

Radiation resistant accelerometer

797R

SPECIFICATIONS

| | |
|---------------------------------------|------------------------------------|
| Sensitivity, $\pm 5\%$, 25°C | 100 mV/g |
| Acceleration range | 50 g peak |
| Amplitude nonlinearity | 1% |
| Frequency response: | |
| $\pm 5\%$ | 3 - 5,000 Hz |
| $\pm 10\%$ | 2 - 7,000 Hz |
| ± 3 dB | 1 - 15,000 Hz |
| Resonance frequency | 26 kHz |
| Transverse sensitivity, max | 5% of axial |
| Temperature response: | |
| -50°C | -5% |
| +120°C | +5% |
| Power requirement: | |
| Voltage source | 18 - 28 VDC |
| Current regulating diode | 2 - 10 mA |
| Electrical noise, equiv. g: | |
| Broadband | 2.5 Hz to 25 kHz |
| Spectral | 10 Hz |
| 100 Hz | 5 $\mu\text{g}/\sqrt{\text{Hz}}$ |
| 1,000 Hz | 5 $\mu\text{g}/\sqrt{\text{Hz}}$ |
| Output impedance, max | 100 Ω |
| Bias output voltage | 12 VDC |
| Grounding | case isolated, internally shielded |
| Temperature range | -50° to +120°C |
| Vibration limit | 500 g peak |
| Shock limit | 5,000 g peak |
| Electromagnetic sensitivity, equiv. g | 30 $\mu\text{g}/\text{gauss}$ |
| Sealing | hermetic |
| Base strain sensitivity | 0.002 g/ μstrain |
| Radiation exposure limit | 1 x 10 ⁷ RADs |
| Sensing element design | PZT, shear |
| Weight | 135 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 | J9T2 |

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

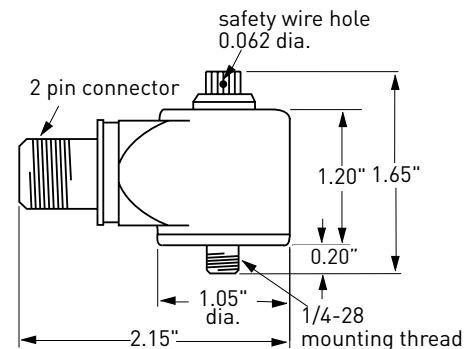


Note: Due to continuous process improvement, specifications are subject to change without notice.
This document is cleared for public release.



Key features

- Radiation rated
- Manufactured in ISO 9001 facility



| Connections | |
|--------------|---------------|
| Function | Connector pin |
| power/signal | A |
| common | B |