VE102 Series

Piezo Electric Velocity Sensor, Side Exit Connector/Cable, 100 mV/in/sec

Product Features

100 mV/in/sec, (4 mV/mm/sec)
Sensitivity
1,5 - 7000 Hz (90 - 420,000 CPM)
Frequency Response

- ±50 in/sec, Peak Dynamic Range
- 2 Pin MIL Connection
- Integrates to Velocity in the Sensor

Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Standard</th>
<th>Metric</th>
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</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
<td>VE102</td>
<td>M/VE102</td>
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<tr>
<td><strong>Sensitivity (±10%)</strong></td>
<td>100 mV/in/sec</td>
<td>4 mV/mm/sec</td>
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<tr>
<td><strong>Frequency Response (±3dB)</strong></td>
<td>90 - 420,000 CPM</td>
<td>1.5 - 7000 Hz</td>
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<tr>
<td><strong>Frequency Response (±10%)</strong></td>
<td>120 - 240,000 CPM</td>
<td>2.0 - 4000 Hz</td>
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<tr>
<td><strong>Dynamic Range (Peak)</strong></td>
<td>±50 in/sec</td>
<td>±1270 mm/sec</td>
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Environmental

- Temperature Range: -58 to 250°F (-50 to 121°C)
- Maximum Shock Protection: 5,000 g, peak
- Electromagnetic Sensitivity: CE
- Sealing: IP68
- Submersible Depth (VE102-2D/3D): 200 ft. (60 m)

Physical

- Sensing Element: PZT Ceramic
- Sensing Structure: Shear Mode
- Weight: 5.1 oz (145 grams)
- Case Material: 316L Stainless Steel
- Mounting Hole: 1/4-28
- Connector (non-integral): 2 Pin MIL-C-5015
- Resonant Frequency: 1,320,000 CPM (22000 Hz)
- Mounting Torque: 2 to 5 ft. lbs. (2.7 to 6.8 Nm)
- Mounting Hardware: 1/4-28 Captive Bolt (M6x1 Captive Bolt)
- Calibration Certificate: CA10

Ordering Information

<table>
<thead>
<tr>
<th>Standard</th>
<th>VE102-1D</th>
<th>VE102-2D</th>
<th>VE102-3D</th>
<th>VE102-6D</th>
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Cable Termination Options:

- E
- F
- L
- Z