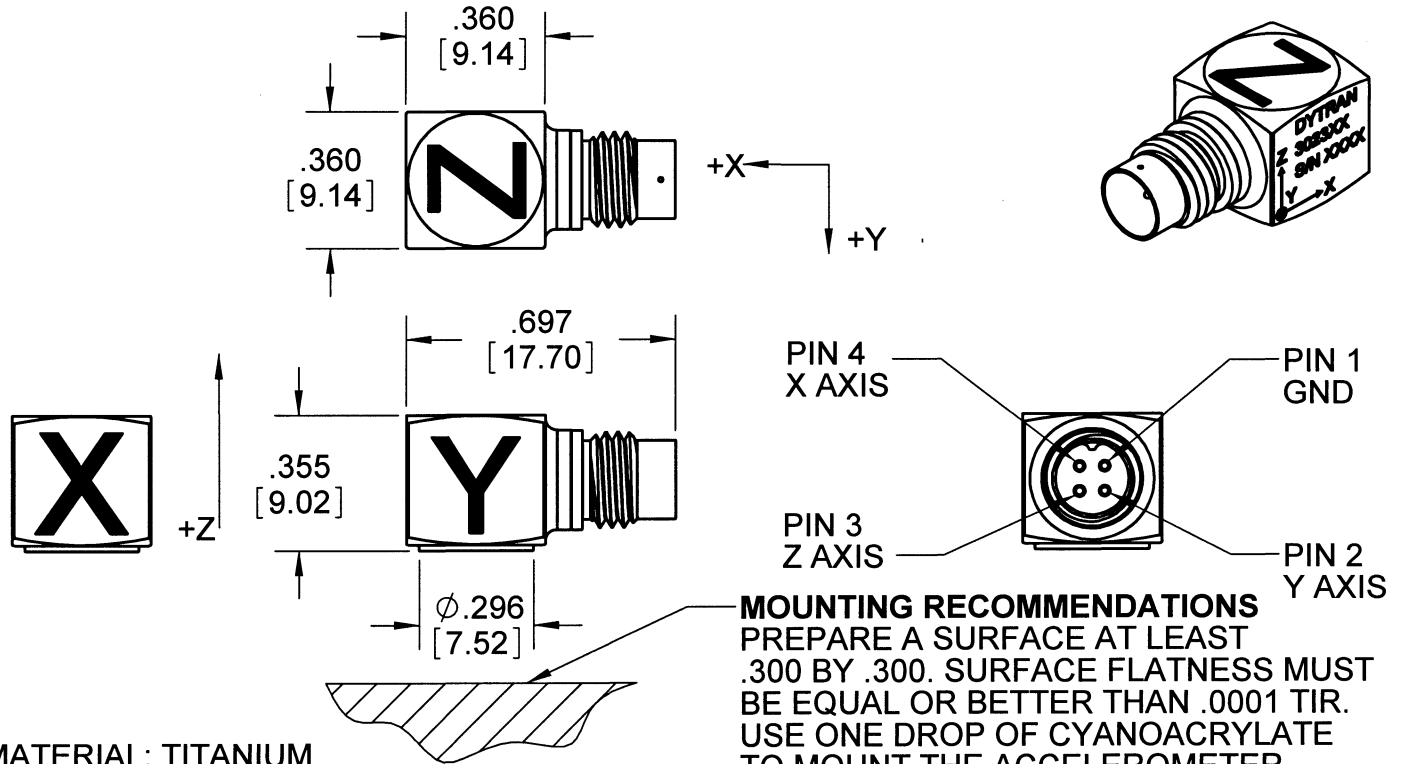


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6096	INITIAL RELEASE	JS 07/22/09	<i>[Signature]</i>	AUS



5. MAX TEMP: 325° F
4. SENSITIVITY: 10mV/g
3. HOUSING/CONNECTOR MATERIAL: TITANIUM
2. ARROWS INDICATE DIRECTIONS OF ACCELERATION FOR POSITIVE OUTPUT
1. WEIGHT 3.0 GRAMS

NOTES: UNLESS OTHERWISE SPECIFIED

**MOUNTING RECOMMENDATIONS**  
 PREPARE A SURFACE AT LEAST .300 BY .300. SURFACE FLATNESS MUST BE EQUAL OR BETTER THAN .0001 TIR. USE ONE DROP OF CYANOACRYLATE TO MOUNT THE ACCELEROMETER.

USED ON	NEXT ASSY	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.
APPLICATION		
THIRD ANGLE PROJECTION USA		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
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.		

