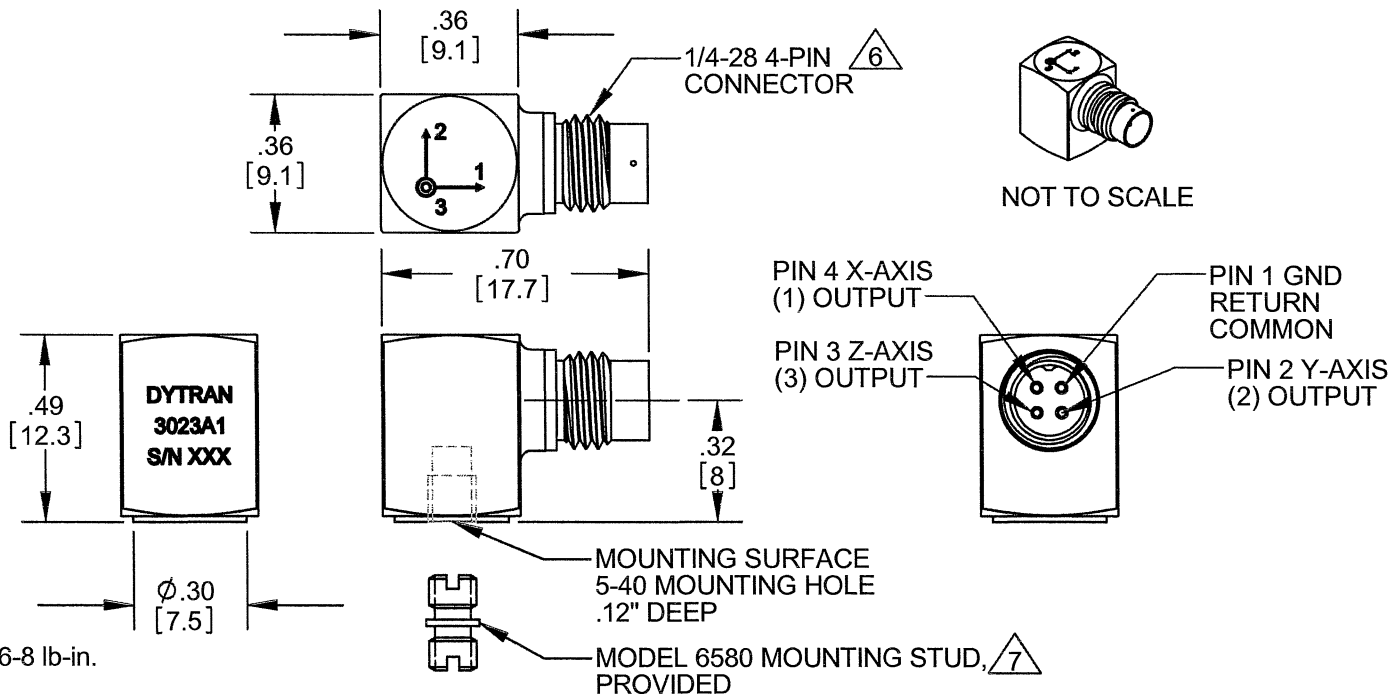


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6250	ADDED NOTES 5, 6, & 7, REFORMATTED	RA, 12/04/09	ey	



7 RECOMMENDED MOUNTING TORQUE 6-8 lb-in.

6 MATES WITH DYTRAN 6811AXX OR 6824AXX CABLE (XX=LENGTH IN FEET)

5. OPERATIONAL TEMPERATURE: RANGE -60° TO +250°F
4. SENSITIVITY: 5mV/G NOMINAL
3. WEIGHT: 4 GRAMS NOM
2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED.

