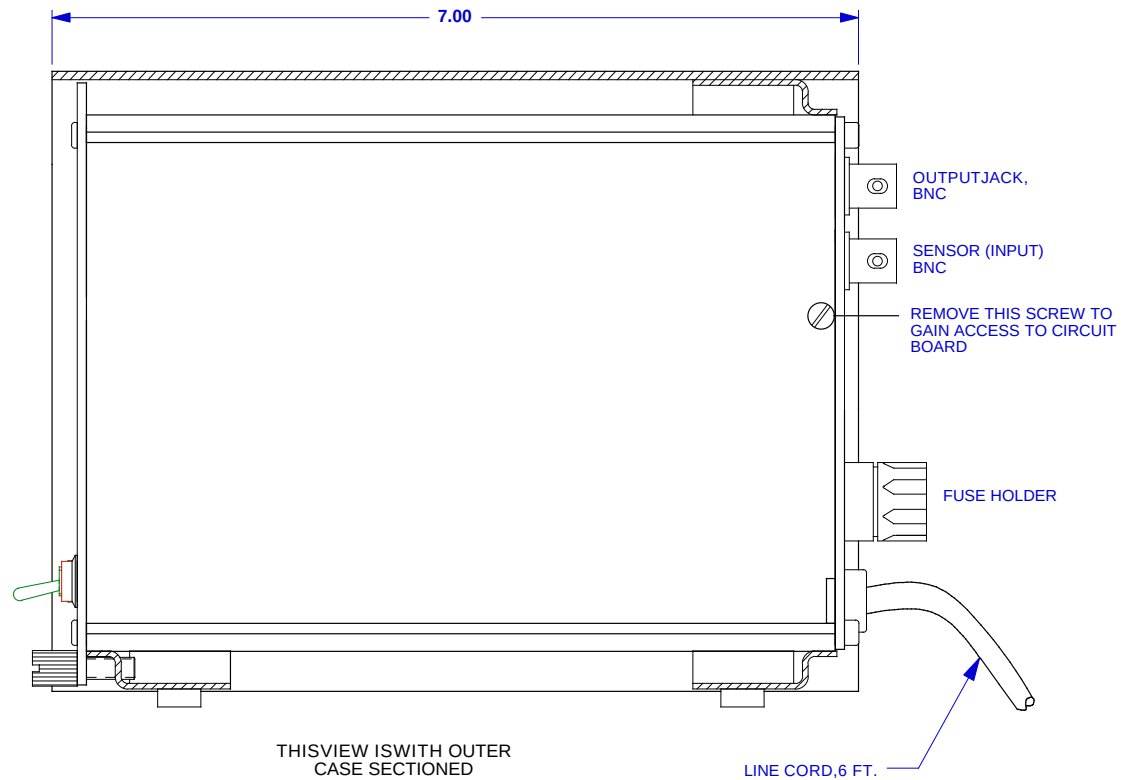
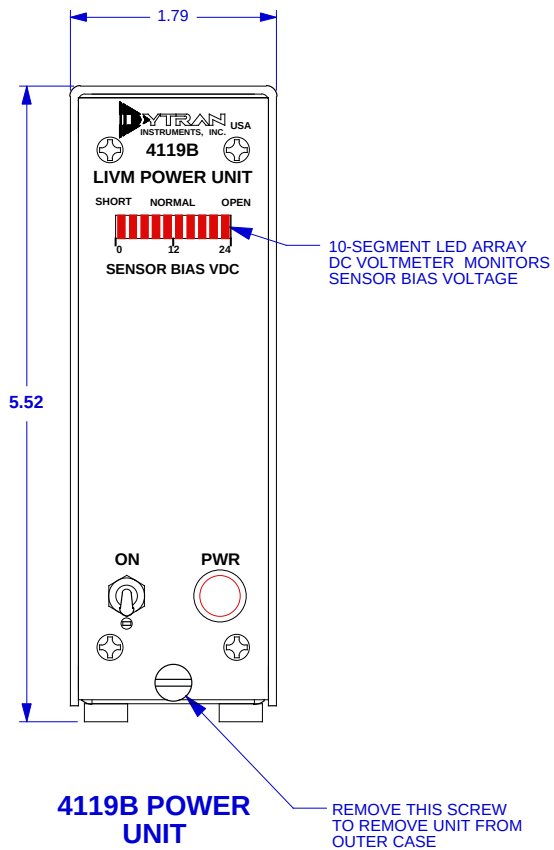
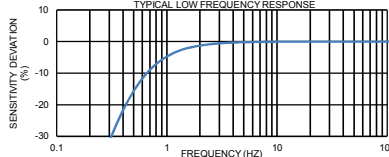
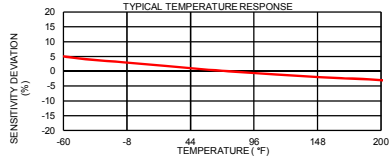
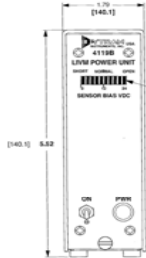
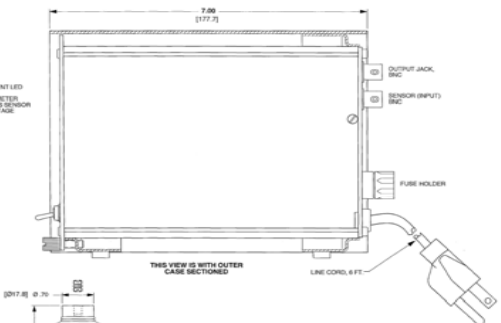


