330500 VELOMITOR

# Product Data Sheet

## 330500-01-IN

Piezoelectric casing velocity sensor

| MOUNTING ADAPTER SELECTION | SENSITIVITY | WIDE FREQUENCY RESPONSE | NARROW FREQUENCY RESPONSE |
|---|---|---|---|
| **01: 1/2-20 UNF** | **3.94 mV/(mm/s) +/-5%** | **4.5 Hz-5 kHz, +/-3 dB** | **6 Hz-2.5 kHz, +/-0.9 dB** |

Bently Nevada 330500-01-IN is a Velomitor piezoelectric velocity sensor for absolute casing vibration. Solid-state sensing and integral electronics produce a velocity-proportional output with a nominal 3.94 mV/(mm/s) sensitivity.

## 01 TECHNICAL DATA

| | |
|---|---|
| Mounting adapter selection | 01: 1/2-20 UNF |
| Sensitivity | 3.94 mV/(mm/s) +/-5% |
| Wide frequency response | 4.5 Hz-5 kHz, +/-3 dB |
| Narrow frequency response | 6 Hz-2.5 kHz, +/-0.9 dB |
| Peak velocity range | 1270 mm/s |
| Transverse sensitivity | Below 5% |
| Amplitude linearity | +/-2% to 152 mm/s peak |
| Mounted resonance | Above 12 kHz |
| Output bias | -12 +/-3 V DC |
| Dynamic output impedance | Below 2400 ohm |

Bently Nevada 330500 Velomitor Datasheet 141632 Rev. V, applicable specification, ordering and dimensional sections.

## 02 ADDITIONAL PRODUCT DATA

| | |
|---|---|
| Broadband noise | 0.004 mm/s rms nominal |
| Case grounding | Isolated |
| Operating temperature | -55 to +121 C |
| Connector | Two-pin MIL-C-5015 |
| Case alloy | 316L stainless steel |

## 03 PRODUCT FUNCTION

The 01 selection identifies the 1/2-20 UNF mounting adapter. The hermetically sealed 316L stainless steel case has a two-pin MIL-C-5015 connector and isolated grounding. The IN suffix is retained as part of the full identity without assigning a regional approval rating not decoded in the common datasheet.

## 04 SYSTEM COMPATIBILITY

Match the 1/2-20 UNF mounting adapter and preserve the connector pin convention. Pin A becomes positive relative to B when the sensor case moves toward the connector. The common source gives a -12 +/-3 V DC output bias over the specified temperature conditions.

## 05 REFERENCE

Bently Nevada 330500 Velomitor Datasheet 141632 Rev. V, applicable specification, ordering and dimensional sections.

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