REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6096	INITIAL RELEASE	JS 07/22/09		

.360 [9.14]

.360 [9.14]

+X

+Y

.697 [17.70]

.355 [9.02]

+Z

φ.296 [7.52]

PIN 4 X AXIS

PIN 1 GND

PIN 3 Z AXIS

PIN 2 Y AXIS

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.
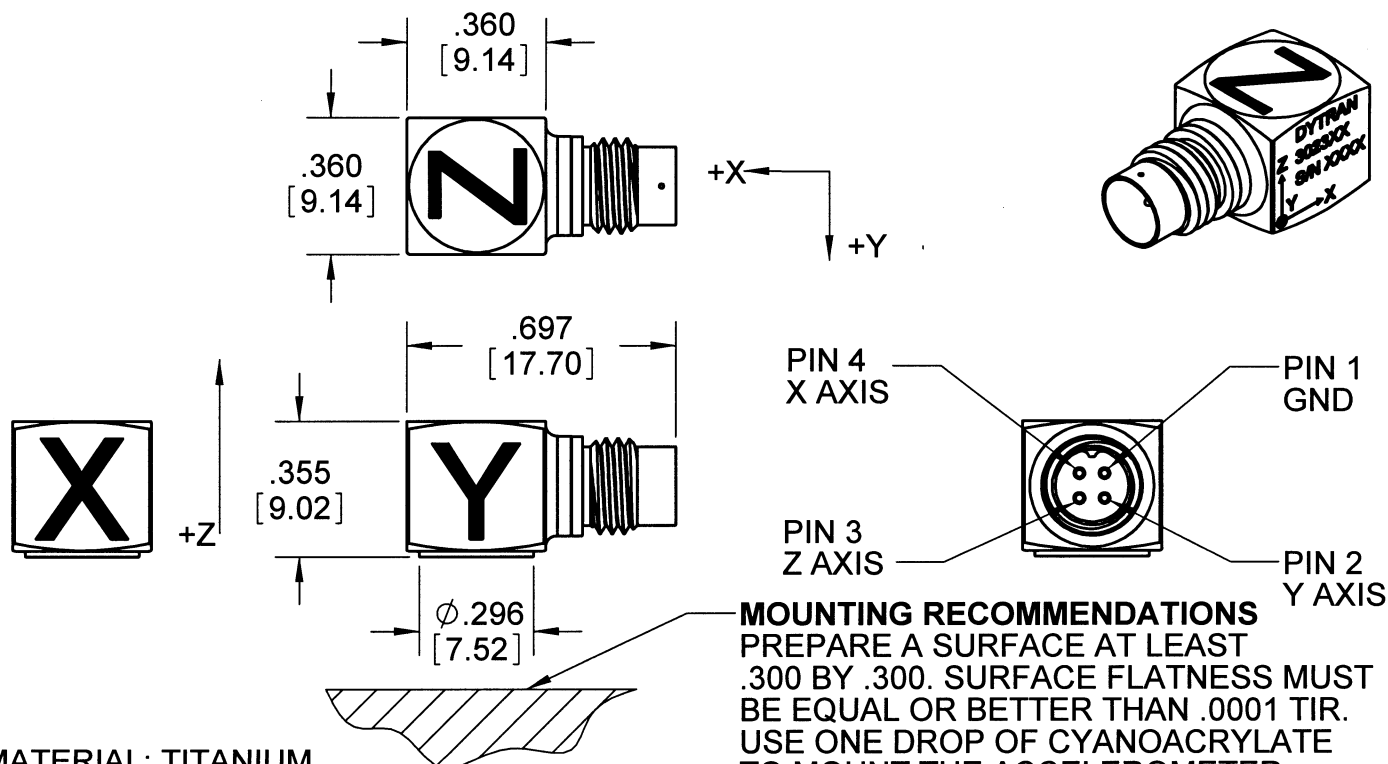
5. MAX TEMP: 325° F

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

CONTRACT NO.

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. 63/ √
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	

USED ON | NEXT ASSY
APPLICATION

THIRD ANGLE PROJECTION USA

MATERIAL

FINISH

	APPROVALS	DATE
ORIG	JS	07/21/09
CHK		07/22/09
APP		7/22/09
APP		

DO NOT SCALE DRAWING

DYTRAN INSTRUMENTS, INC. Chatsworth, CA
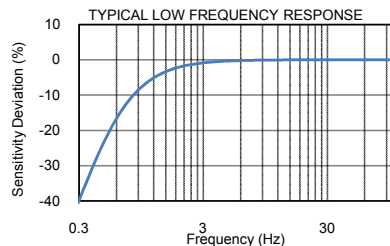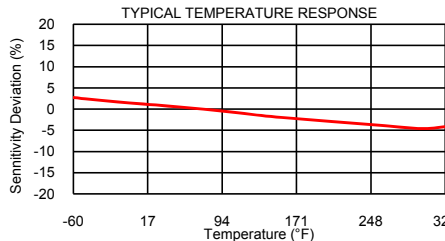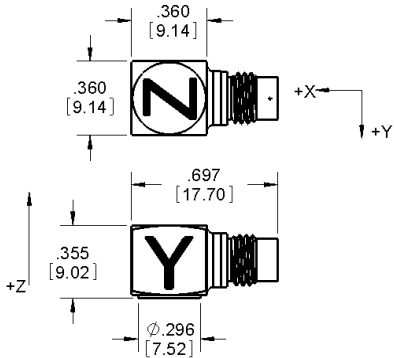
TITLE:
OUTLINE/INSTALLATION DRAWING
3023M30

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

MASTER ONLY IF IN RED

172-0081, REV C

MODEL NUMBER 3023M30	PERFORMANCE SPECIFICATION	DOC NO. PS3023M30
	ACCELEROMETER, TRIAXIAL, IEPE	REV B, ECN7258,12/05/10

Actual Size

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

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.

PHYSICAL

	ENGLISH		SI	
Weight	0.105	oz	3.0	grams
Mounting	Adhesive		Adhesive	
Connector [1]	4-pin		4-pin	
Material, Housing / Connector	Titanium		Titanium	

PERFORMANCE

	ENGLISH		SI	
Sensitivity, -10 + 15% [2]	10	mV/g	1.02	mV/m/s^2
Range F.S. (each axis)	±500	g	4900.00	m/s^2
Frequency Responce, -5 /+15%	1.2 to 5000	Hz	1.2 to 5000	Hz
Element Natural Frequency	30	kHz	30	kHz
Equivalent Electrical Noise	0.007	grms	0.0686	m/s^2 rms
Linearity [3]	1	%F.S.	1	%F.S.
Transverse Sensitivity Max	6	%	6	%
Signal Polarity	[5]		[5]	

ELECTRICAL

	ENGLISH		SI	
Supply Current Range [4]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.	100	Ω	100	Ω
Output Bias Voltage	9 to 11	VDC	9 to 11	VDC
Discharge Time Constant	0.3 to 0.5	sec	0.3 to 0.5	sec
Ground Isolation	Case Ground		Case Ground	

ENVIRONMENTAL

	ENGLISH		SI	
Maximun Shock	5000	g pk	49050	m/s^2
Maximum Vibration	±600	g pk	±5880	m/s^2
Temperature Range	-60 to +325	°F	-51 to +163	°C
Environmental Seal	Hermetic		Hermetic	

TYPICAL LOW FREQUENCY RESPONSE

TYPICAL TEMPERATURE RESPONSE

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Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023M30 for more information.

DYTRAN INSTRUMENTS, INC.