


DATASHEET

Product information IVIB251120-IEPE-T1AX

Name	IVIB251120-IEPE-T1AX
	
	Industrial IEPE annular shear piezoelectric accelerometer, industry standard ICP/ IEPE /LIVM 2-wire voltage transmission technique with a 4mA standard constant current supply, dual case isolation with Faraday shield, isolated from machine ground, lifetime hermetic sealing, overvoltage protection, reverse polarity protection, ESD protection, EMC compliant, RoHS compliant.
Product description	
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Note	The IEPE accelerometers withstand 120°C and many chemicals, can be submersed up to 150m and are shock resistant. The glass seal hermetic connector protects the piezoelectric disc and the electronics from harmful environmental influences making the sensors suited for vibration measurements in harsh industrial environments.
Number of output connectors	1
Color of housing	Stainless steel
Product specifications	
Material	AISI 316L, DIN 1.4404 (Stainless steel)
Weight	85 g
Connector	Mil glass seal hermetic connector
Operating temperature	-55° to 120°C
Sensitivity	100 mV/g ± 10 %
Frequency response	±10 %: 1 to 9000 Hz ±3 dB: 0.5 to 14000 Hz
Mounted resonant frequency	25 kHz Nom.
Dynamic range	80 g pk
Linearity	±1% Max
Warm up time	< 1 sec
Isolation (case to shield)	100 MΩ Min
Capacitance to ground	70 pF Nom
Output impedance	50 Ω Nom
DC output bias (4mA supply)	12 VDC Nom
Constant current supply	2 to 10mA DC
Voltage supply	22 to 28 VDC
Acceleration shock limit	5000 g peak
Continuous vibration	500 g peak

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Picture & Drawing	
	<p>Technical drawings of the IEPE Vibration Sensor:</p> <ul style="list-style-type: none"> Top View: Shows a hexagonal base with a diameter of $\text{Hex } 22$. It features two electrical terminals labeled $B(-)$ and $A(+)$, and a key for mounting. Side View: Shows the sensor's profile with dimensions: <ul style="list-style-type: none"> Top diameter: $\text{Ø } 21,30$ [$.84$] Thread: $5/8" \text{ } 24 \text{ UNEF2A}$ Total height: $50,8$ [$2,00$] Base diameter: $\text{Ø } 20$ [$.79$] Base height: 20 [$.79$] Internal View: Shows the internal components including the Internal shield, the Case, and the internal circuitry. Arrows indicate the signal path from the sensor element through the shield and case to the output terminals.