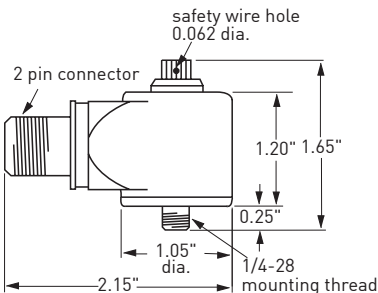




# Model 797 Premium, PiezoFET®, low profile IsoRing accelerometer

**Features**

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



**Dynamic**

Sensitivity, ±5%, 25°C .....	100 mV/g
Acceleration range .....	50 g peak
Amplitude nonlinearity .....	1%
Frequency response:	
±5% .....	3 - 5,000 Hz
±10% .....	2 - 7,000 Hz
±3 dB .....	1 - 12,000 Hz
Resonance frequency .....	26 kHz
Transverse sensitivity, max .....	5 % of axial
Temperature response:	
-50°C .....	-5%
+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 µg
Spectral 10 Hz .....	8 µg/√Hz
100 Hz .....	5 µg/√Hz
1000 Hz .....	5 µg/√Hz
Output impedance, max .....	100 Ω
Bias output voltage .....	12 VDC
Grounding .....	case isolated, 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 µg/gauss
Sealing .....	hermetic
Base strain sensitivity .....	0.002 g/µstrain

**Physical**

Sensing element design .....	PZT ceramic / shear
Weight .....	138 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 .....	J10 / J9T2A

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Accessories supplied: #12105-01 captive socket head (metric stud available upon request); calibration data (level 3)  
Options: Intrinsic safety certifications (consult factory)

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