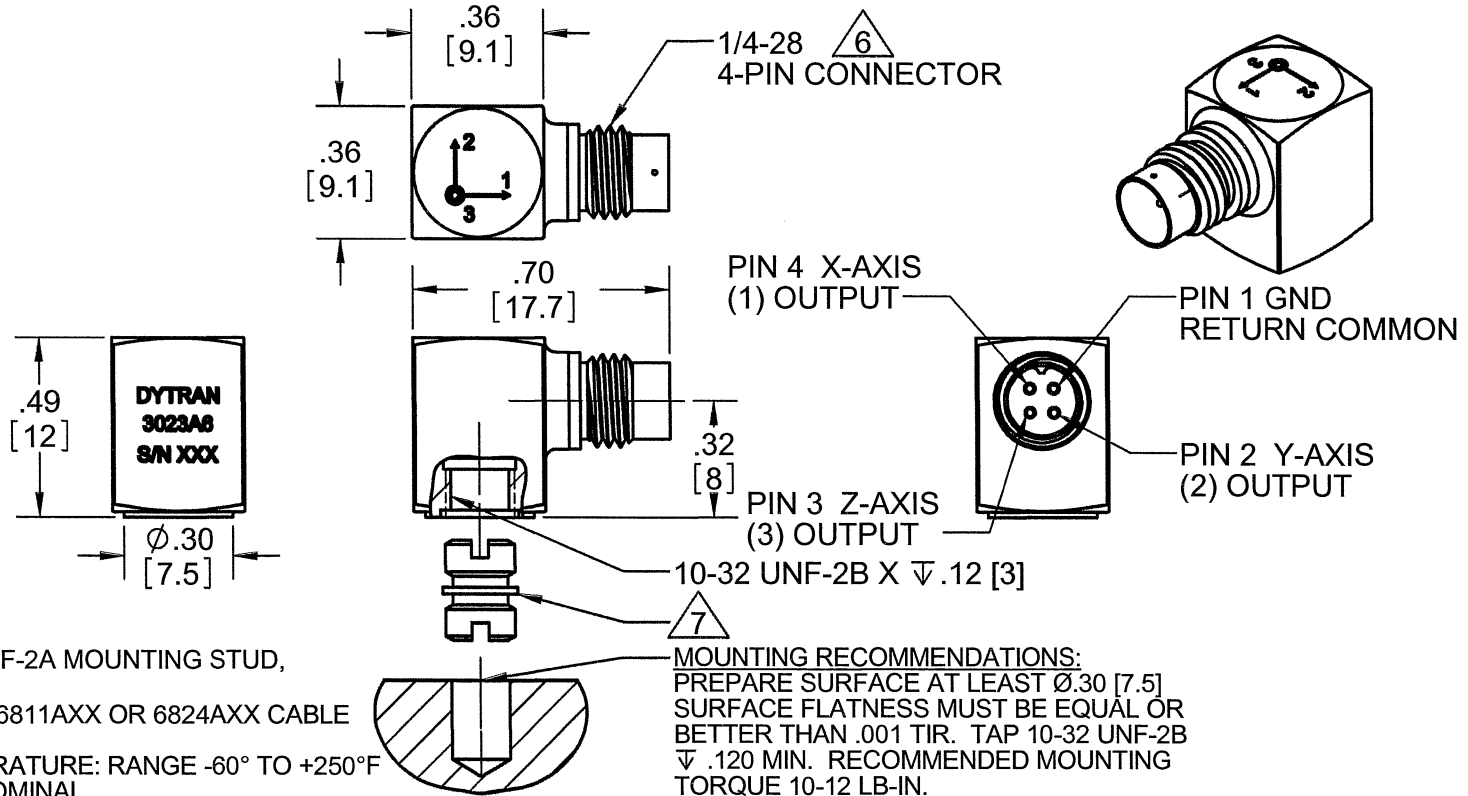


PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	6250	ADDED NOTE 5, 6, 7 AND REFORMATTED	RLA, 11/23/09	<i>Sp</i>	<i>[Signature]</i>



- 7 MODEL 6200, 10-32 UNF-2A MOUNTING STUD, SUPPLIED.
- 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

MOUNTING RECOMMENDATIONS:
 PREPARE SURFACE AT LEAST Ø.30 [7.5]
 SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .001 TIR. TAP 10-32 UNF-2B
 .120 MIN. RECOMMENDED MOUNTING TORQUE 10-12 LB-IN.

