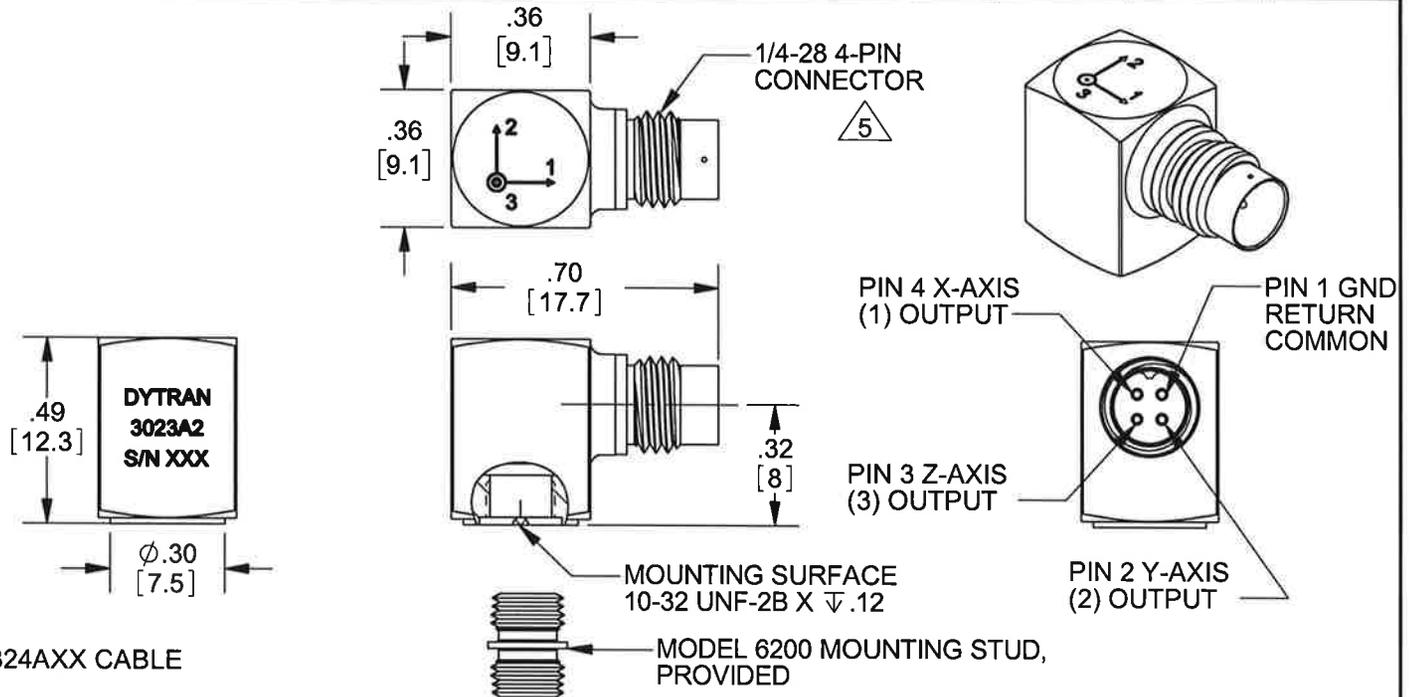


**PROPRIETARY AND CONFIDENTIAL**

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**REVISIONS**

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	13153	SEE ECN	JB 11/30/16	Em	AS



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  $\phi$ .30 [7.5]  
 SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .001 TIR. TAP 10-32 UNF-2B  $\nabla$ .120 MIN RECOMMENDED MOUNTING TORQUE 10-12 LB-IN.

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 ± 0.10 .XX ± 0.25
USED ON	NEXT ASSY
APPLICATION	
THIRD ANGLE PROJECTION USA	

MATERIAL	
FINISH	
DO NOT SCALE DRAWING	

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

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

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

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



- **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/+15%  
Resonant Frequency  
Broad Band Resolution [6]  
Spectral Noise  
Linearity [2]  
Maximum Transverse Sensitivity  
Strain Sensitivity @ 250µε  
Signal Polarity

ENGLISH		SI	
10	mV/g	1	mV/m/s <sup>2</sup>
±500	g	±4903	m/s <sup>2</sup>
1.5 to 4000	Hz	1.5 to 4000	Hz
1.5 to 10000	Hz	1.5 to 10000	Hz
> 40	kHz	> 40	kHz
0.007	Grms	0.069	m/s <sup>2</sup> rms
0.003	Grms/√(Hz)	0.029	m/s <sup>2</sup> rms/√(Hz)
0.001	Grms/√(Hz)	0.0098	m/s <sup>2</sup> rms/√(Hz)
0.0002	Grms/√(Hz)	0.00196	m/s <sup>2</sup> rms/√(Hz)
0.00005	Grms/√(Hz)	0.00049	m/s <sup>2</sup> rms/√(Hz)
0.00004	Grms/√(Hz)	0.00039	m/s <sup>2</sup> rms/√(Hz)
1	% F.S.	1	% F.S.
6	%	6	%
0.006	g/µε	0.06	m/s <sup>2</sup> /µε
[5]		[5]	

**ENVIRONMENTAL**

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

±600	Gpeak	±5884	m/s <sup>2</sup> peak
5000	Gpeak	49033	m/s <sup>2</sup> peak
-60 to +250	°F	-51 to +121	°C
Hermetic		Hermetic	
0.00005	g/Gauss	4.905	m/s <sup>2</sup> /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 - 1.5	Sec	0.3 - 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
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

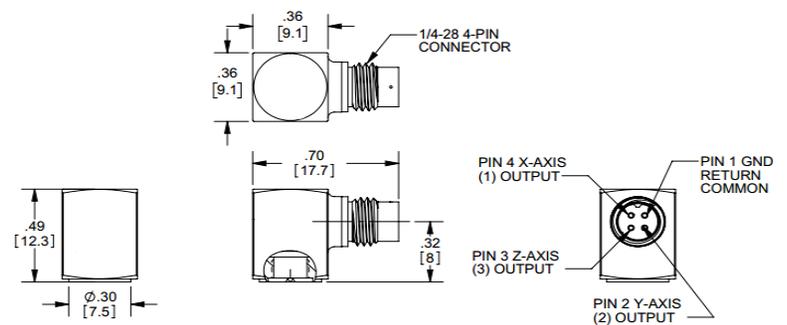
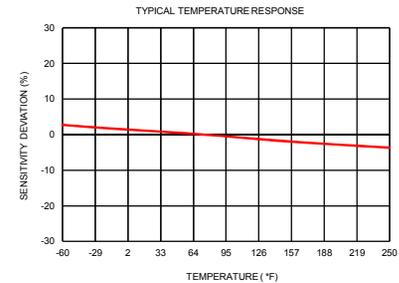
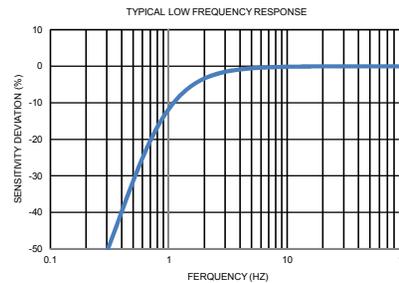
Refer to the performance specifications of the products in this family for detailed description

**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.
- [5] Positive for motion in direction of arrows on housing.
- [6] Typical. Not to exceed .010 Grms [10 m/s<sup>2</sup>].



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023A2 for more information.