MATERIAL	
FINISH	
DO NOT SCALE DRAWING	

CONTRACT NO.		
APPROVALS		DATE
ORIG	JS	07/21/09
CHK	<i>[Signature]</i>	07/22/09
APP	AUS	7/22/09
APP		

**DYTRAN INSTRUMENTS, INC.** Chatsworth, CA

**MASTER ONLY IF IN RED**

TITLE: **OUTLINE/INSTALLATION DRAWING 3023M30**

SIZE	CAGE CODE	DWG. NO.	REV
<b>A</b>	<b>2W033</b>	<b>127-3023M30</b>	<b>A</b>
SCALE: 2:1	SOLIDWORKS	SHEET 1 OF 1	

<b>MODEL NUMBER</b> <b>3023M30</b>	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO.</b> <b>PS3023M30</b>
<b>ACCELEROMETER, TRIAXIAL, IEPE</b>		REV D, ECN 13417,04/20/17



- **HIGH TEMPERATURE**
- **HERMETICALLY SEALED**
- **MINIATURE SIZE**

**PHYSICAL**

Weight  
Mounting  
Connector [1]  
Material, Housing / Connector

ENGLISH		SI	
0.11	oz	3.0	grams
Adhesive		Adhesive	
4-pin		4-pin	
Titanium		Titanium	

**PERFORMANCE**

Sensitivity, -10 + 15% [2]  
Range F.S. (each axis)  
Frequency Response, +15/-5%  
Element Natural Frequency  
Equivalent Electrical Noise  
Spectral Noise  
Linearity [3]  
Transverse Sensitivity Max  
Signal Polarity

	ENGLISH	SI	
Sensitivity	10	1	mV/m/s <sup>2</sup>
Range F.S.	±500	±4905	m/s <sup>2</sup>
Frequency Response	1.5 to 10,000	1.5 to 10,000	Hz
Element Natural Frequency	30	30	kHz
Equivalent Electrical Noise	0.007	0.069	m/s <sup>2</sup> rms
Spectral Noise	1.25Hz: 0.003	0.029	m/s <sup>2</sup> rms/v(Hz)
	10Hz: 0.001	0.010	m/s <sup>2</sup> rms/v(Hz)
	100Hz: 0.0002	0.0020	m/s <sup>2</sup> rms/v(Hz)
	1000Hz: 0.00005	0.00049	m/s <sup>2</sup> rms/v(Hz)
	10000Hz: 0.00004	0.00039	m/s <sup>2</sup> rms/v(Hz)
Linearity	1	1	%F.S.
Transverse Sensitivity Max	6	6	%
Signal Polarity	[5]	[5]	

**ENVIRONMENTAL**

Maximum Shock  
Maximum Vibration  
Temperature Range  
Environmental Seal

5000	g pk	49050	m/s <sup>2</sup>
±600	g pk	±5880	m/s <sup>2</sup>
-60 to +325	°F	-51 to +163	°C
Hermetic		Hermetic	

**ELECTRICAL**

Supply Current Range [4]  
Compliance Voltage Range  
Output Impedance, Typ.  
Output Bias Voltage  
Discharge Time Constant  
Ground Isolation

2 to 20	mA	2 to 20	mA
+18 to +30	VDC	+18 to +30	VDC
100	Ω	100	Ω
9 to 11	VDC	9 to 11	VDC
0.3 to 1.0	sec	0.3 to 1.0	sec
Case Ground		Case Ground	

**This family also includes:**

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (grms)	Oper. Temp(°F)	TC(sec.)

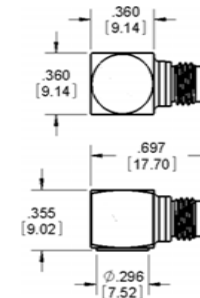
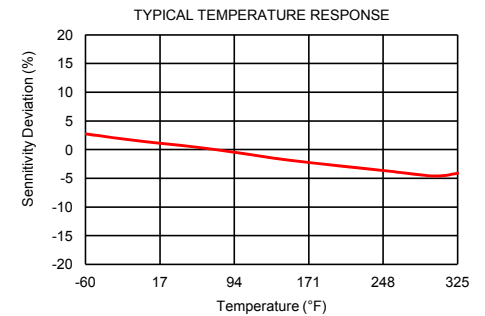
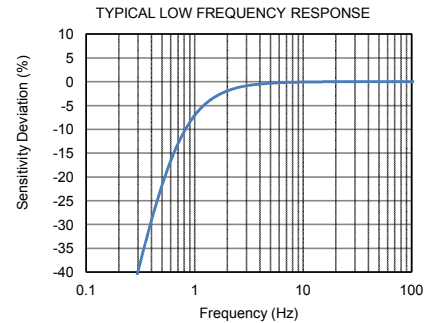
Please, refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited Calibration Certificate (ISO 17025)

**Notes:**

- [1] Connector mates with Dytran cable assy. Model 6811AXX. (xx = length in feet)  
[2] Measured At 100 Hz, 1 Grms per ISA RP 37.2  
[3] Measured using zero-based best straight-line method, % of F.S. or any lesser range.  
[4] Power only with Dytran IEPE power unit or other Dytran-compatible constant current type power unit. If power is applied without current limiting protection, the internal amplifier will be destroyed.  
[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 127-3023M30 for more information.



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