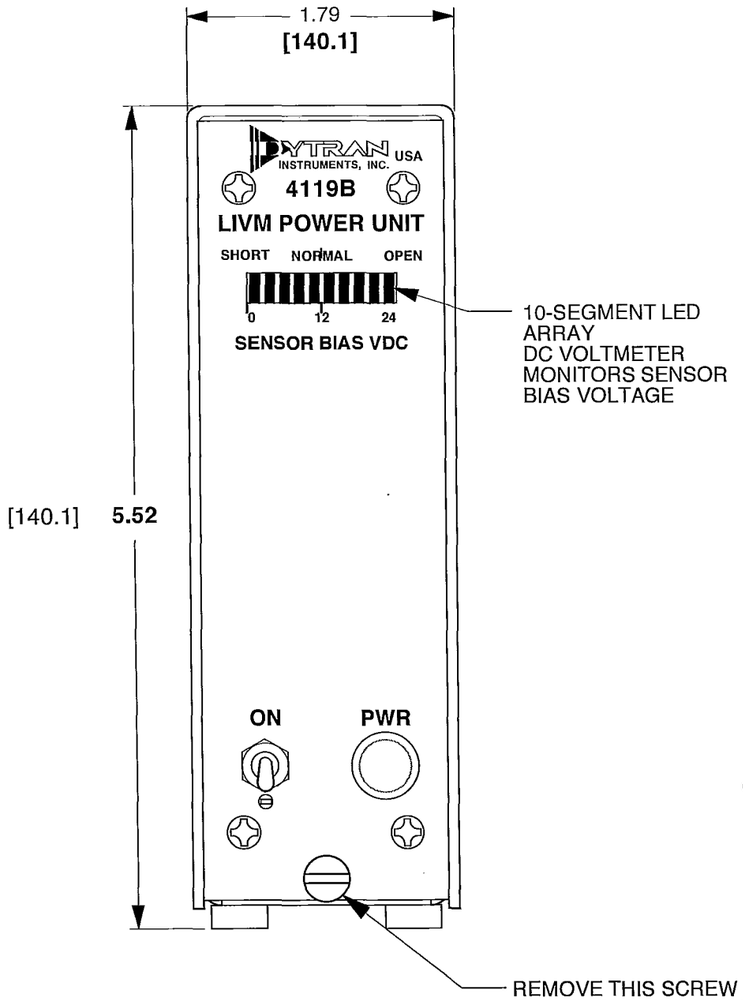
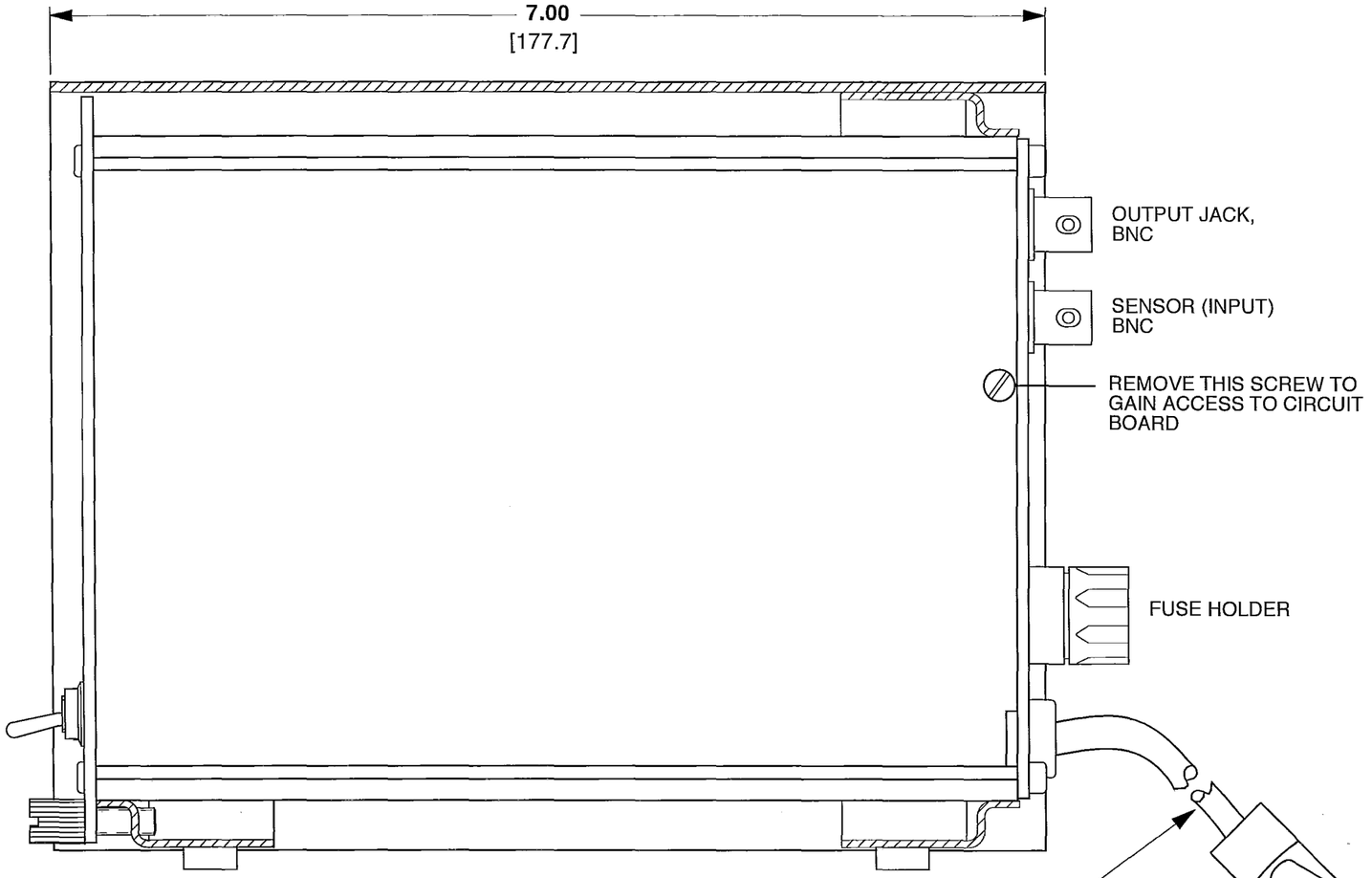
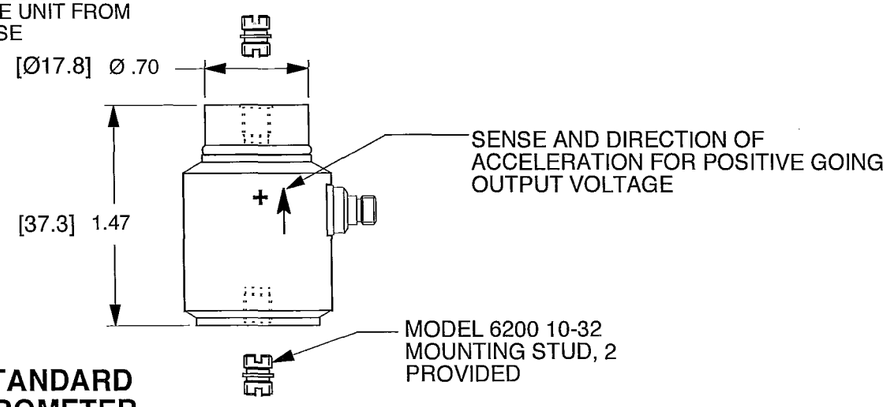
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10288	UPDATED VIEW OF CONNECTOR	RLA 8/20/13	EM	RT