**3120B STANDARD
ACCELEROMETER**

DYTRAN INSTRUMENTS, INC.		CHATS WORTH, CA.	
SCALE 1X	REV -	DATE -	ECN -
DATE 1/28/00	PART NO. MODEL 3120BK		
DRAWN N.C.	CHECKED R.A.	MAT'L	
APPROVED	NEXT ASSEMBLY	USED ON	
TITLE OUTLINE/INSTALLATION DRAWING, SYSTEM MODEL 3120BK			DWG NO. 127-3120BK
			SHEET 1 OF 1

Model Number 3120BK	PERFORMANCE SPECIFICATION				DOC NO PS3120BK																								
IEPE ACCELEROMETER BACK-TO-BACK CALIBRATION SYSTEM				REV B , ECN 15133, 06/20/19																									
 • SYSTEM FOR BACK-TO-BACK CALIBRATION • EXCELLENT LINEARITY																													
PHYSICAL (SENSOR) Weight, Max (Accelerometer) Connector Mounting Provision Material (Non-magnetic) Element Style Top and Bottom Tapped Holes Housing and Connector <table><tr><th colspan="2">ENGLISH</th><th colspan="2">SI</th></tr><tr><td>3.0</td><td>oz</td><td>85</td><td>grams</td></tr><tr><td>10-32 Coaxial</td><td></td><td>10-32 Coaxial</td><td></td></tr><tr><td>10-32</td><td></td><td>10-32</td><td></td></tr><tr><td>300 Series Stainless Steel</td><td></td><td>300 Series Stainless Steel</td><td></td></tr><tr><td>Planar Shear</td><td></td><td>Planar Shear</td><td></td></tr></table>						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	
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Planar Shear		Planar Shear																											
PHYSICAL SPECIFICATIONS (AMPLIFIER/POWER UNIT) Weight, Max (Amplifier / Power Unit) Sensor/Output Connector Power cord Size (H x W x D) [6] Temperature Range 32 BNC/BNC Coaxial 6FT 3-Wire w/ Chassis GND 5.5 x 1.6 x 8.0 0 to +120 oz inches °F 900 BNC/BNC Coaxial 6FT 3-Wire w/ Chassis GND 140 x 41 x 203 -18 to 48 grams mm °C																													
SYSTEM SPECIFICATIONS System Sensitivity, ± 5% @ 100 Hz [4] Frequency Response, ±2% [4] Linearity Range F.S. for 5V Out Operating Force Range [5] Equivalent Electrical Noise, (Broadband) Output Impedance Input Voltage, Power Unit/Sensor Filter, Low Pass, Active Sensor Supply Voltage Sensor Supply Current 10 10 to 10,000 ±1 ±500 ±40 0.02 2 115 / 2.4 12 +20 2 to 5 mV/G Hz % F.S. G Force-lb Grms Ohms Vac / VA dB/octave VDC mA																													
ACCELEROMETER MODEL 3120B SPECIFICATIONS Sensitivity, ±5% [1] Discharge Time Constant Coefficient of Thermal Sensitivity Range F.S Frequency Response, ±6% Resonant Frequency Equivalent Electrical Noise Floor, Max Transverse Sensitivity, Max Strain Sensitivity @ 250µε Output Impedance 10 0.5 to 1.5 0.03 50 0.4 to 10,000 >40 0.003 3 0.002 <100 mV/g Sec % / °F g Hz kHz Grms % g/µε Ohms																													
ENVIRONMENTAL (SENSOR) Shock Max Vibration Max Temperature Range Seal 3000 1000 -60 to +200 Epoxy G pk G °F 29430 9810 -51 to +93 Epoxy m/s^c m/s^c °C																													
ELECTRICAL (SENSOR) Supply Current Range [3] Compliance Voltage Range Bias Voltage 2 to 20 + 18 to +20 7.5 to 9.5 mA VDC VDC 2 to 20 + 18 to +20 7.5 to 9.5 mA VDC VDC																													
This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (°F)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> 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. [7] 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 overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.						Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)																			
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TYPICAL LOW FREQUENCY RESPONSE  TYPICAL TEMPERATURE RESPONSE  4119B POWER UNIT  3120B STANDARD ACCELEROMETER  THIS VIEW IS WITH OUTER CASE SECTIONED LINE CORD, 6 FT.																													
Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3120BK for more information.																													

