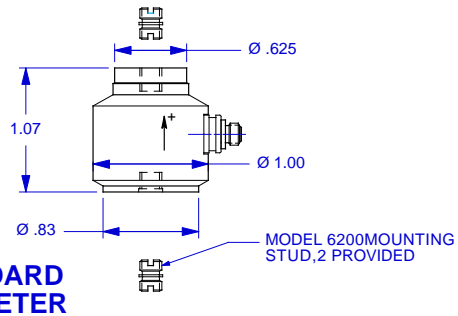
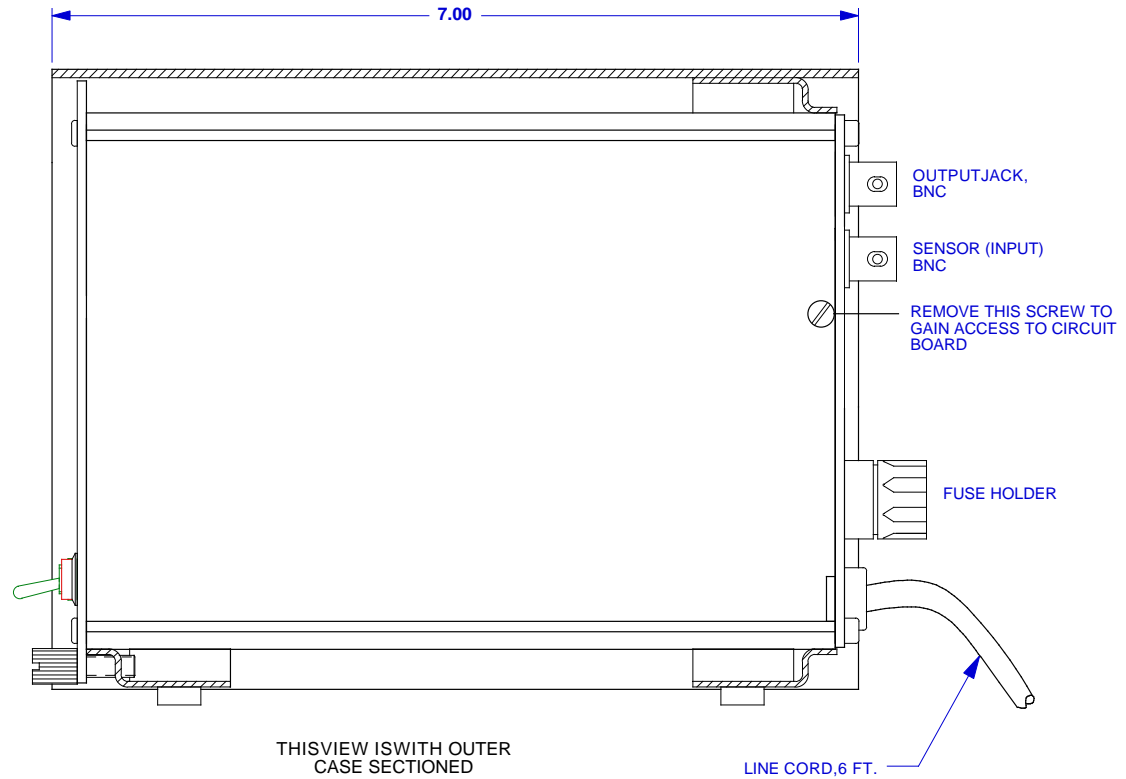


4119B POWER UNIT



3120B STANDARD ACCELEROMETER

| | | | |
|---|--------------------------|------------------------------|--------------|
| DYTRAN INSTRUMENTS, INC. | | CHATSWORTH, 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 |

SPECIFICATIONS

MODELS 3120BK & E3120BK VIBRATION CALIBRATION SYSTEM

SYSTEM DEFINITION THE **3120BK** SYSTEM CONSISTS OF: 3120B STD. ACCELEROMETER, 4119B POWER UNIT/AMPLIFIER, 6011A05 INPUT CABLE, 6020A05 OUTPUT CABLE, 6200 MOUNTING STUD (2), 6201 10-32/1/4-28 MTG. STUD, 6213 ADHESIVE MOUNTING BASE, 6309 CARRYING CASE. MODEL **E3120BK** IS IDENTICAL EXCEPT FOR THE 230 VAC OPERATING VOLTAGE

| <u>SYSTEM SPECIFICATIONS</u> | <u>VALUE</u> | <u>UNITS</u> |
|--|---------------|--------------|
| SYSTEM SENSITIVITY @ 100 Hz [1] | 10.00 +/- .05 | mV/G |
| FREQUENCY RESPONSE, ±2% [1] | 10 to 10,000 | Hz |
| LINEARITY | +/- 1 | % F.S. |
| RANGE F.S. FOR 5 VOLTS OUT | +/- 500 | G |
| OPERATING FORCE RANGE [2] | +/- 40 | Force-pounds |
| EQUIVALENT ELECTRICAL NOISE, (BROADBAND) | .02 | G, RMS |
| OUTPUT IMPEDANCE | 2 | Ohms |

ACCELEROMETER MODEL 3120B SPECIFICATIONS

| | | |
|------------------------------------|----------------------------|----------|
| SENSITIVITY, ±5% | 10.5 | mV/G |
| DISCHARGE TIME CONSTANT | 1.0 | Sec |
| COEFFICIENT OF THERMAL SENSITIVITY | .03 | %/°F |
| TEMPERATURE RANGE | -60 to +200 | °F |
| TRANSVERSE SENSITIVITY, MAX | 3 | % |
| ELECTRICAL CONNECTOR, RADIAL | 10-32 COAXIAL | Jack |
| MOUNTING HOLES, TOP & BOTTOM | 10-32 | UNF-2B |
| MATERIAL (NON-MAGNETIC) | 300 SERIES STAINLESS STEEL | |
| SUPPLY CURRENT (CONSTANT CURRENT) | 2 | mA |
| COMPLIANCE VOLTAGE | +20 | VDC |
| WEIGHT | 3/85 | oz/grams |

AMPLIFIER/POWER UNIT 4119B SPECIFICATIONS

| | | |
|------------------------------------|---------------------------|--------------|
| SENSOR SUPPLY CURRENT/VOLTAGE, STD | 2/+20 | mA/VDC |
| FILTER, LOW PASS, ACTIVE | VCVS | 12 db/octave |
| SENSOR/OUTPUT CONNECTOR | BNC/BNC | Coaxial jack |
| INPUT POWER, STD MODEL, 115 VAC | 2.4 | VA |
| INPUT POWER, 'E' MODEL, 230 VAC | 2.4 | VA |
| POWER CORD, STD | 6 FT 3-WIRE W/CHASSIS GND | |
| WEIGHT | 32/900 | oz/grams |
| SIZE (H x W x D) [3] | 5.5 x 1.6 x 8.0 | Inches |
| (H x W x D) [3] | 140 x 41 x 203 | mm |
| TEMPERATURE RANGE | 0 to +120 | ° F |

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

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

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