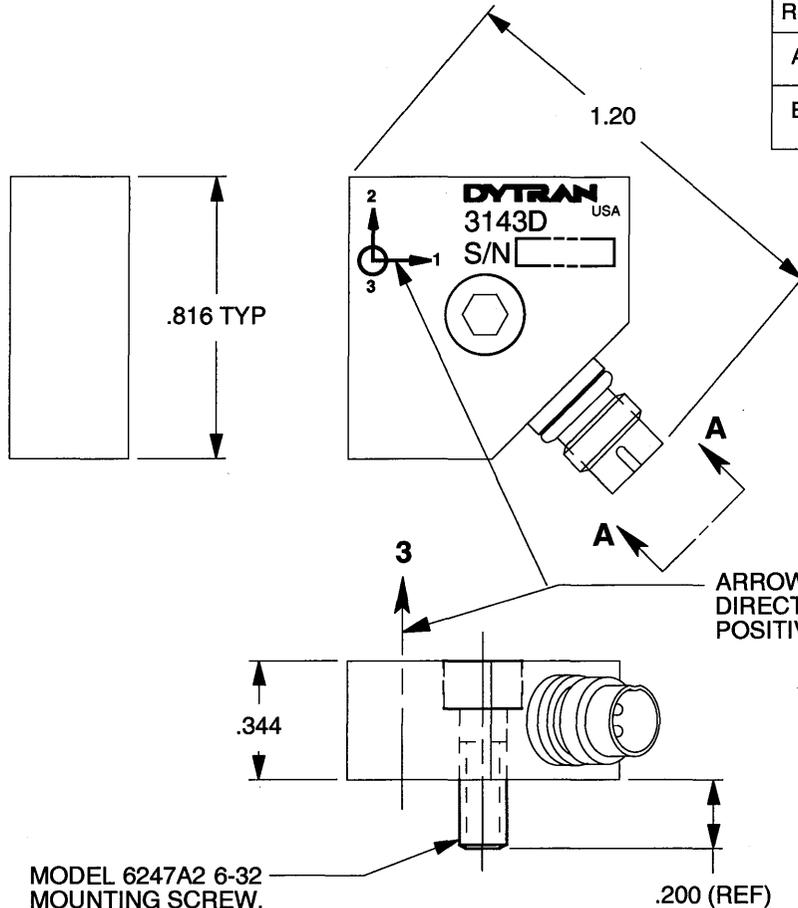


REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	-	INITIAL RELEASE	R.L.A. 1/3/03	N.C.	N.C.
B	4880	IS: AXIS 1 WAS: AXIS 2 IS: AXIS 2 WAS: AXIS 1	RLA 10/22/07	<i>RL</i>	<i>CS</i>



VIEW A-A LOOKING INTO CONNECTOR WITH CABLE DISCONNECTED

**PINOUT**  
 PIN#1 GND RETURN, COMMON  
 PIN#2 SIG/PWR AXIS 2 (Y)  
 PIN#3 SIG/PWR AXIS 3 (Z)  
 PIN#4 SIG/PWR AXIS 1 (X)

ARROWS INDICATE SENSE AND DIRECTION OF ACCELERATION FOR POSITIVE-GOING OUTPUT SIGNALS

MODEL 6247A2 6-32 MOUNTING SCREW, (SUPPLIED) RECOMMENDED MOUNTING TORQUE: 10-15 LB-INCHES

MOUNTING PORT PREPARATION: DRILL #36 (Ø .1065) X .270 DEEP TAP 6-32 UNC-2B X .22 DEEP, MIN.

- RECOMMENDED CABLES: MODEL 6041CXX, FOR CONNECTION TO DYTRAN POWER UNITS 4113B AND 4103C. MODEL 6811AXX FOR CONNECTION TO MODEL 4114B FOUR-CHANNEL POWER UNIT.
- WEIGHT: 14 GRAMS.
- SIGNAL GROUND IS INSULATED FROM CASE GROUND.
- ENVIRONMENTAL SEAL: HERMETIC.
- HOUSING/CONNECTOR MATERIAL: TITANIUM.

EXCEPT AS OTHERWISE NOTED	
ALL DIMENSIONS IN INCHES	
TOLERANCE: .XXX = ± .XX ± .01	
SURFACE FINISH EXCEPT AS NOTED	✓
BREAK EDGES TO DEBURR RADIUS OR CHAMFER	
△ THESE DIAS TO T.I.R.	
FILLET -	MAX RAD.

