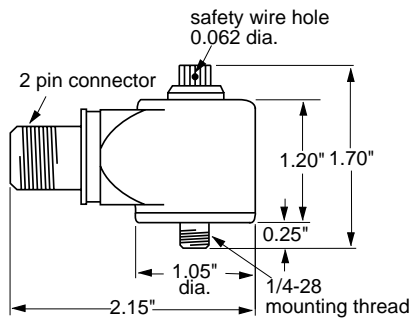




## Model 797 Premium, PiezoFET®, Low Profile IsoRing® Accelerometer

### FEATURES:

- Rugged design
- Corrosion resistant
- Hermetic seal
- Ground isolated
- ESD protection
- Miswiring protection
- Mounting in any orientation



### DYNAMIC

|                                     |                         |
|-------------------------------------|-------------------------|
| 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            |
| $\pm 3$ dB .....                    | 1 - 12,000 Hz           |
| Resonance Frequency .....           | 26 kHz                  |
| Transverse Sensitivity, max .....   | 5% of axial             |
| Temperature Response .....          | -50°C -5%<br>+120°C +5% |

### ELECTRICAL

|   |                                       |
|---|---------------------------------------|
| Power Requirement: voltage source ..... | 18 - 30 VDC                           |
| current regulating diode .....          | 2 - 10 mA                             |
| Electrical Noise, equiv. g:             |                                       |
| Broadband 2.5 Hz to 25 kHz .....        | 600 $\mu$ g                           |
| Spectral 10 Hz .....                    | 8 $\mu$ g/√Hz                         |
| 100 Hz .....                            | 5 $\mu$ g/√Hz                         |
| 1000 Hz .....                           | 5 $\mu$ g/√Hz                         |
| Output Impedance, max. ....             | 100 $\Omega$                          |
| Bias Output Voltage .....               | 12 VDC                                |
| Grounding .....                         | case isolated,<br>internally shielded |

### ENVIRONMENTAL

|   |                       |
|---|-----------------------|
| Temperature Range .....                     | -50 to 120°C          |
| Vibration Limit .....                       | 500 g peak            |
| Shock Limit .....                           | 5,000 g peak          |
| Electromagnetic Sensitivity, equiv. g ..... | 30 $\mu$ g/gauss      |
| Sealing .....                               | Hermetic              |
| Base Strain Sensitivity .....               | 0.002 g/ $\mu$ strain |

### PHYSICAL

|                              |                                     |
|------------------------------|-------------------------------------|
| Sensing Element Design ..... | PZT ceramic / shear                 |
| Weight .....                 | 135 grams                           |
| Case Material .....          | 316L stainless steel                |
| Mounting .....               | 1/4-28 captive socket<br>head screw |
| Output Connector .....       | 2 pin, MIL-C-5015<br>style          |
| Mating Connector .....       | R6 type                             |
| Recommended Cabling .....    | J10 / J9T2A                         |

| CONNECTOR PIN | FUNCTION      | CABLE CONDUCTOR COLOR |
|---------------|---------------|-----------------------|
| SHELL         | ground        | Shield                |
| A             | power/ signal | White                 |
| B             | common        | Black                 |

**ACCESSORIES SUPPLIED:** #12105-01 captive socket head (metric studs available upon request); Calibration data (level 3).

**OPTIONS:** Intrinsic Safety certifications.

