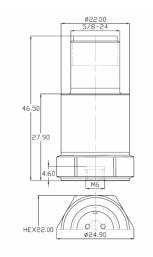


Industrial Accelerometer

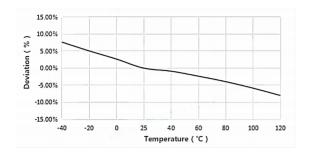
DETAILS

BXXA54T series industrial using type sensors, piezoelectric ceramic shear structure, has a wide band frequency response, high quality piezoelectric ceramics with long-term stability can ensure years of accurate measurement. Internal IEPE two-wire circuitry provides both constant current source excitation and low impedance voltage signal output, signal ground and housing 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 BXXA54T



Fig_2 Typical Temperature Response



FEATURES

- ·Temperature and Vibration Measurement
- · Double layer shielding
- · Shear structure
- · Broadband response

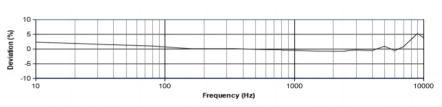
TYPICAL APPLICATIONS

- · Wind turbines
- · Rapid transit
- · Construction machinery



BXXA54T

Fig_3 Typical Frequency Response





Specifications-BXXA54T

ge tion ² 5%(Hz) 10%(Hz) ency ² onstant ² vity	mV/g mV/(m/s²) g g rms % Hz Hz s	100 10 ±50 0.0001 1 1-8k 0.5-10k ≥27k	500 50 ±10 0.00002 0.5-4k 0.2-5k ≥27k
5%(Hz) 10%(Hz) ency ² onstant ²	g g rms % Hz Hz s	10 ±50 0.0001 1 1-8k 0.5-10k ≥27k	50 ±10 0.00002 0.5-4k 0.2-5k ≥27k
5%(Hz) 10%(Hz) ency ² onstant ²	g g rms % Hz Hz s	±50 0.0001 1 1-8k 0.5-10k ≥27k ≤1	±10 0.00002 0.5-4k 0.2-5k ≥27k
5%(Hz) 10%(Hz) ency ² onstant ²	g rms % Hz Hz	0.0001 1 1-8k 0.5-10k ≥27k	0.00002 0.5-4k 0.2-5k ≥27k
5%(Hz) 10%(Hz) ency ² onstant ²	% Hz Hz S	1 1-8k 0.5-10k ≥27k ≤1	0.5-4k 0.2-5k ≥27k
10%(Hz) ency ² onstant ²	Hz Hz	1-8k 0.5-10k ≥27k ≤1	0.2-5k ≥27k
10%(Hz) ency ² onstant ²	Hz s	0.5-10k ≥27k ≤1	0.2-5k ≥27k
ency ² onstant ²	Hz s	≥27k ≤1	≥27k
onstant ²	S	<u> </u> ≤1	
	+		
vity	%	75	
		≤5	
	VDC	20-30	
Excitation	mA	2-20	
)	Ω	≤10	0
је	V	10-14	
	Ω	≥1×10 ⁸	
Spectral Noise ²		6	1.2
	μg/√Hz	2.4	0.48
		1.6	0.32
TAL			
n Limit ⁴	g	400	400
	g	1000	1000
Temperature Range	°C	-40~120	
	°F	-40~248	
onse ²	%/°C	-0.1	
	-	Laser welding IP68	
	-	Piezoelectric ceramics	
	-	Stainless steel	
Size	mm	HEX 22.00×46.50	
	in	HEX 0.866×1.831	
or	-	MIL-C-5015 3-pin Top	
	-	M6	
Weight ²	g	66	66
	OZ	2.328	2.328
	rAL n Limit ⁴ e	Ω	Ω

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

BXXA54T

Supplied Accessories:

- Product Verification Report
- Install Screws

COMPLIANCE WITH STANDARDS









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