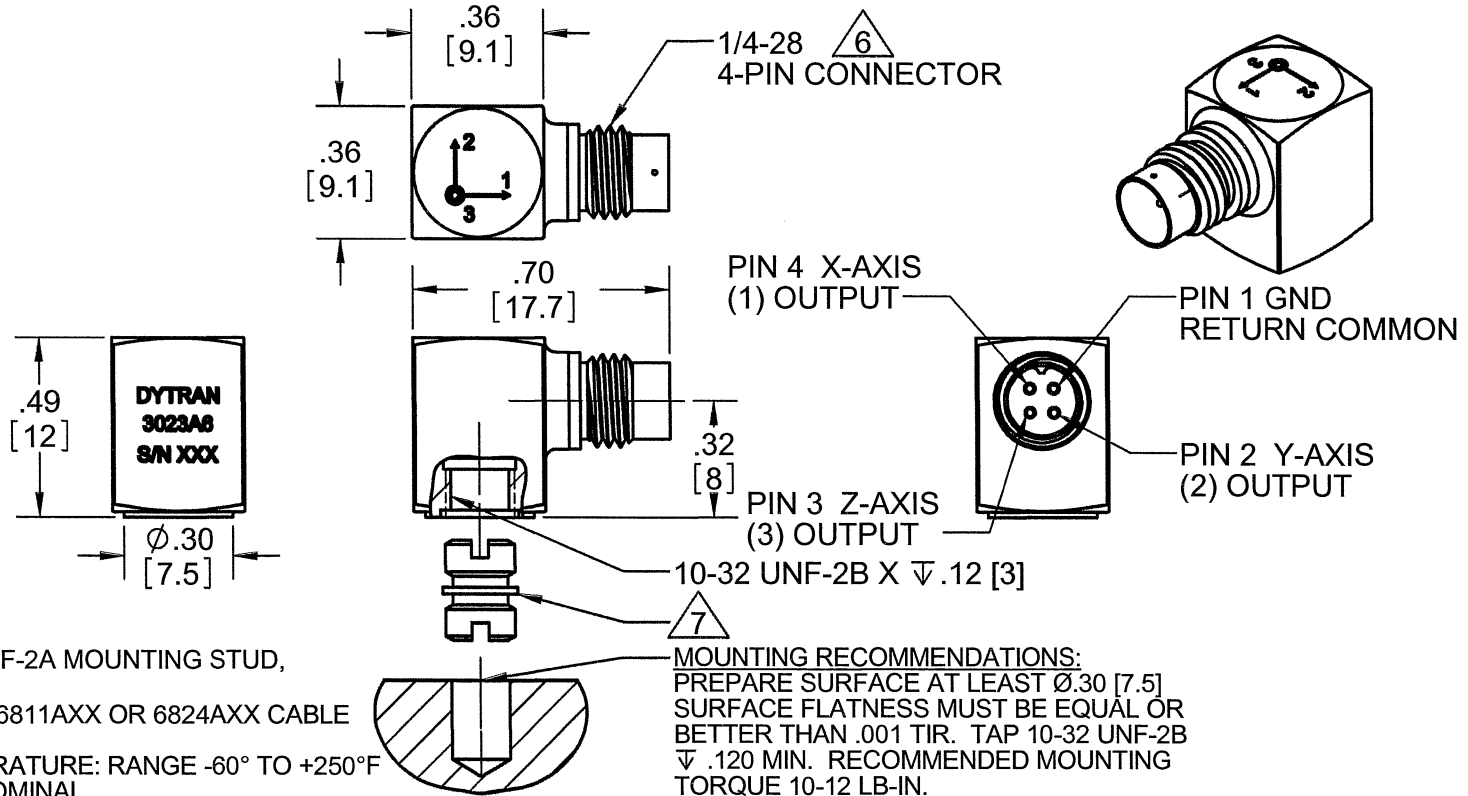


PROPRIETARY AND CONFIDENTIAL

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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.

