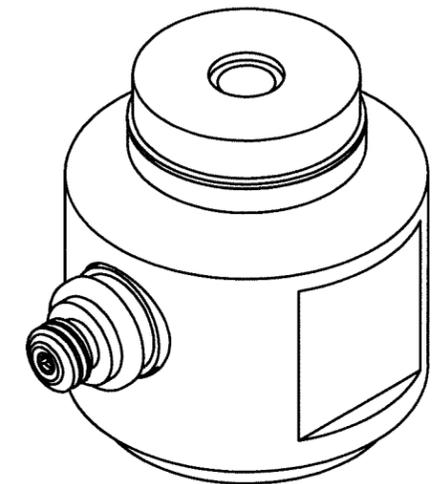
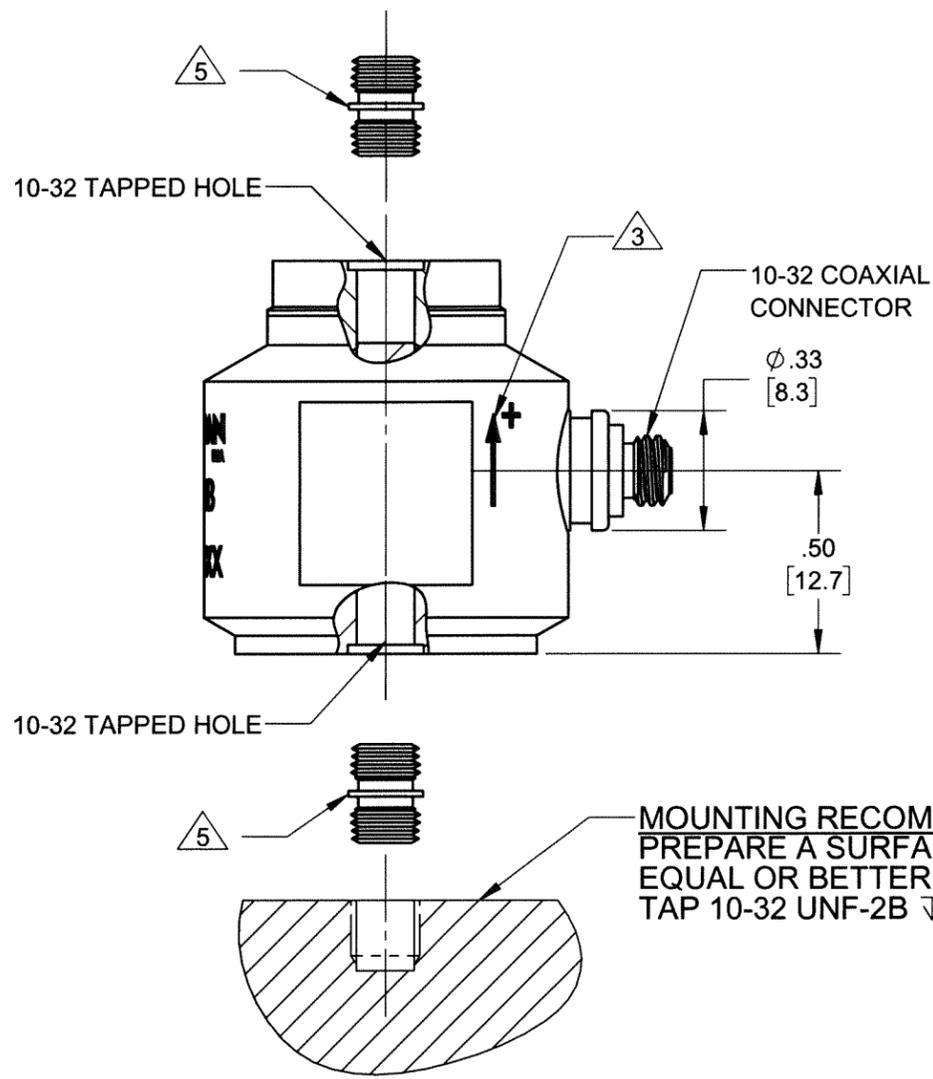
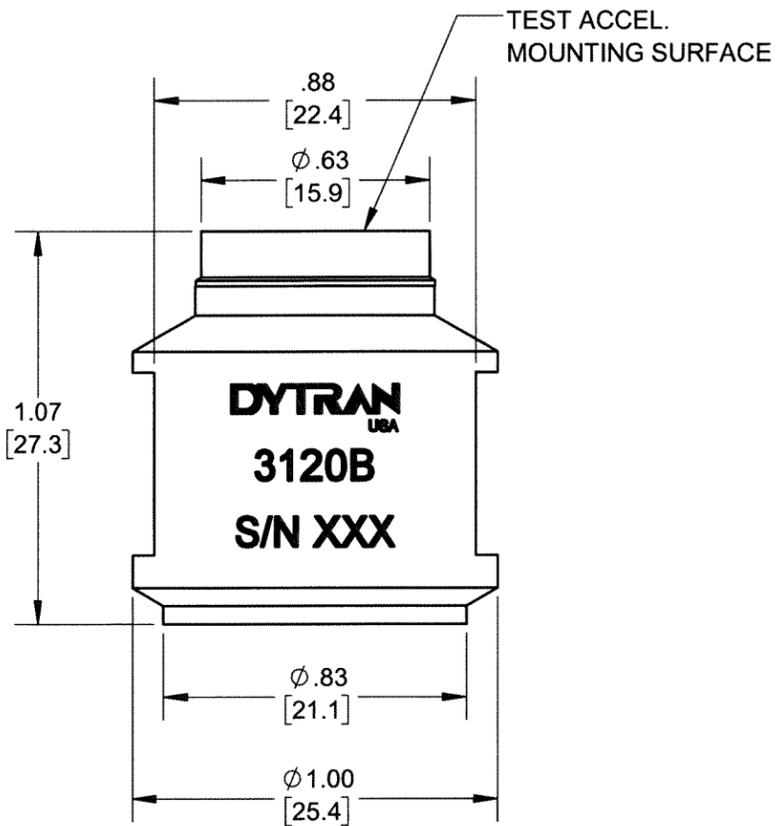


