<table>
<thead>
<tr>
<th>MODEL</th>
<th>SENSITIVITY</th>
<th>OPERATING TEMPERATURE</th>
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<tbody>
<tr>
<td>3313A1</td>
<td>1 mV/g</td>
<td>-60° TO 250° F</td>
</tr>
<tr>
<td>3313A2</td>
<td>5 mV/g</td>
<td>-60° TO 250° F</td>
</tr>
<tr>
<td>3313A3</td>
<td>10 mV/g</td>
<td>-60° TO 250° F</td>
</tr>
<tr>
<td>3313A1H</td>
<td>1 mV/g</td>
<td>-60° TO 325° F</td>
</tr>
<tr>
<td>3313A2H</td>
<td>5 mV/g</td>
<td>-60° TO 325° F</td>
</tr>
<tr>
<td>3313A3H</td>
<td>10 mV/g</td>
<td>-60° TO 325° F</td>
</tr>
<tr>
<td>3313A4</td>
<td>5 mV/g</td>
<td>-320° TO 250° F</td>
</tr>
</tbody>
</table>

**Model 6200 MTG Stud/Provided**

- Recommended mounting torque: 6-8 lb-in.
- 3313AXH mates with Dytran 6811AXX cable (XX= length in feet)
- 3313AX mates with Dytran 6811AXX or 6824AXX cable (XX= length in feet)
- Sensitivity: see chart
- Weight: 4 grams approx.

**Notes:** Unless otherwise specified:
- Material: Titanium Alloy
- Dimensions in brackets [ ] are in millimeters
- Tolerances:
  - Inches: ±0.005
  - Metric: ±0.01
  - ±0.25
  - ±0.25

**Mounting recommendations:**
- Prepare surface at least Ø.45 [14.4]
- Surface flatness must be equal or better than .001 TIR.

**Drawings and Approvals:**
- Cage Code: 2W033
- Drawing Number: 127-3313A
- Scale: 2:1
- Master Only

**Master Instruments, Inc.**

**Title:** Outline/Installation Drawing, 3313A Series
**TRIAXIAL IEPE ACCELEROMETER**

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<th>Model Number</th>
<th>PHYSICAL</th>
<th>PERFORMANCE SPECIFICATION</th>
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### PHYSICAL

- **Weight, Max**: 0.14 oz / 4.1 grams
- **Connector**: 1/4-28.4 - Pin
- **Mounting Provision**: Tapped Hole
- **Material**: Housing / Connector
- **Element Style**: Quartz Planar Shear

### PERFORMANCE

- **Sensitivity, ±10% [1]**: 5 mV/g
- **Range F.S (each axis)**: ±1000 g / ±9810 m/s²
- **Frequency Response, ± 15%**: 1.2 to 10000 Hz / 1.2 to 10000 Hz
- **Equivalent Natural Frequency**: > 30 kHz / > 30 kHz
- **Equivalent Electrical Noise, Max**: 0.009 gms / 0.09 mV/√m/s²
- **Linearity [2]**: ± 1 % F.S. / ± 1 % F.S.
- **Maximum Transverse sensitivity**: 5 % / 5 %
- **Signal Polarity [3]**: Positive / Positive

### ENVIRONMENTAL

- **Maximum Vibration**: ± 2000 g's, peak
- **Maximum Shock**: ±5000 g's, peak
- **Temperature Range**: -60 to +250 °F / -51 to +121 °C
- **Seal**: Hermetic
- **Base Strain**: 0.006 g/µε / 0.06 m/s²/µε

### Electrical

- **Supply Current Range**: 2 to 20 mA
- **Compliance (Supply) Voltage Range**: ±18 to ±30 Volts
- **Output Impedance, Typ**: 100 Ω
- **Bias Voltage**: ±7 to ±9 VDC
- **Discharge Time Constant**: 0.2 to 1.0 Sec
- **Ground Isolation**: Case Ground

### Notes:

1. Measure 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. For motion in direction of arrows on housing.
4. Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
5. In the interest of constant product improvement, we reserve the right to change specifications without notice.
6. Mates with Dytran 6811AXX or 6824AXX cable (XX = Length in feet)

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**Please, 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 stud

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For more information, please visit www.dytran.com

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