Piezovelocity transducer

797V

SPECIFICATIONS

| Sensitivity, ±10%, 25°C | | 100 mV/in/sec |
|--|---|---|
| Velocity range | | 50 in/sec peak |
| Amplitude nonlinearity | | 1% |
| Frequency response: | ±10% ±3 dB | 2.0 - 3,500 Hz 1.6 - 7,000 Hz |
| Resonance frequency | | 18 kHz |
| Transverse sensitivity, max | | 5% of axial |
| Temperature response: | –50°C +120°C | –15% +10% |
| Power requirement: Voltage source Current regulating diode | | 18 - 30 VDC 2 - 10 mA |
| Electrical noise, equiv. in/sec: Broadband 2.5 Hz t Spectral | o 25 kHz 10 Hz 100 Hz 1,000 Hz | 100 µin/sec 10 µin/sec/√Hz 0.8 µin/sec/√Hz 0.1 µin/sec/√Hz |
| Output impedance, 4-20 mA su | pply | the greater of: 200 Ω or 5,000/f |
| Bias output voltage | | 10 VDC |
| Grounding | | case isolated, internally shielded |
| Temperature range | | –50° to +120°C |
| Vibration limit | | 250 g peak |
| Shock limit | | 2,500 g peak |
| Electromagnetic sensitivity, eq | uiv. in/sec | 50 µin/sec/gauss |
| Sealing | | hermetic |
| Base strain sensitivity | | 0.004 in/sec/µstrain |
| Sensing element design | | PZT ceramic / shear |
| Weight | | 148 grams |
| Case material | | 316L stainless steel |
| Mounting | | 1/4-28 captive socket head screw |
| Output connector | | 2 pin, MIL-C-5015 style |
| Mating connector | | R6 type |
| Recommended cabling | | J9T2A |

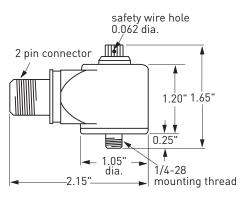
SENSING TECHNOLOGIES



Key features

 Certified version available for use in hazardous areas (model 797VE)

Manufactured in ISO 9001 facility



Accessories supplied: #12105-01 captive socket head (metric mounting available); calibration data (level 3)

Certifications

| All 797V models | 797VE | |
|-----------------|-----------------|---|
| CE | F M APPROVED | Class I, II, III, T4 Div 1 Groups A, B, C, D, E, F, G Div 2 Groups A, B, C, D, F, G |

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

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| Connections | |
|--------------|---------------|
| Function | Connector pin |
| power/signal | A |
| common | В |
| ground | shell |

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Amphenol: 797V