NOTES: UNLESS OTHERWISE SPECIFIED.

**DRILL HOLE SIZE** | **TOLERANCE**
---|---
.0135 THRU .126 | ±.004 / ±.001
.1260 THRU .250 | ±.005 / ±.001
.2510 THRU .500 | ±.009 / ±.001
.5010 THRU 1.000 | ±.012 / ±.001
1.001 THRU 2.000 | ±.012 / ±.001

**THIRD ANGLE PROJECTION**

**UNLESS OTHERWISE SPECIFIED:**
- REMOVE BURRS.
- COUNTERSINK INTERNAL THDS.
- 90° TO MAJOR DIA.
- CHAM EXTHDS 45° TO MINOR DIA.
- THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
- THDS PER MIL-S-7742.
- DIMENSIONS APPLY AFTER FINISHING.
- ALL MACHINED SURFACES.
- TOTAL RUNOUT WITHIN .005.
- BREAK SHARP EDGES .005 TO .010.
- MACHINED FILLET RADIUS .005 TO .015.
- WELDING SYMBOLS PER AWS A2.4.
- ABBREVIATIONS PER MIL-STD-12.

**MATERIAL:**

**APPROVALS**

**CONTRACT NO.:**

**TITLE:** OUTLINE DRAWING, MODEL 3211A

**SCALE:** 2:1

**ENVIRONMENTAL CODE:**

- 3211A1: 10mV/g
- 3211A2: 100mV/g

**TORQUE MOUNTING BOLT TO:** 15-20 LB-INCHES.
## PERFORMANCE SPECIFICATIONS

### ENGLISH

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>SI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>0.35 oz</td>
</tr>
<tr>
<td>Connector, coaxial Type</td>
<td>10-32</td>
</tr>
<tr>
<td>Mounting Provision, thru hole</td>
<td>Ø.17 thru hole inches</td>
</tr>
<tr>
<td>Material Body/Connector Material</td>
<td>Titanium</td>
</tr>
<tr>
<td>Element Style</td>
<td>Shear</td>
</tr>
</tbody>
</table>

### PHYSICAL

- **Model Number**: 3211A1
- **Model Sensitivity (mV/g)**: 100
- **Frequency Response (Hz)**: 1 to 10000
- **Time Constant (Sec)**: 0.8 to 2.0
- **Operating Temp (°F)**: -67 to 250

### PERFORMANCE

- **Sensitivity +/- 5%**: ± 5% %F.S
- **Range for ± 5 Volts Output**: ± 500 mV, ± 500 mV
- **Frequency Response, ± 5%**: 1.0 to 10000 Hz
- **Resonant Frequency**: > 31 kHz
- **Equivalent Electrical Noise Floor, 1Hz to 1kHz**: 0.005 μVrms
- **Linearity (2)**: ± 1% %F.S
- **Maximum Transverse Sensitivity**: 5% %F.S
- **Strain Sensitivity @250µε**: 0.04 g/µε

### ENVIRONMENTAL

- **Maximum Vibration**: 500 g pk, 500 g pk
- **Maximum Shock**: 4905 g pk, 4905 g pk
- **Temperature Range**: -67 to +250 °F, -51 to +121 °C
- **Seal**: Hermetic
- **Coefficient Of Thermal Sensitivity**: 0.06 %/°F
- **Magnetic Sensitivity @ 100 Gauss (0.01 Tesla)**: 0.004 g/Gauss

### ELECTRICAL

- **Supply Current**: 2 to 20 mA, 2 to 20 mA
- **Compliance Voltage Range**: 18 to 30 V, 18 to 30 V
- **Output Impedance, Typ**: 120 Ω
- **Bias Voltage**: +15 to +13 VDC, +15 to +13 VDC
- **Discharge Time Constant**: 0.8 to 2.0 sec
- **Electrical Isolation [3]**: 10 kΩ, 10 kΩ
- **Output Signal Polarity [4]**: positive, positive

### NOTES

1. Measured at 100Hz, 1 Grms per ISA RP 37.2.
2. Measure using zero-based straight line method, % of F.S. or any lesser range.
3. Electrical ground isolated from sensor mounting surface.
4. For acceleration into base.
5. Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
6. In the interest of constant product improvement, we reserve the right to change specifications without notice.

### SUPPLIED ACCESSORIES

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6595 mounting screw (8-32)
- 3) Model 6597 mounting Screw (M4x.7)

### ADDITIONAL INFORMATION

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3211A for more information.