

PROPRIETARY AND CONFIDENTIAL

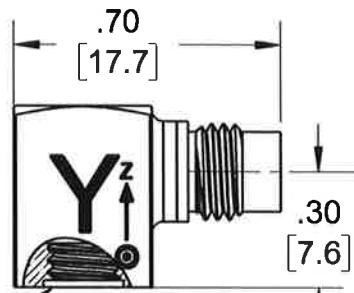
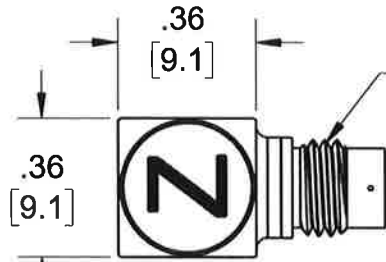
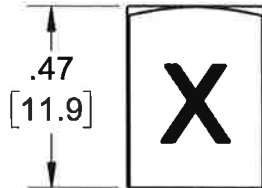
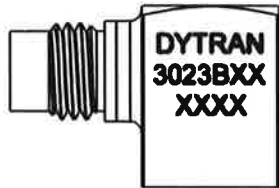
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REVISIONS

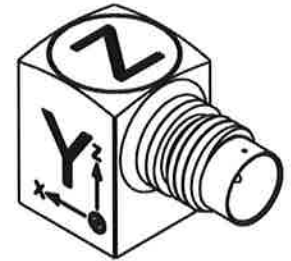
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	11363	INITIAL RELEASE	JS 04/11/15	<i>[Signature]</i>	<i>[Signature]</i>

VARIATION TABLE

MODEL NO.	SENSITIVITY	TEDS
3023B7	1 mV/g	NO
3023B8	5 mV/g	NO
3023B9	10 mV/g	NO
3023B7T	1 mV/g	YES
3023B8T	5 mV/g	YES
3023B9T	10 mV/g	YES



1/4-28 4-PIN CONNECTOR



PIN 4
X AXIS
(1) OUTPUT

KEY

PIN 1
GND

PIN 3
Z AXIS
(3) OUTPUT

PIN 2
Y AXIS
(2) OUTPUT

10-32 UNF-2B ∇ .12
[] .14 ∇ .02



7 MODEL 6200, 10-32 UNF-2A MOUNTING STUD, SUPPLIED

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

5. OPERATIONAL TEMPERATURE: RANGE -60° TO +325°F
4. SENSITIVITY: SEE CHART.
3. WEIGHT: 4 GRAMS MAX.
2. ARROWS INDICATE ACCELERATION DIRECTION FOR POSITIVE OUTPUT
1. MATERIAL: TITANIUM ALLOY

MOUNTING RECOMMENDATIONS:
PREPARE SURFACE AT LEAST ϕ .39 [7.5] FLAT TO .001 TIR.
TAP 10-32 UNF-2B ∇ .140 [3.6] MIN.
MOUNTING TORQUE: 10-12 Lb-in.

NOTES: UNLESS OTHERWISE SPECIFIED.

3023B7	
3023B8	
3023B9	
3023B7T	
3023B8T	
3023B9T	
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.

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

APPLICATION

THIRD ANGLE PROJECTION USA

ALL MACHINED SURFACES \checkmark 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.

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

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

TITLE:

OUTLINE/INSTALLATION DRAWING, MODEL 3023B SERIES

APPROVALS		DATE
ORIG	NDC	3/11/14
CHK	<i>[Signature]</i>	5-2-14
APP	<i>[Signature]</i>	5/9/15
APP		

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3023B7	A
SCALE: NONE	SOLIDWORKS	SHEET 1 OF 1	

MODEL NUMBER 3023B7T	PERFORMANCE SPECIFICATION	DOC NO. PS3023B7T
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- **HIGH TEMPERATURE**
- **HERMETICALLY SEALED**
- **MINIATURE SIZE**
- **TEDS FEATURE**

ACCELEROMETER, TRIAXIAL, IEPE

REV B, ECN 13594, 8/10/17

PHYSICAL

Weight, Max.
Mounting
Connector [1]
Material, Housing / Connector

ENGLISH			SI	
0.14	oz		4.0	grams
10-32 Tapped Hole			10-32 Tapped Hole	
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
Spectral Noise
Linearity [3]
Transverse Sensitivity, Max.
Signal Polarity