PROPRIETARY AND CONFIDENTIAL

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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14353	INITIAL RELEASE	KG 07/31/18	hw	EM



MOUNTING RECOMMENDATIONS
 PREPARE A SURFACE TO A FLATNESS EQUAL OR BETTER THAN .001 TIR.
 TAP 10-32 UNF-2B $\nabla .200$

- 5 MOUNTING STUD MODEL 6200 SUPPLIED.
 - 4 ARROW INDICATES DIRECTION OF ACCELERATION FOR NEGATIVE CHARGE OUTPUT.
 - 3. WEIGHT: 85 GRAMS, MAX.
 - 2. INSTALLATION TORQUE: 15 LB-IN ON TWO FLATS.
 - 1. MATERIAL: 300 SERIES SS
- NOTES: UNLESS OTHERWISE SPECIFIED

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. DIMENSIONS APPLY AFTER FINISHING.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS () ARE IN MILLIMETERS TOLERANCES ARE:		Chatsworth, CA MASTER ONLY IF IN RED	
DECIMALS .XX ±.03 .XXX ±.010	METRIC X ± 0.8 XX ±0.25	ANGLES ±1°	TITLE: OUTLINE/INSTALLATION DWG, MODEL 3120B		
APPROVALS		DATE	SIZE	CAGE CODE	DWG NO
ORIG	KG	07/31/18	B	2W033	127-3120B
CHK	EM	8/15/18	REV A		
APP	hw	8/15/18	SHEET 1 OF 1		
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	SCALE: 2:1		

Model Number
3120B

PERFORMANCE SPECIFICATION

DOC NO
PS3120B

IEPE ACCELEROMETER

REV B, EGN 15477, 12/17/19



- ACCELEROMETER FOR BACK-TO-BACK CALIBRATION
- TOP AND BOTTOM TAPPED HOLES
- INTEGRAL 10-32 COAXIAL CONNECTOR

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

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 Studs, qty 2
- 3) Model 6201 Mounting Stud, qty 1
- 4) Model 6213 Adhesive Mounting Base, qty 1

Notes:

- [1] Measured at 100 Hz, 1 Grms per ISA RP 37.2
- [2] Measured using zero-based 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] System calibrated at factory with **NIST** traceable transfer standard accelerometer weighing 19 grams. NIST traceability number supplied with each system calibration.
- [5] Mounts in available Model 4200 19-inch wide equipment rack. Up to 10 units fit in one rack.
- [6] In the interest of constant product improvement, we reserve the rights to change the 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

PHYSICAL

Weight, Max
Connector
Mounting Provision
Material
Element Style

Top and Bottom Tapped Holes
Housing and Connector
Type

ENGLISH		SI	
3.0	oz	85	grams
10-32 Coaxial		10-32 Coaxial	
10-32		10-32	
300 Series Stainless Steel		300 Series Stainless Steel	
Planar Shear		Planar Shear	

PERFORMANCE

Sensitivity, ±5% [1]
Range F.S
Frequency Response, ±6%
Resonant Frequency
Equivalent Electrical Noise Floor, Max
Linearity [2]
Maximum Transverse sensitivity
Strain Sensitivity @ 250µε

10	mV/g	1.02	mV/m/s ²
500	g	4905	m/s ²
10 to 10000	Hz	10 to 10000	Hz
>40	kHz	>40	kHz
0.020	Grms	0.20	m/s ² rms
± 1	% F.S.	± 1	% F.S.
3	%	3	%
0.002	g/µε	0.02	m/s ² /µε

ENVIRONMENTAL

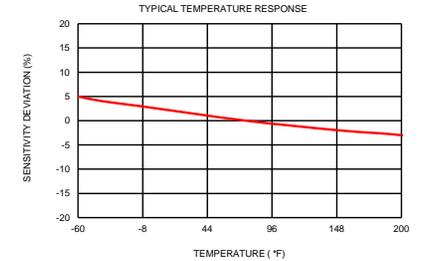
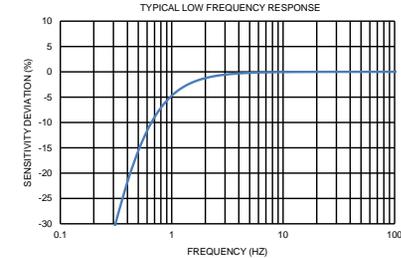
Shock Max
Vibration Max
Temperature Range
Seal

3000	G pk	29430	m/s ²
1000	G's	9810	m/s ²
-60 to +200	°F	-51 to +93	°C
Epoxy		Epoxy	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant

2 to 20	mA	2 to 20	mA
+ 18 to +20	Volts	+ 18 to +20	Volts
<100	Ω	<100	Ω
7.5 to 9.5	VDC	7.5 to 9.5	VDC
0.5 to 1.5	Sec	0.5 to 1.5	Sec



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3120B for more information.



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