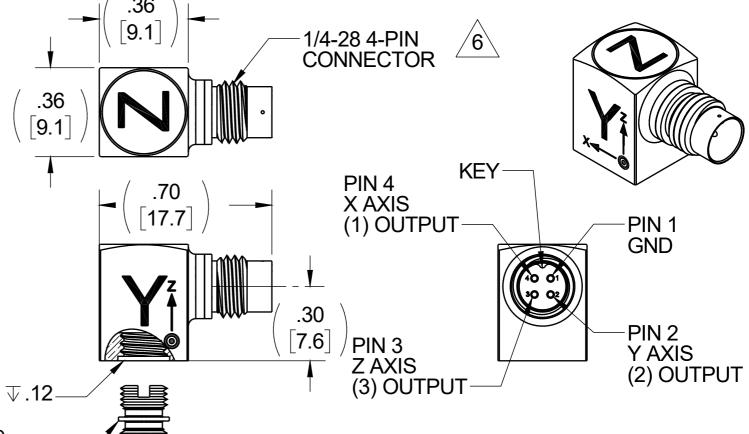
PROPRIETARY AND CONFIDENTIAL

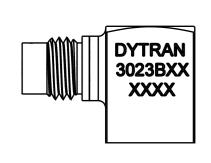
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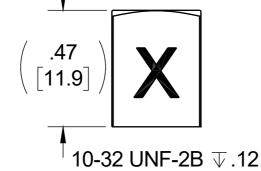
VARIATION TABLE				
MODEL NO.	SENSITIVITY	TEDS		
3023B7	1 mV/g	NO		
3023B8	5 mV/g	NO		
3023B9	10 mV/g	NO		
3023B7T	1 mV/g	YES		
3023B8T	5 mV/g	YES		
3023B9T	10 mV/g	YES		

REVISIONS					
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
В	16747	ZONE 3/B: IS: .21, WAS: .14	AS 06/01/22	JB	AM
				•	



FLAT TO .001 TIR.





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

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

NOTES: UNLESS OTHERWISE SPECIFIED. 3023B7 UNLESS OTHERWISE SPECIFIED:

002000					
3023B9					
3023B7T					
3023B8T					
3023B9T					
USED ON	NEXT ASSY				
APPLIC	CATION				
THIRD ANGLE	PROJECTION				
USA					

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

CONTRACT NO.

APPROVALS

NDC

ΕP

RT

FINISH CHK
APP

DO NOT SCALE DRAWING APP

INSTRUMENTS, INC.

Chatsworth, CA

MOUNTING RECOMMENDATIONS:
PREPARE SURFACE AT LEAST ∅.39 [7.5]

TAP 10-32 UNF-2B $\sqrt{\ .140}$ [3.6] MIN.

MOUNTING TORQUE: 10-12 Lb-in.

TITLE:

DATE

NDC3/11/1

05/02/16

05/04/16

OUTLINE/INSTALLATION DRAWING, MODEL 3023B SERIES

A 2W033

SCALE: NONE

DWG. NO. 127-3023B7

SOLIDWORKS SHEET 1 OF 1

REV

B

172-0081, REV D

3023B8

MODEL NUMBER
3023B8

PERFORMANCE SPECIFICATION
PS3023B8

ACCELEROMETER, TRIAXIAL, IEPE

DOC NO.
PS3023B8

REV C, ECN 17104, 03/29/23



- HIGH TEMPERATURE
- HERMETICALLY SEALED
- MINIATURE SIZE

0					
		ENGLISH		SI	
PHYSICAL	<u>'</u>				_
Weight, Max.		0.14	oz	4.0	grams
Mounting		10-32 Tapped Hole		10-32 Tapped Hole	Ŭ
Connector [1]		4-pin		4-pin	
Material, Housing / Connector		Titanium		Titanium	
PERFORMANCE	·		-		-
Sensitivity, -10% / +15% [5]		5	mV/g	0.51	mV/m/s ²
Range F.S. (each axis)		±1000	g pk	±9810	m/s² pk
Frequency Response, ±5%		2.43 to 4000	Hz	2.43 to 4000	Hz
,±15%		1.29 to 10000	Hz	1.29 to 10000	Hz
Element Natural Frequency		25	kHz	25	kHz
Equivalent Electrical Noise		0.02	g RMS	0.196	m/s ² RMS
Spectral Noise	1.25Hz	1360	μg RMS/√(Hz)	13342	μ m/s ² RMS/ \sqrt{Hz}
	10Hz	1360	μg RMS/√(Hz)	13342	μ m/s ² RMS/ \sqrt{Hz}
	100Hz	240	μg RMS/√(Hz)	2354	μ m/s ² RMS/ \sqrt{Hz}
	1000Hz	63	μg RMS/√(Hz)	618	μ m/s ² RMS/ \sqrt{Hz}
	10000Hz	44	μg RMS/√(Hz)	432	μ m/s ² RMS/ \sqrt{Hz}
Linearity [2]		±1	% F.S.	±1	% F.S.
Transverse Sensitivity, Max.		6	%	6	%
Signal Polarity		[4]		[4]	
EL EGERIO AL					
ELECTRICAL		0 / 00		0.4.00	1 .
Supply Current Range [3]		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		7 to 12	VDC	7 to 12	VDC
Discharge Time Constant		0.2 to 2.0	Sec	0.2 to 2.0	Sec m/s²/T
Magnetic Sens. at 100 Gauss		0.00005	g/Gauss	4.905	
Strain Sensitivity @ 250με		0.008	g/με	0.08	m/s²/με
Ground Isolation		Case Ground		Case Ground	
ENVIRONMENTAL		_		_	
Maximum Shock		±2000	g pk	±19620	m/s² pk
Temperature Range		-60 to +325	°F	-51 to +162	°C
Environmental Seal		Hermetic		Hermetic	
	'		. '		-

This family als	his family also includes:							
Model	Sensitivity (mV/g)	Range (g pk)	Resolution (g RMS)	Oper. Temp (°F)	TC (Sec)			
3023B7	1	5000	0.07	-60 to +325	0.2 to 2.0			
3023B9	10	500	0.007	-60 to +325	0.2 to 2.0			
3023B7T	1	5000	0.07	-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 using zero-based best 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] Positive for motion in direction of arrows on housing.
- [5] All specifications are at room temperature unless otherwise specified.
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice.
- It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