1	mV/g		0.10	mV/m/s ²
±5000	g		±49050	m/s ²
2.5 to 4000	Hz		2.5 to 4000	Hz
2 to 10000	Hz		2 to 10000	Hz
25	kHz		25	kHz
0.07	grms		0.7	m/s ² rms
1.25Hz	6800	μGrms/v(Hz)	66708	μm/s ² rms/v(Hz)
10Hz	6800	μGrms/v(Hz)	66708	μm/s ² rms/v(Hz)
100Hz	1200	μGrms/v(Hz)	11772	μm/s ² rms/v(Hz)
1000Hz	315	μGrms/v(Hz)	3090	μm/s ² rms/v(Hz)
10000Hz	220	μGrms/v(Hz)	2158	μm/s ² rms/v(Hz)
±1	% F.S.		±1	% F.S.
5	%		5	%
[5]			[5]	

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedance, Typ.
Output Bias Voltage
Discharge Time Constant
Magnetic Sens. at 100 Gauss
Strain Sensitivity @ 250μe
Ground Isolation

2 to 20	mA		2 to 20	mA
+18 to +30	VDC		+18 to +30	VDC
100	Ω		100	Ω
7 to 12	VDC		7 to 12	VDC
0.2 - 2.0	sec		0.2 - 2.0	sec
0.00005	g/Gauss		4.905	m/s ² /T
0.008	g/μe		0.08	m/s ² /μe
Case Ground			Case Ground	

ENVIRONMENTAL

Maximum Shock
Maximum Vibration
Temperature Range
TEDS Operating Temp.
Environmental Seal
TEDS

±10000	g pk		±98100	m/s ²
±6000	g pk		±58860	m/s ²
-60 to +325	°F		-51 to +162	°C
-40 to +185	°F		-40 to +85	°C
Hermetic			Hermetic	
IEEE 1451.4			IEEE 1451.4	

This family also includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp (°F)	TC
3023B7	1	5000	0.07	-60 to +325	0.2 to 2.0
3023B8	5	1000	0.014	-60 to +325	0.2 to 2.0
3023B9	10	500	0.007	-60 to +325	0.2 to 2.0
3023B8T	5	1000	0.014	-60 to +325	0.2 to 2.0
3023B9T	10	500	0.007	-60 to +325	0.2 to 2.0

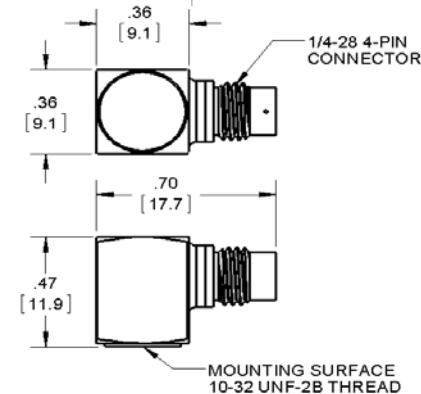
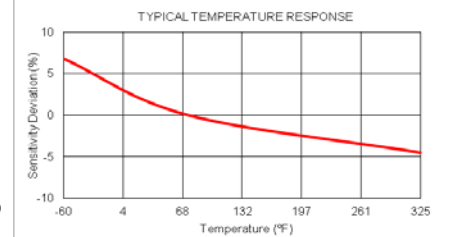
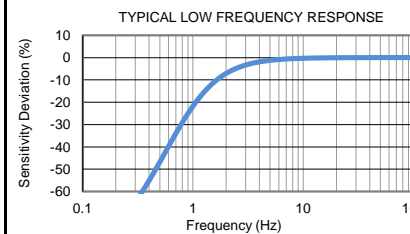
Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited Calibration Certificate (ISO 17025)
- 2) Model 6200 Mounting Stud, Qty 1.

Notes:

- [1] Connector mates with Dytran's cable assy. model 6811AXX or 6824AXX. (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.
- [6] In the interest of constant product improvement, we reserve the right to change the specification without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3023B7 for more information.

