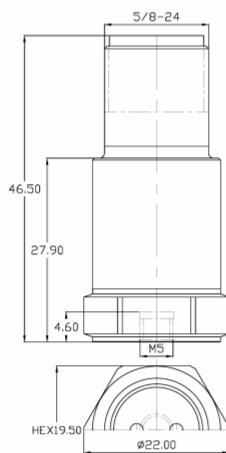


Industrial Accelerometer

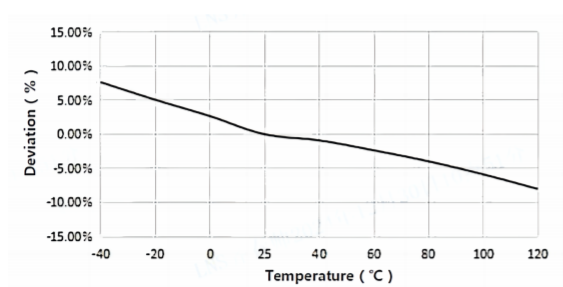
DETAILS

BXXA57 series industrial-type sensors, shear core structure, with a wide-band frequency response, high-quality piezoelectric ceramic with long-term output stability characteristics. Internal IEPE two-wire circuitry at the same time to provide a constant-current source of excitation and low-impedance voltage signal output signal ground and shell isolation. The housing is made of stainless steel with laser welded seals to ensure corrosion resistance and good sealing, and the industry standard MIL-C-5015 dual-core connector output.

Fig_1 Dimensions of BXXA57



Fig_2 Typical Temperature Response



FEATURES

- Industrial Accelerometer
- Double layer shielding
- Shear structure
- Broadband response

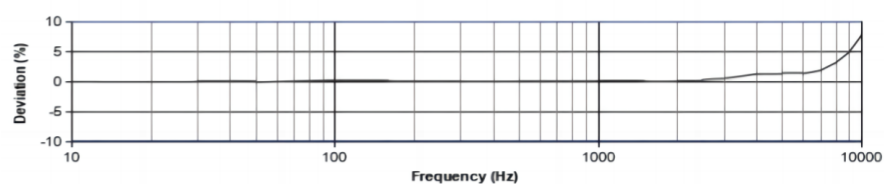
TYPICAL APPLICATIONS

- Wind turbines
- Rapid transit
- Construction machinery



BXXA57

Fig_3 Typical Frequency Response



Specifications-BXXA57

MODEL NUMBER		UNIT	B06A57	B07A57	B09A57	B10A57
PERFORMANCE						
Sensitivity ¹		mV/g	100	250	500	1000
		mV/(m/s²)	10	25	50	100
Measurement Range		g	±50	±20	±10	±5
Broadband Resolution ²		g rms	0.0001	0.00004	0.00002	0.00001
Non-Linearity ³		%	1			
Frequency Range	± 5%	Hz	1-8k	1-8k	0.5-5k	0.5-4k
	±10%		0.5-10k	0.5-10k	0.2-6k	0.2-5k
Resonance Frequency ²		Hz	≥27k	≥27k	≥27k	≥27k
Discharge Time Constant ²		s	≤1			
Transverse Sensitivity		%	≤5			
ELECTRICAL						
Excitation Voltage		VDC	20-30			
Constant Current Excitation		mA	2-20			
Output Impedance		Ω	≤100			
Output Bias Voltage		V	10-14			
Electrical Isolation		Ω	≥1×10 ⁸			
Spectral Noise ²	10Hz	μg/√Hz	6	3	1.2	0.6
	100Hz		2.4	1.2	0.48	0.24
	1000Hz		1.6	0.8	0.32	0.16
ENVIRONMENTAL						
Sinusoidal Vibration Limit ⁴		g rms	400	400	400	400
Shock Limit ⁴		g pk	1000	1000	1000	1000
Temperature Range		°C	-40~120			
		°F	-40~248			
Temperature Response ²		%/°C	-0.1			
PHYSICAL						
Sealing		-	Laser welding IP68			
Sensing Element		-	Piezoelectric ceramics			
Housing Material		-	Stainless steel			
Size	mm	HEX 19.50×46.50				
	in	HEX 0.768×1.831				
Electrical Connector		-	MIL-C-5015 2-pin Top			
Mounting Thread		-	M5 (Opt. 10-32)			
Weight ²	g	58.5	58.5	58.5	58.5	
	oz	2.064	2.064	2.064	2.064	
TEDS Optional ⁵		-	Yes			

Additional Information

Note:

1. @ 160Hz, 24VDC, 4mA conditions
2. Typical values
3. JBT 6822-2018 7.12.1 Vibration Testing Method
4. References the mechanical structure of the sensor not being damaged in a non powered state, rather than in a working state
5. Some products may have changes in size after adding TEDS

BXXA57

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONALVERSIONS

-E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS



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