MOUNTING RECOMMENDATIONS:
 PREPARE SURFACE AT LEAST $\phi .30$ [7.5]
 SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .001 TIR. TAP 5-40 UNC-2B ∇ .120 MIN

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
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

MATERIAL	DO NOT SCALE DRAWING
FINISH	

CONTRACT NO.	
APPROVALS	
ORIG	PML 8/18/2005
CHK	PML 8/18/2005
APP	PML 8/18/05
DATE	

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER ONLY IF IN RED

TITLE: **OUTLINE/INSTALLATION DRAWING, MODEL 3023A4**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3023A4	A
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

Model Number

3023A4

PERFORMANCE SPECIFICATIONS

DOC NO

PS3023A4

TRI AXIAL IEPE ACCELEROMETER

REV F, ECN 15563, 02/05/20



- STUD MOUNT
- ULTRA LOW WEIGHT

ENGLISH		SI	
---------	--	----	--

0.14	oz	4.0	grams
4- PIN		4- PIN	
5-40 Tapped Hole		5-40 Tapped Hole	
Titanium Alloy		Titanium Alloy	
Quartz		Quartz	
Shear		Shear	

PHYSICAL

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

PERFORMANCE

Sensitivity, -10 / +15% [1]
Range for ± 5 Volts Output
Frequency Response: X & Y Axes: ±5%
±3dB
Z Axis: ±5%
±15%
Resonant Frequency
Broad Band Resolution
Spectral Noise
1.25Hz
10Hz
100Hz
1000Hz
10000Hz
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µε

5	mV/g	0.5	mV/m/s ²
±1000	g	±9806.65	m/s ²
1.5 to 4000	Hz	1.5 to 4000	Hz
1.5 to 10000	Hz	1.5 to 10000	Hz
1.5 to 4000	Hz	1.5 to 4000	Hz
1.5 to 10000	Hz	1.5 to 10000	Hz
> 40	kHz	> 40	kHz
0.014	Grms	0.137	m/s ² rms
0.006	Grms/v(Hz)	0.06	m/s ² rms/v(Hz)
0.002	Grms/v(Hz)	0.02	m/s ² rms/v(Hz)
0.0004	Grms/v(Hz)	0.004	m/s ² rms/v(Hz)
0.0001	Grms/v(Hz)	0.001	m/s ² rms/v(Hz)
0.00008	Grms/v(Hz)	0.0008	m/s ² rms/v(Hz)
1	% F.S.	1	% F.S.
5	%	5	%
0.006	g/µε	0.06	m/s ² /µε

ENVIRONMENTAL

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

±1200	Gpeak	±11768	m/s ² peak
5000	Gpeak	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
3023A5	1 (±5%)	1.5 to 10000 (-5 to +15%)	Adhesive	-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

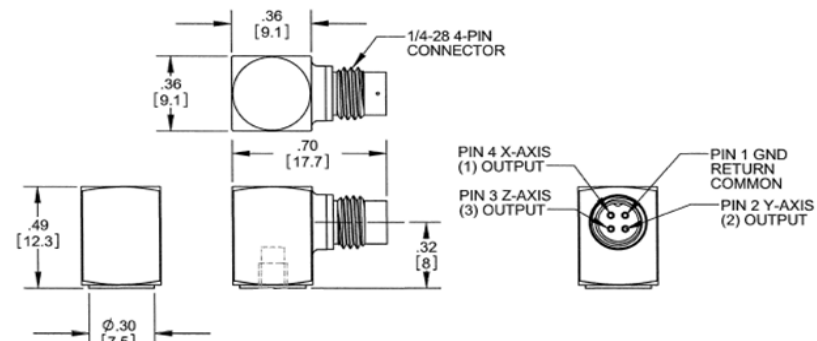
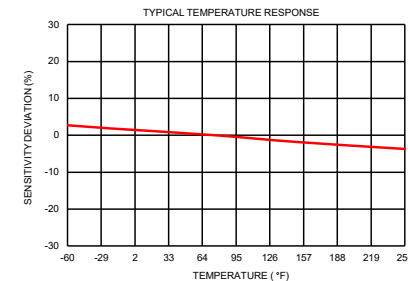
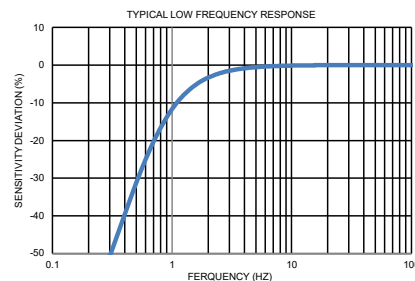
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6580 Mounting Stud, Quantity 1

Notes:

- [1] Measured at 100Hz, 1 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.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A4 for more information.



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