

<b>MODEL NUMBER</b> <b>3023M30</b>	<b>PERFORMANCE SPECIFICATION</b>	<b>DOC NO.</b> <b>PS3023M30</b>
	<b>ACCELEROMETER, TRIAXIAL, IEPE</b>	REV A, ECN6096, 07/21/09



Actual Size

- HIGH TEMPERATURE
- HERMETICALLY SEALED
- MINIATURE SIZE

**PHYSICAL**

Weight  
Mounting  
Connector [1]  
Material, Housing / Connector

ENGLISH		SI
0.105	oz	3.0
Adhesive		Adhesive
4-pin		4-pin
Titanium		Titanium

**PERFORMANCE**

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

ENGLISH		SI
10	mV/g	1.02
±500	g	4900.00
1.2 to 5000	Hz	1.2 to 5000
30	kHz	30
0.007	grms	0.0686
1	%F.S.	1
6	%	6
[5]		[5]

**ELECTRICAL**

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

ENGLISH		SI
2 to 20	mA	2 to 20
+18 to +30	VDC	+18 to +30
100	Ω	100
8 to 10	VDC	8 to 10
0.3 to 0.5	sec	0.3 to 0.5
Case Ground		Case Ground

**ENVIRONMENTAL**

Maximum Shock  
Maximum Vibration  
Temperature Range  
Environmental Seal

ENGLISH		SI
5000	g pk	49050
±600	g pk	±5880
-60 to +325	°F	-51 to +163
Hermetic		Hermetic

**This family also includes:**

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

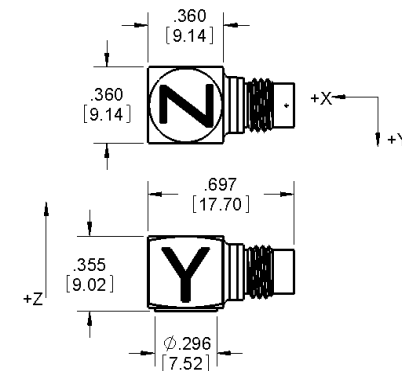
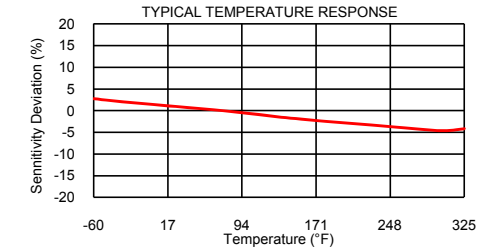
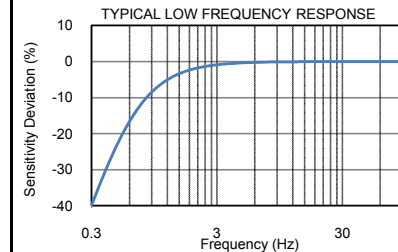
Please, refer to the performance specifications of the products in this family for detailed description

**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 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.



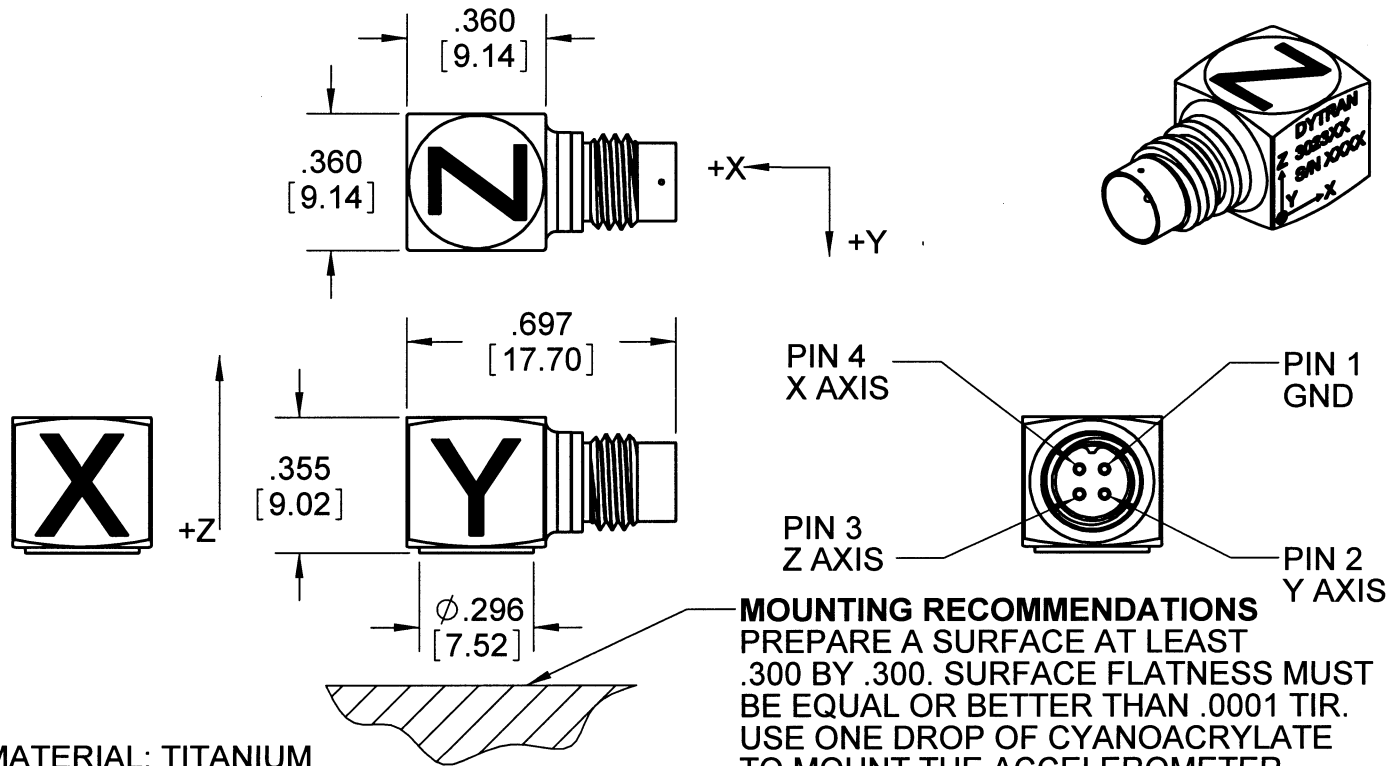
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REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6096	INITIAL RELEASE	JS 07/22/09	<i>JS</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	APPROVALS	DATE
FINISH	ORIG JS	07/21/09
DO NOT SCALE DRAWING	CHK <i>JS</i>	07/22/09
	APP <i>AUS</i>	7/22/09

CONTRACT NO.	
APPROVALS	
ORIG	DATE
CHK	07/22/09
APP	7/22/09
APP	

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

**MASTER ONLY IF IN RED**

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

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