

Internally amplified velocity sensor

HA100V

SPECIFICATIONS

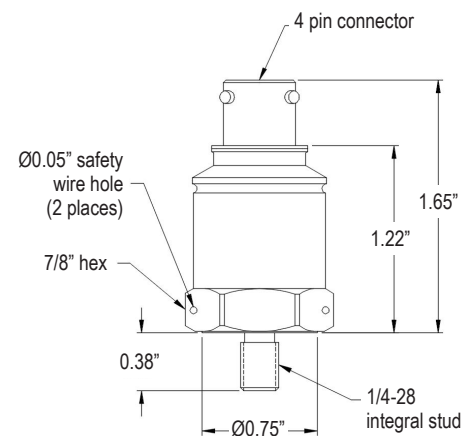
| | | |
|---|-------------------------|-------------------------------------|
| Sensitivity, $\pm 10\%$, 25°C | | 20 mV/in/sec |
| Velocity range | | 400 in/sec peak |
| Amplitude nonlinearity | | 1% |
| Frequency response: | $\pm 10\%$ | 5 - 4,000 Hz |
| | ± 3 dB | 2.5 - 7,000 Hz |
| Resonance frequency, mounted, nominal | | 30 kHz |
| Transverse sensitivity, max | | 5% of axial |
| Temperature response: | -50°C | -15% |
| | +120°C | +5% |
| Power requirement (current draw) | | <0.5 mA |
| Electrical noise, equiv. in/sec, nominal: | | |
| Broadband | 2.5 Hz to 25 kHz | 700 μ in/sec |
| Spectral | 10 Hz | 80 μ in/sec/ $\sqrt{\text{Hz}}$ |
| | 100 Hz | 8 μ in/sec/ $\sqrt{\text{Hz}}$ |
| | 1,000 Hz | 1 μ in/sec/ $\sqrt{\text{Hz}}$ |
| Output impedance, max | | 100 Ω |
| Bias output voltage, nominal | | 0 VDC |
| Grounding | | case isolated |
| Temperature range | | -50° to +120°C |
| Vibration limit | | 250 g peak |
| Shock limit | | 1,000 g peak |
| Electromagnetic sensitivity, equiv. in/sec | | 50 μ in/sec/gauss |
| Weight | | ≤ 78 grams |
| Case material | | 316L stainless steel |
| Mounting | | 1/4-28 x 0.38" integral stud |
| Output connector | | 4-pin, MIL-C-26482 style |
| Mating connector | | R4V |
| Recommended cabling | | Four conductor shielded |

Accessories supplied: Calibration data



Key features

- Manufactured in ISO 9001 facility



| Connections | |
|-------------|---------------|
| Function | Connector pin |
| -9 VDC | A |
| common | B |
| +9 VDC | C |
| signal out | D |

Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.