

PP-SAT-51-100



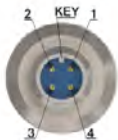
Main Characteristics

- IEPE Piezoelectric annular shear mode
- 2, 10, 50, 100, 250, 500, 1000 mV/g version available
- Dual case isolation with internal Faraday shield (suitable for permanent installation, no need for insulation pad, no ground loop)
- Hermetically sealed (laser welded)
- Atex Approval available

Typical applications

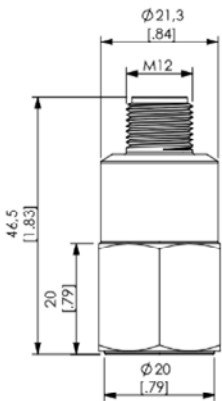
Vibrations measurement in the rugged environments of industrial machinery monitoring. High frequency versions monitor the vibration on roller bearing, pump cavitation, The medium frequency version monitors overall vibration on pumps, motors, fans, ... Low frequency models are used in the petrochemical, machine tool, and paper industries for monitoring slow speed agitators, cooling towers, ... A high temperature version is typically used where extra temperature protection is needed, such as the dryer section of a paper machine.

Connection



- Pin 1 - not connected
- Pin 2 - IEPE (+)
- Pin 3 - not connected
- Pin 4 - 0V

Drawing



Technical Performance

Sensitivity	100 mV/g ± 10% (±5% optional)
Frequency Response	±3 dB : 0.5 to 12 000 Hz
Technical Dynamic Range	±80 g pk.
Mounted Base Resonance	25 kHz Nom.

Mechanical

Case Material	AISI 316L, DIN 1.4404 (Stainless steel)
Design	Ceramic, annular shear mode
Weight with connector	85 g Nom (3.0 Oz)
Mounting Threads	typically 1/4" 28 UNF-2A (optional M8x1.25)

Electrical

Residual Noise (24 °C)	1 Hz - 30ug/sqrt (Hz) 10 Hz -6ug/sqrt (Hz) 100 Hz -5 ug/sqrt (Hz) 1000 Hz -5ug/sqrt (Hz) +2 to +10mA DC +22 to +28V DC < 1 Sec
Constant current	
Voltage	
Warm up time	
Protection:	
Protection Overvoltage	Yes
Reverse polarity	Yes
ESD Protection	> 40 V

Environmental

Operating Temperature Range	-55 to 120°C
Sealing	IP68
Acceleration limit: Shock	5000 g