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		CONTRACT NO.	
USED ON	NEXT ASSY	MATERIAL		APPROVALS	
APPLICATION		FINISH		ORIG	PML
THIRD ANGLE PROJECTION USA		DO NOT SCALE DRAWING		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

	TRIAxIAL IEPE ACCELEROMETER	REV G, ECN 15645, 03/16/20
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- **STUD MOUNT**
- **EXCELLENT LINEARITY**
- **ULTRA LOW WEIGHT**

PHYSICAL

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

	ENGLISH		SI	
Weight, Max.	0.14	oz	4.0	grams
Connector	4-Pin		4-Pin	
Mounting Provision	10-32 Tapped Hole		10-32 Tapped Hole	
Material, Housing/Connector	Titanium Alloy		Titanium Alloy	
Sensing Element	Quartz		Quartz	
Element Style	Shear		Shear	

PERFORMANCE

Sensitivity, -10 / +15% [1]
Range for ± 5 Volts Output
Frequency Response, X & Y Axes
Z-Axis
Resonant Frequency
Broad Band Resolution
Spectral Noise
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µε
Signal Polarity

	ENGLISH		SI	
Sensitivity, -10 / +15% [1]	5	mV/g	0.51	mV/m/s ²
Range for ± 5 Volts Output	±1000	g	±9807	m/s ²
Frequency Response, X & Y Axes	±5%	1.5 to 4,000	1.5 to 4,000	Hz
	±3dB	1.5 to 10,000	1.5 to 10,000	Hz
	±5%	1.5 to 4,000	1.5 to 4,000	Hz
Z-Axis	-5/+15%	1.5 to 10,000	1.5 to 10,000	Hz
Resonant Frequency	> 40	kHz	> 40	kHz
Broad Band Resolution	0.015	Grms	0.147	m/s ² rms
Spectral Noise	1.25Hz	0.006	0.059	m/s ² rms/v(Hz)
	10Hz	0.002	0.0196	m/s ² rms/v(Hz)
	100Hz	0.0004	0.0039	m/s ² rms/v(Hz)
	1000Hz	0.0001	0.00098	m/s ² rms/v(Hz)
	10000Hz	0.00008	0.00078	m/s ² rms/v(Hz)
Linearity [2]	1	% F.S.	1	% F.S.
Maximum Transverse Sensitivity	6	%	6	%
Strain Sensitivity @ 250µε	0.006	g/µε	0.06	m/s ² /µε
Signal Polarity	[5]		[5]	

ENVIRONMENTAL

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

	ENGLISH		SI	
Maximum Vibration	±1200	Gpeak	±11768	m/s ² peak
Maximum Shock	5000	Gpeak	49033	m/s ² peak
Temperature Range	-60 to +250	°F	-51 to +121	°C
Seal	Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss	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

	ENGLISH		SI	
Supply Current Range [3]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	18 to 30	Volts	18 to 30	Volts
Output Impedance, Typ	100	Ω	100	Ω
Bias Voltage	7 to 11	VDC	7 to 11	VDC
Discharge Time Constant	0.3 to 1.5	Sec	0.3 to 1.5	Sec
Electrical Isolation	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
3023A5	1 (±5%)	See PS3023A5	Adhesive	-60 to +250
3023A9	1 (±10%)	See PS3023A9	10-32 Tapped Hole	-60 to +250

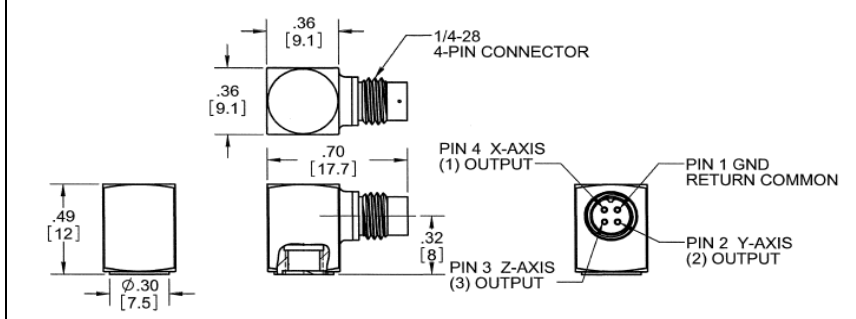
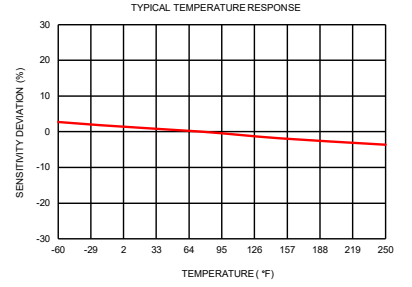
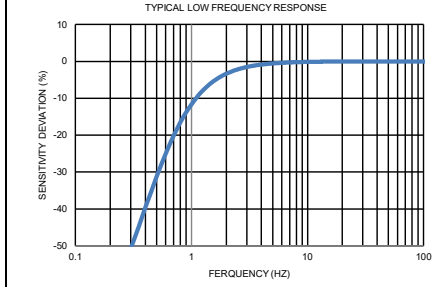
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 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. 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] 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.

