

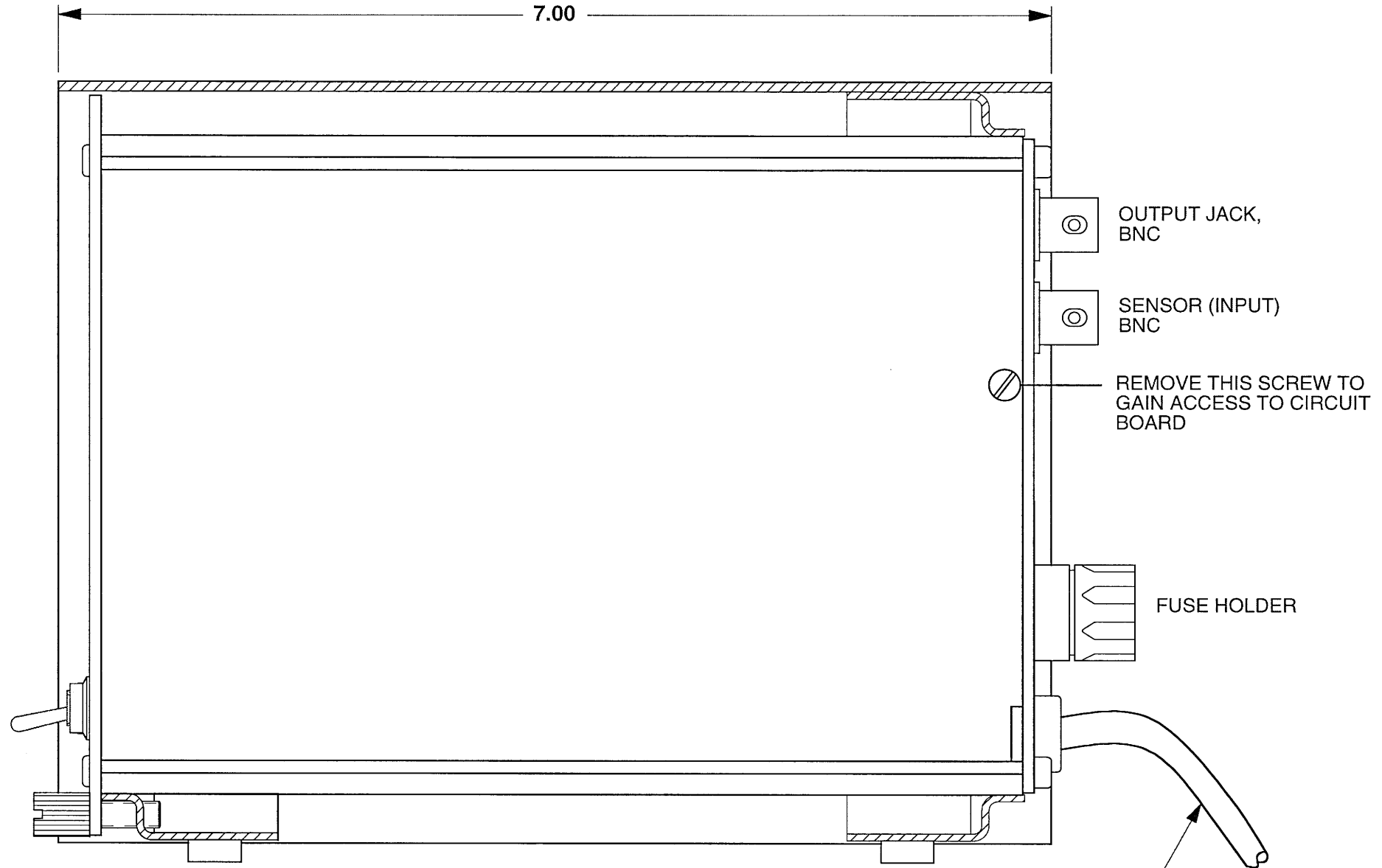
5.52

1.79

10-SEGMENT LED ARRAY  
DC VOLTMETER  
MONITORS SENSOR  
BIAS VOLTAGE

**4119B POWER UNIT**

REMOVE THIS SCREW  
TO REMOVE UNIT FROM  
OUTER CASE



7.00

OUTPUT JACK,  
BNC

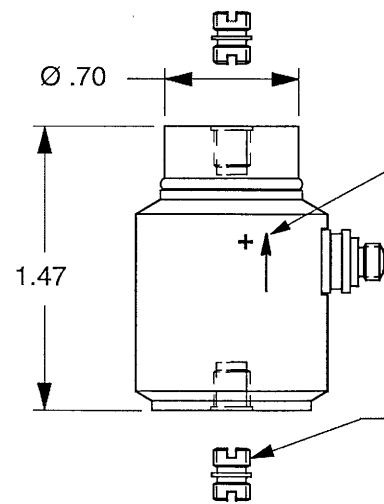
SENSOR (INPUT)  
BNC

REMOVE THIS SCREW TO  
GAIN ACCESS TO CIRCUIT  
BOARD

FUSE HOLDER

LINE CORD, 6 FT.