NOTES: 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	
ORIG	PML
CHK	CES
APP	CES
DATE	7/26/07
DATE	08/01/07
DATE	08/01/07

DYTRAN INSTRUMENTS, INC. **MASTER ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION, MODEL 3023A6**

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3023A6	B

SCALE: NONE SOLIDWORKS SHEET 1 OF 1

Model Number 3023A6	PERFORMANCE SPECIFICATIONS	DOC NO PS3023A6
TRI AXIAL IEPE ACCELEROMETER		REV E, ECN 13402, 04/18/17



- **STUD MOUNT**
- **EXCELLENT LINEARITY**
- **ULTRA LOW WEIGHT**

PHYSICAL

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

ENGLISH		SI	
0.14	oz	4.0	grams
4- PIN		4- PIN	
10-32 Tapped Hole		10-32 Tapped Hole	
Titanium Alloy		Titanium Alloy	
Quartz		Quartz	
Shear		Shear	

PERFORMANCE

Sensitivity, -10 / +15% [1]
Range for ± 5 Volts Output
Frequency Response ±5%
-5 / +15%
Resonant Frequency
Broad Band Resolution
Spectral Noise 1.25Hz
10Hz
100Hz
1000Hz
10000Hz

5	mV/g	0.51	mV/m/s ²
±1000	g	±9807	m/s ²
1.5 to 4000	Hz	1.5 to 4000	Hz
1.5 to 10000	Hz	1.5 to 10000	Hz
> 40	kHz	> 40	kHz
0.015	Grms	0.147	m/s ² rms
0.006	Grms/v(Hz)	0.059	m/s ² rms/v(Hz)
0.002	Grms/v(Hz)	0.0196	m/s ² rms/v(Hz)
0.0004	Grms/v(Hz)	0.0039	m/s ² rms/v(Hz)
0.0001	Grms/v(Hz)	0.00098	m/s ² rms/v(Hz)
0.00008	Grms/v(Hz)	0.00078	m/s ² rms/v(Hz)
1	% F.S.	1	% F.S.
6	%	6	%
0.006	g/μe	0.06	m/s ² /μe
[5]		[5]	

Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250μe
Signal Polarity

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
3023A4	5 (-10 to +15%)	1.5 to 10000 (-5 to +15%)	5-40 Tapped Hole	-60 to +250
3023A5	1 (±5%)	1.5 to 10000 (-5 to +15%)	Adhesive	-60 to +250
3023A9	1 (±10%)	1.5 to 10000 (-5 to +15%)	10-32 Tapped Hole	-60 to +250

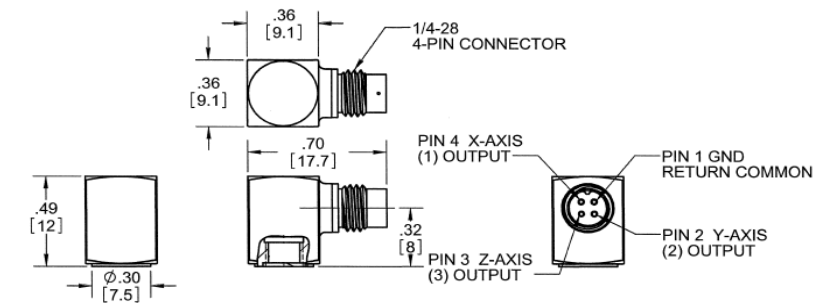
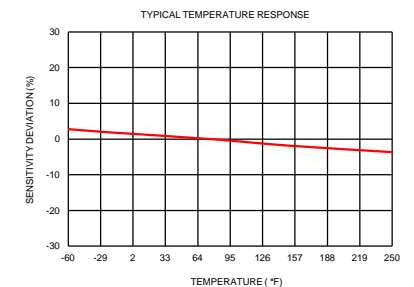
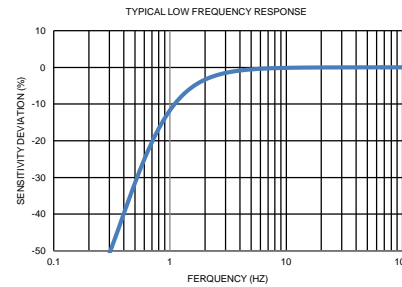
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6200 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.
- [5] Positive for motion in direction of arrows on housing.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A6 for more information.



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com
For permission to reprint this content, please contact info@dytran.com