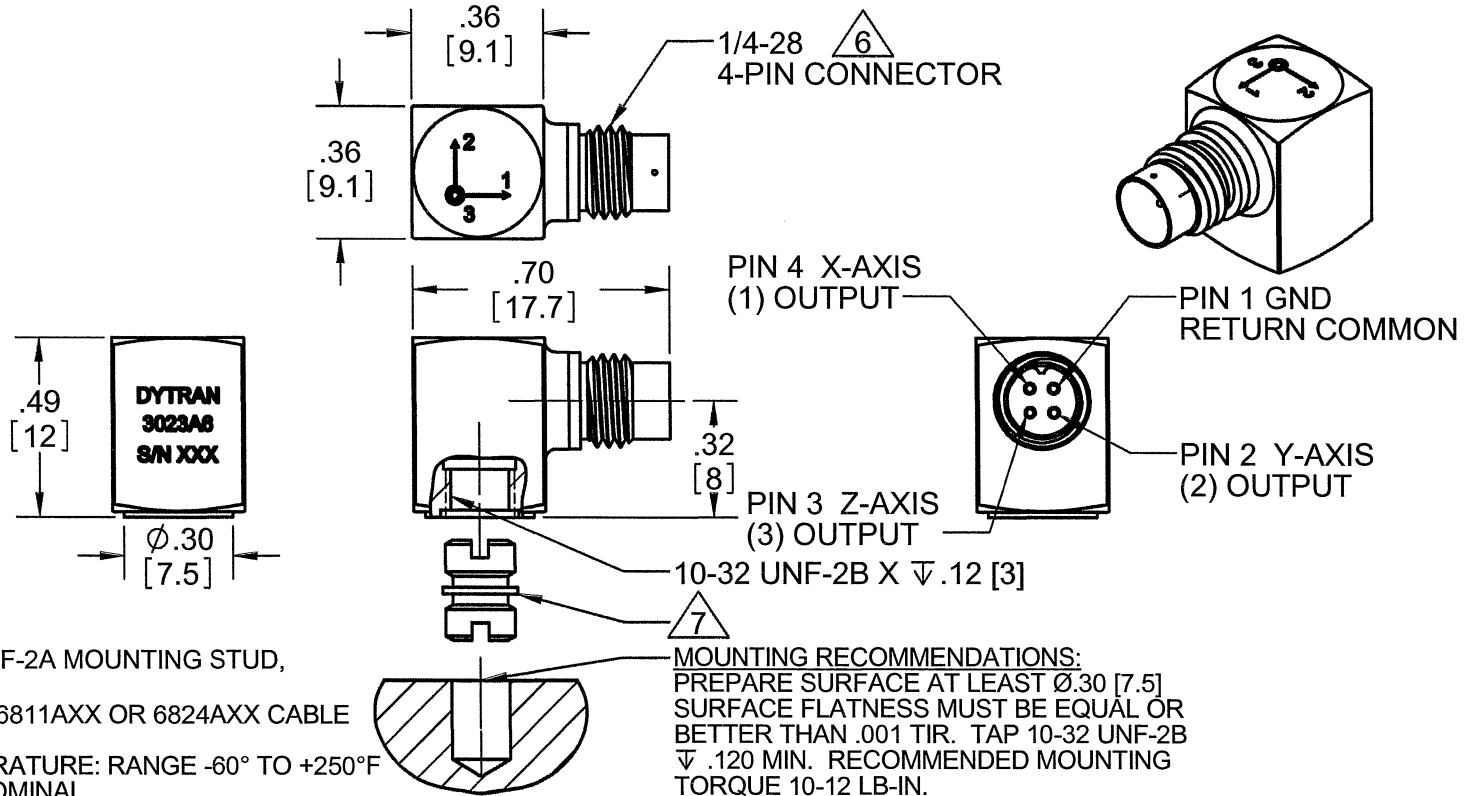


PROPRIETARY AND CONFIDENTIAL

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.

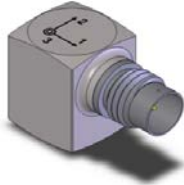
UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .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

	TRI AXIAL IEPE ACCELEROMETER	REV B, ECN 11377, 10/14/2014
--	-------------------------------------	------------------------------



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

PHYSICAL

	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]	5	mV/g	1	mV/m/s ²
Range for ± 5 Volts Output	±1000	g	±9807	m/s ²
Frequency Response	1.5 to 4000	Hz	1.5 to 4000	Hz
	-5 / +15%		1.5 to 10000	Hz
Resonant Frequency	> 40	kHz	> 40	kHz
Broad Band Resolution	0.014	Grms	0.137	m/s ² rms
Spectral Noise	1.25Hz	μGrms/v(Hz)	0.059	μm/s ² rms/v(Hz)
	10Hz	μGrms/v(Hz)	0.0196	μm/s ² rms/v(Hz)
	100Hz	μGrms/v(Hz)	0.0039	μm/s ² rms/v(Hz)
	1000Hz	μGrms/v(Hz)	0.00098	μm/s ² rms/v(Hz)
	10000Hz	μGrms/v(Hz)	0.00078	μm/s ² rms/v(Hz)
Linearity [2]	1	% F.S.	1	% F.S.
Maximum Transverse Sensitivity	5	%	5	%
Strain Sensitivity @ 250με	0.006	g/με	0.06	m/s ² /με

ENVIRONMENTAL

Maximum Vibration	±600	Gpeak	±5884	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]	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	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

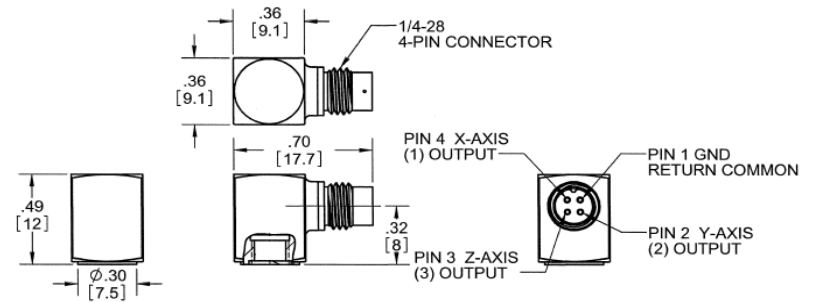
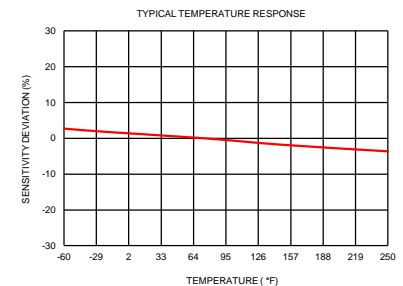
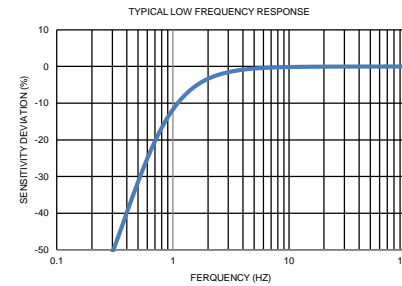
Refer to the performance specifications of the products in this family for detailed description

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.



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