THIS VIEW IS WITH OUTER  
CASE SECTIONED



SENSE AND DIRECTION OF  
ACCELERATION FOR POSITIVE GOING  
OUTPUT VOLTAGE

MODEL 6200 10-32  
MOUNTING STUD, 2  
PROVIDED

**3123A STANDARD  
ACCELEROMETER**

|  |             |                |               |                |   |
|--|-------------|----------------|---------------|----------------|---|
| <b>DYTRAN</b>  |             | <b>MASTER</b>  |               | CHATSORTH, CA. |   |
| INSTRUMENTS, INC.                                    |             | ONLY IF IN RED |               |                |   |
| SCALE  | 1X          | REV            | -             | DATE           | - |
| DATE   | 8/10/05     | PART NO.       | MODEL 3123AK  |                |   |
| DRAWN  | N.C.        | CHECKED        | R.A.          | MAT'L          |   |
| APPROVED   | [Signature] |                | NEXT ASSEMBLY | USED ON        |   |
| TITLE  |             |                |               | DWG NO.        |   |
| OUTLINE/INSTALLATION DRAWING,<br>SYSTEM MODEL 3123AK |             |                |               | 127-3123AK     |   |
|  |             |                |               | SHEET 1 OF 1   |   |

| <b>SPECIFICATIONS 3123AK SYSTEM</b>                   | <b>VALUE</b>                   | <b>UNITS</b> |
|---|--------------------------------|--------------|
| SYSTEM SENSITIVITY, (Meas at 100 Hz, 1 G, RMS) [2]    | 100 +/- 1%                     | mV/G         |
| FREQUENCY RESPONSE, +/- 2%                            | 10 to 5000                     | Hz           |
| RANGE FULL SCALE FOR +/- 5 V OUT                      | +/- 50                         | G            |
| RANGE, FORCE-POUNDS [3]                               | +/- 10                         | LBS.         |
| <b>SPECIFICATIONS ACCELEROMETER MODEL 3123A [1]</b>   | <b>VALUE</b>                   | <b>UNITS</b> |
| SENSITIVITY, NOM                                      | 100                            | mV/G         |
| COEFFICIENT OF THERMAL SENSITIVITY                    | .06                            | %/°F         |
| TEMPERATURE RANGE                                     | -60 to +250                    | °F           |
| TRANSVERSE SENSITIVITY, MAX                           | 3                              | %            |
| ELECTRICAL NOISE FLOOR, EQUIVALENT                    | .003                           | G            |
| LINEARITY   | +/- 1                          | % F.S.       |
| OUTPUT IMPEDANCE, NOM.                                | 100                            | OHMS         |
| OUTPUT VOLTAGE BIAS, NOM.                             | +11                            | VDC          |
| CONNECTOR, RADIAL                                     | 10-32                          | MINI-COAXIAL |
| SIZE H x DIAMETER                                     | 1.47 x 1.000                   | INCHES       |
| WEIGHT  | 120                            | GRAMS        |
| MATERIAL, HOUSING & CONNECTOR                         | 300 SERIES STAINLESS STEEL     |              |
| ENVIRONMENTAL SEAL                                    | EPOXY                          |              |
| MOUNTING PROVISION, TOP AND BOTTOM                    | 10-32 TAPPED HOLES X .200 DEEP | INCHES       |
| <b>SPECIFICATIONS AMPLIFIER/POWER UNIT MODEL 4119</b> | <b>VALUE</b>                   | <b>UNITS</b> |
| ACCELEROMETER CONSTANT CURRENT                        | 2 FIXED                        | mA           |
| COMPLIANCE (ACCELEROMETER SUPPLY) VOLTAGE             | +20                            | VDC          |
| FILTER, LOW PASS                                      | VCVS, MODIFIED BUTTERWORTH     | 2-POLE       |
| TEMPERATURE RANGE                                     | 0 to +120                      | °F           |
| WEIGHT  | 900                            | GRAMS        |
| CONNECTORS, SENSOR/OUTPUT                             | 10-32/BNC                      |              |
| LINE POWER, 115/230 VAC [4]                           | 2.4                            | VA           |

[1] The 3123AK system consists of (1) 3123A accelerometer, (1) 4119 power unit/amplifier, (1) 6010A05 sensor cable, (1) 6020A05 output cable, (1) 6200 10-32/10-32 mounting stud, (1) 6201 10-32/1/4-28 mounting stud, (1) carrying case.

[2] Calibrated with a Model 3010A transfer standard weighing 19 grams.

[3] Force pounds equals the product of the weight (in pounds) times the G level.

[4] 230 Volt version is model E3123AK.