

PROPRIETARY AND CONFIDENTIAL

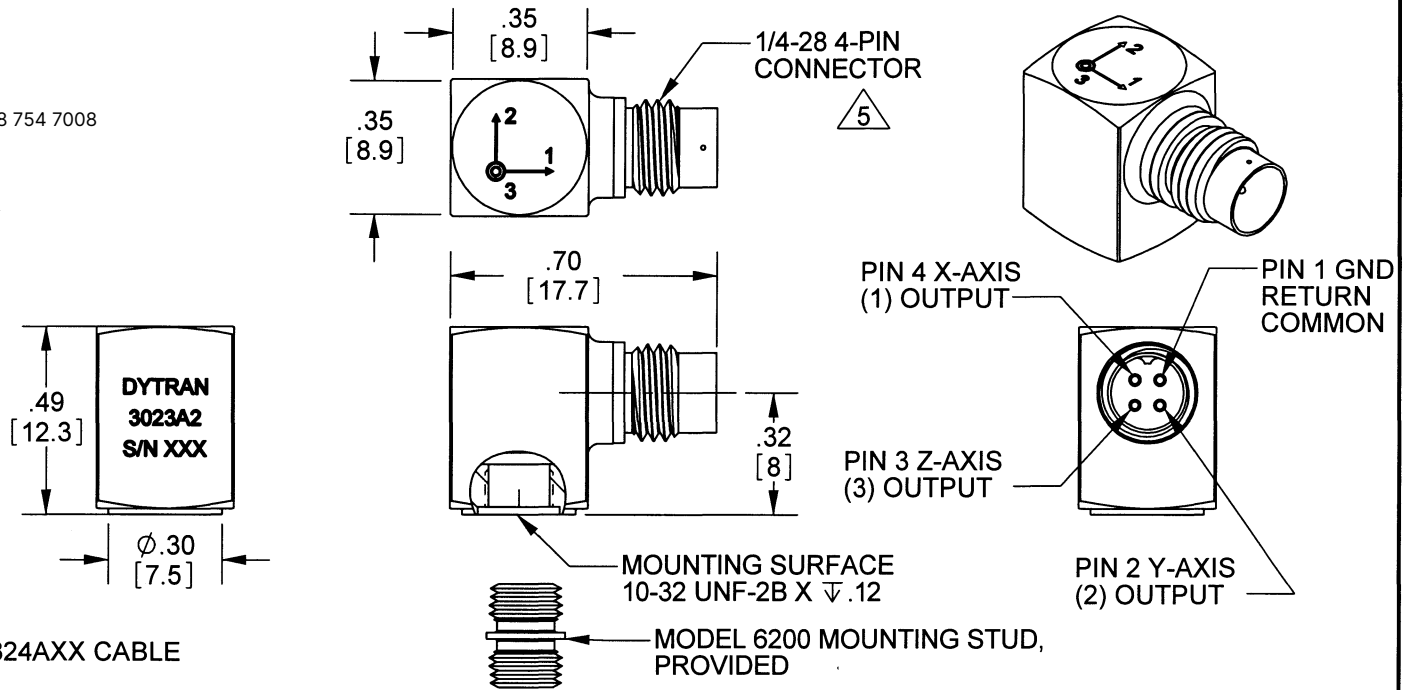
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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6271	SEE ECN	EP 09/23/09	PA	



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

- 4. SENSITIVITY: 10mV/g NOMINAL
- 3. WEIGHT: 4 GRAMS APPROX.
- 2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
- 1. MATERIAL: TITANIUM ALLOY

NOTES: UNLESS OTHERWISE SPECIFIED

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.

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	DO NOT SCALE DRAWING	
FINISH		

CONTRACT NO.		
APPROVALS		DATE
ORIG	RA	01/14/05
CHK	PML	01/14/05
APP	PML	01/14/05
APP		

DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED

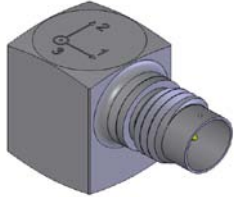
TITLE: **OUTLINE/INSTALLATION DRAWING, 3023A2**

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3023A2	REV A
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

Model Number 3023A2	PERFORMANCE SPECIFICATIONS	DOC NO PS3023A2
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TRI AXIAL IEPE ACCELEROMETER

REV B, ECN 11377, 10/14/14



- **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

	ENGLISH		SI	
Sensitivity, -10 / +15% [1]	10	mV/g	1	mV/m/s ²
Range for ± 5 Volts Output	±500	g	±4903	m/s ²
Frequency Response	±5%	1.5 to 4000	Hz	Hz
	-5 / +15%	1.5 to 10000	Hz	Hz
Resonant Frequency	> 40	kHz	> 40	kHz
Broad Band Resolution	0.007	Grms	0.069	m/s ² rms
Spectral Noise	1.25Hz	μGrms/v(Hz)	0.029	μm/s ² rms/v(Hz)
	10Hz	μGrms/v(Hz)	0.0098	μm/s ² rms/v(Hz)
	100Hz	μGrms/v(Hz)	0.00196	μm/s ² rms/v(Hz)
	1000Hz	μGrms/v(Hz)	0.00049	μm/s ² rms/v(Hz)
	10000Hz	μGrms/v(Hz)	0.00004	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

	ENGLISH		SI	
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

	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	150	Ω	150	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
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
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

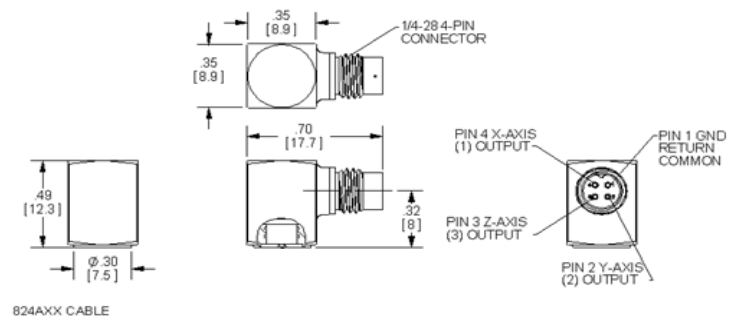
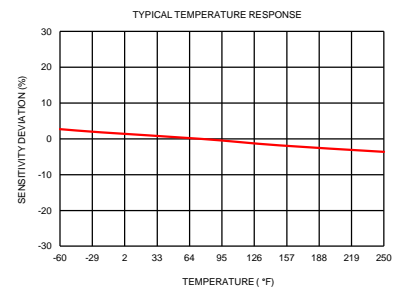
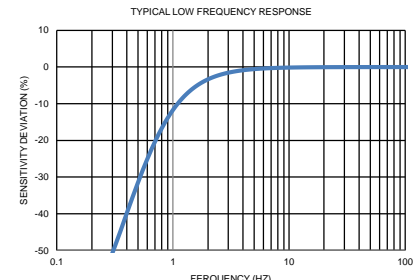
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 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 127-3023A2 for more information.



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