<b>DYTRAN</b> INSTRUMENTS, INC.		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE 2X	REV -	DATE SEE REV BLOCK	ECN -		
DATE 7/24/02	PART NO. MODEL 3143D				
DRAWN N.C.	CHECKED R.A.	MAT'L			
APPROVED N.C. 1/3/03	NEXT ASSEMBLY		USED ON	3143D	
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL 3143D, 10 mV/G</b>			DWG NO. <b>127-3143D</b>		
			SHEET 1 OF 1		

Model Number  
3143D

## PERFORMANCE SPECIFICATIONS

DOC NO  
PS3143D

### IEPE TRIAXIAL ACCELEROMETER

REV A, EGN 11933, 06/09/15



- HERMETICALLY SEALED
- EXCELLENT LINEARITY

#### This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)
3143D1	100 mV/g	0.5 to 3000	0.8 to 2.0	-60 to 185
3143D2	50 mV/g	0.5 to 3000	0.8 to 2.0	-60 to 185

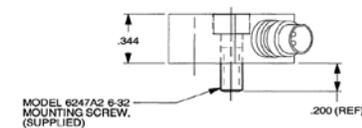
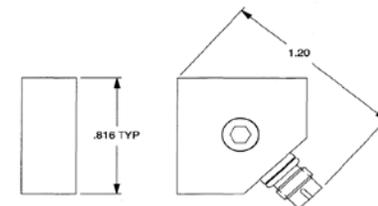
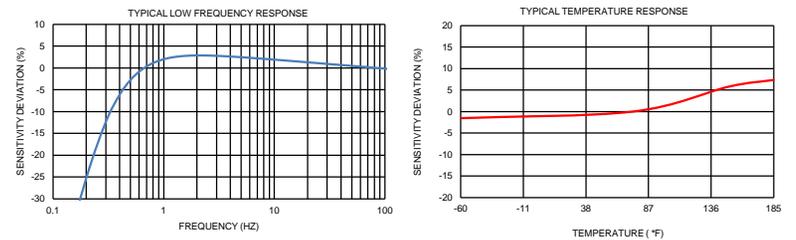
Refer to the performance specifications of the products in this family for detailed description

#### Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw Model 6247A2

#### Notes:

- [1] Radially mounted 4-pin connector. Mates with Dytran cable Model 6811A.
- [2] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3143D for more information.

ENGLISH		SI	
0.49	oz	14	grams
4-Pin		4-Pin	
6-32 Mounting Screw		6-32 Mounting Screw	
Titanium		Titanium	
Ceramic		Ceramic	
Planar Shear		Planar Shear	
10	mV/g	1	mV/m/s <sup>2</sup>
±500	g peak	±4905	m/s <sup>2</sup>
0.5 to 3000	Hz	0.5 to 3000	Hz
> 25	kHz	> 25	kHz
0.007	g rms	0.07	m/s <sup>2</sup> rms
± 1	% F.S.	± 1	% F.S.
5	%	5	%
0.012	g/με	0.12	m/s <sup>2</sup> /με
±600	g peak	±5886	m/s <sup>2</sup> peak
±1500	g peak	±14715	m/s <sup>2</sup> peak
-60 to 185	°F	-51 to 85	°C
-100 to 225	°F	-73 to 107	°C
Hermetic		Hermetic	
2 to 20	mA	2 to 20	mA
+18 to +30	Volts	+18 to +30	Volts
100	Ω	100	Ω
+11 to +13	VDC	+11 to +13	VDC
0.8 to 2.0	Sec	0.8 to 2.0	Sec
10	GΩ,min	10	GΩ,min

#### PHYSICAL

Weight, Max. Type  
Connector [1] Thru Hole  
Mounting Provision  
Material, Housing/Connector  
Sensing Element  
Element Style

#### PERFORMANCE

Sensitivity, ±5% [2]  
Range for ± 5 Volts Output  
Frequency Response, ±5%  
Resonant Frequency  
Broad Band Resolution  
Linearity [3]  
Maximum Transverse sensitivity  
Strain Sensitivity @ 250με

#### ENVIRONMENTAL

Maximum Vibration  
Maximum Shock  
Operating Temperature Range  
Survival Temperature Range  
Seal

#### ELECTRICAL

Supply Current Range [4]  
Compliance Voltage Range  
Output Impedence, Typ  
Bias Voltage  
Discharge Time Constant  
Electrical Isolation



21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax: 818.700.7880 www.dytran.com  
For permission to reprint this content, please contact info@dytran.com