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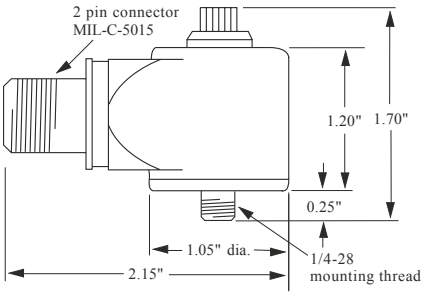
ALTHERIS SENSORS & CONTROLS

# Model 797V
# Low profile, IsoRing® PiezoVelocity transducer PVT™

## Features

- Rugged design
- Internally integrated to velocity • Eliminates distortion caused by high frequency signals
- Corrosion resistant
- ESD protection
- Reverse wiring protection
- Mounts in any orientation




## Dynamic

| | |
|---|---|
| Sensitivity, ±10%, 25°C | 100 mV/in/sec |
| Velocity range | 50 in/sec peak |
| Amplitude nonlinearity | 1% |
| Frequency response: | |
| ±10% | 2.0 - 3,500 Hz |
| ±3 dB | 1.6 - 7,000 Hz |
| Resonance frequency | 18 kHz |
| Transverse sensitivity, max | 5% of axial |
| Temperature response | –50°C –15%<br>+120°C +10% |

## Electrical

| | | |
|---|---|---|
| Power requirement: | voltage source | 18 - 30 VDC |
| | current regulating diode | 2 - 10 mA |
| Electrical noise, equiv. in/sec: | | |
| Broadband | 2.5 Hz to 25 kHz | 100 µin/sec |
| Spectral | 10 Hz | 10 µin/sec |
| | 100 Hz | 0.8 µin/sec |
| | 1000 Hz | 0.1 µin/sec |
| Output impedance, 4mA supply, the greater of | | 5,000/f or |
| 200Ω Bias output voltage | | 10 VDC |
| Grounding | | case isolated, internally shielded |

## Environmental

| | |
|---|---|
| Temperature range | –50 to 120°C |
| Vibration limit | 250 g peak |
| Shock limit | 2,500 g peak |
| Electromagnetic sensitivity, equiv. in/sec | 50 µin/sec/gauss |
| Sealing | hermetic |
| Base strain sensitivity | 0.004 in/sec/µstrain |

## Physical

| | |
|---|---|
| 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 cable | J9T2A |

| Connector pin | Function |
|---|---|
| Shell | ground |
| A | power/ signal |
| B | common |

Accessories supplied:#12105-01captive socket head (International customers specify mounting requirements); calibration data (level 3)
Options: Intrinsic safety certifications

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