4119B POWER UNIT



THIS VIEW IS WITH OUTER CASE SECTIONED



3123A STANDARD ACCELEROMETER

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. METRIC CONVERSIONS [mm] ARE SHOWN IN BRACKETS.

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

SCALE NO SCALE	REV -	DATE -	ECN -		
DATE 8/10/05	PART NO. MODEL 3123AK				
DRAWN N.C.	CHECKED R.A.	MAT'L			
APPROVED N.C. 8/10/05	NEXT ASSEMBLY	USED ON			
TITLE **OUTLINE/INSTALLATION DRAWING, SYSTEM MODEL 3123AK**		DWG NO. **127-3123AK**			
		SHEET 1 OF 1			

Model Number 3123AK	PERFORMANCE SPECIFICATION	DOC NO PS3123AK
	IEPE ACCELEROMETER BACK-TO-BACK CALIBRATION SYSTEM	REV A , ECN 14353, 07/19/18

- **SYSTEM FOR BACK-TO-BACK CALIBRATION**
- **EXCELLENT LINEARITY**

	ENGLISH		SI	
PHYSICAL (SENSOR)				
Weight, Max (Accelerometer)	3.5	oz	100	grams
Connector	10-32 Coaxial		10-32 Coaxial	
Mounting Provision Top and Bottom Tapped Holes	10-32		10-32	
Material (Non-magnetic) Housing and Connector	300 Series Stainless Steel		300 Series Stainless Steel	
Element Style	Planar Shear		Planar Shear	
PHYSICAL SPECIFICATIONS (AMPLIFIER/POWER UNIT)				
Weight, Max (Amplifier / Power Unit)	32	oz	900	grams
Sensor/Output Connector	BNC/BNC Coaxial		BNC/BNC Coaxial	
Power cord, STD	6FT 3-Wire w/ Chassis GND		6FT 3-Wire w/ Chassis GND	
Size (H x W x D) [6]	5.5 x 1.6 x 8.0	inches	140 x 41 x 203	mm
Temperature Range	0 to +120	°F	-18 to 48	°C
SYSTEM SPECIFICATIONS				
System Sensitivity, ± 5% @ 100 Hz [4]	100	mV/G	100	mV/G
Frequency Response, ±2% [4]	10 to 5,000	Hz	10 to 5,000	Hz
Linearity	±1	% F.S.	±1	% F.S.
Range F.S. for 5V Out	±50	G	±491	m/s^2
Operating Force Range [5]	±10	Force-lb	±44.5	N
Equivalent Electrical Noise, (Broadband)	0.003	Grms	0.03	m/s^2 rms
Output Impedance	2	Ohms	2	Ohms
Input Voltage, Power Unit/Sensor	115 / 2.4	Vac / VA	115 / 2.4	Vac / VA
Filter, Low Pass, Active	12	dB/octave	12	dB/octave
Sensor Supply Current/Voltage, STD	2 / +20	mA / VDC	2 / +20	mA / VDC
ACCELEROMETER MODEL 3123A SPECIFICATIONS				
Sensitivity, ±5% [1]	100	mV/g	10.20	$mV/m/s^2$
Discharge Time Constant	0.5 to 1.5	Sec	0.5 to 1.5	Sec
Coefficent of Thermal Sensitivity	0.03	% / °F	0.05	% / °C
Range F.S	50	g	491	m/s^2
Frequency Response, ±2%	10 to 5000	Hz	10 to 5000	Hz
Resonant Frequency	>40	kHz	>40	kHz
Equivalent Electrical Noise Floor, Max	0.003	Grms	0.03	m/s^2 rms
Transverse Sensitivity, Max	3	%	3	%
Strain Sensitivity @ 250με	0.002	g/με	0.02	$m/s^2/\mu\varepsilon$
Output Impedance (Sensor)	<100	Ohms	<100	Ohms
ENVIRONMENTAL (SENSOR)				
Shock Max	3000	G pk	29430	m/s^2
Vibration Max	1000	G	9810	m/s^2
Temperature Range	-60 to +200	°F	-51 to +93	°C
Seal	Epoxy		Epoxy	
ELECTRICAL (SENSOR)				
Supply Current Range [3]	2 to 20	mA	2 to 20	mA
Compliance Voltage Range	+ 18 to +20	VDC	+ 18 to +20	VDC
Bias Voltage	7.5 to 9.5	VDC	7.5 to 9.5	VDC

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

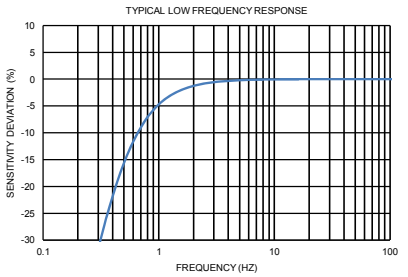
[2] Measured using zero-based straight line method, % of F.S. or any lesser range.

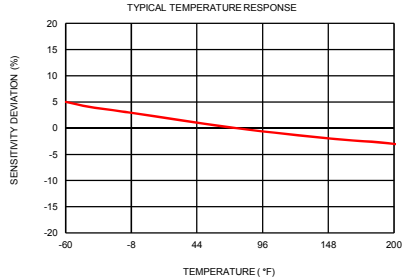
[3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.

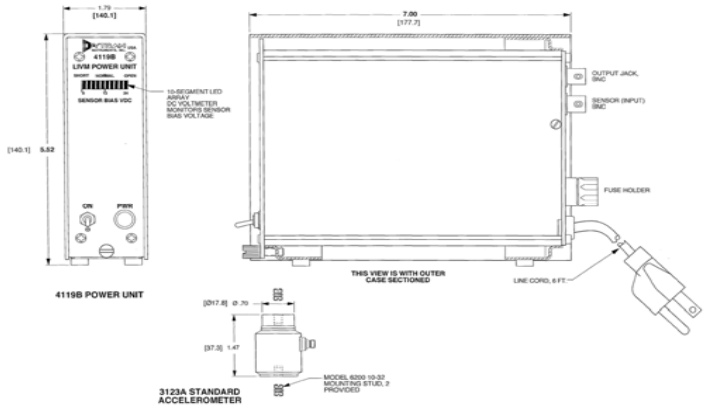
[4] System calibrated at factory with **NIST** traceable transfer standard accelerometer weighing 19 grams. NIST traceability number supplied with each system calibration.

[5] Force pound range = product of weight of test accelerometer x G level.

[6] Mounts in available Model 4200 19-inch wide equipment rack. Up to 10 units fit in one rack.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3123AK for more information.

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