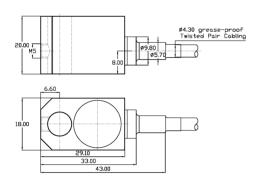


Double Shielded Accelerometer

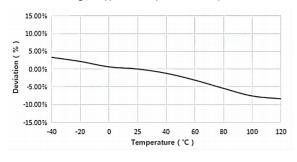
DETAILS

BXXC51 industrial shear type sensor, core bandwidth frequency structure, with a wide response, high-quality piezoelectric ceramics with long-term stability of the output characteristics. Internal IEPE two-wire circuitry to provide constant current source excitation and low impedance voltage signal output signal ground and shell isolation. The shell is made of titanium alloy with welding sealing to ensure corrosion laser resistance and good sealing, waterproof design, oil-resistant dual-core cable output.

Fig_1 Dimensions of BXXC51



Fig_2 Typical Temperature Response



FEATURES

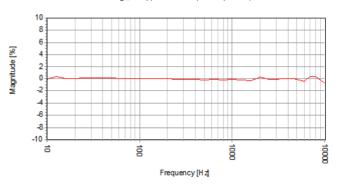
- · Shear structure
- · Double layer shielding
- · Water and oil resistant
- · 360° mounting

TYPICAL APPLICATIONS

- ·Lathe monitoring
- ·Bearing gearbox monitoring
- · Equipment monitoring



Fig_3 Typical Frequency Response





Specifications-BXXC51

MODEL NUMBER		UNIT	B05C51	B06C51
PERFORMANO	E			
Sensitivity ¹		mV/g	50	100
		mV/(m/s²)	5	10
Measurement Range		g	±100	±50
Broadband Resolution ²		g rms	0.0002	0.0001
Non-Linearity ³		%	1	
Pango	5%	11-	2-8k	2-8k
	10%	Hz —	1-10k	1-10k
Resonance Frequency ²		Hz	≥25k	≥25k
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		12	6
	100Hz	µg/√Hz	4.8	2.4
	1000Hz	1	3.2	1.6
ENVIRONMEN	TAL			
Sinusoidal Vibration Limit ⁴		g rms	3000	2500
Shock Limit ⁴		g pk	5000	4000
SHOCK LITTIL			-40~120	
		°C	-40~	120
Temperature Rang	ge	°C °F	-40~ -40~	
				248
Temperature Ranç		°F	-40~	248
Temperature Ranç		°F	-40~	248
Temperature Ranç Temperature Resp		°F %/°C	-40~ -0	248 1.1 ding IP68
Temperature Rang Temperature Resp PHYSICAL Sealing		°F %/°C	-40~ -0 Laser wel	248 1.1 ding IP68 c ceramics
Temperature Rang Temperature Resp PHYSICAL Sealing Sensing Element Housing Material		°F %/°C	-40~ -0 Laser weld Piezoelectri	248 2.1 ding IP68 c ceramics m Alloy
Temperature Rang Temperature Resp PHYSICAL Sealing Sensing Element		°F %/°C	-40~ -0 Laser wel Piezoelectri Titaniur	248 1.1 ding IP68 c ceramics m Alloy ×29.10
Temperature Rang Temperature Resp PHYSICAL Sealing Sensing Element Housing Material	ponse ²	°F %/°C mm	-40~ -0 Laser wel Piezoelectri Titaniur 18×20	248 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1
Temperature Rang PHYSICAL Sealing Sensing Element Housing Material Size	ponse ²	°F %/°C mm in	-40~ Laser weld Piezoelectri Titaniur 18×203	248 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1 2.1
Temperature Rang Temperature Resp PHYSICAL Sealing Sensing Element Housing Material Size Electrical Connect	ponse ²	°F %/°C mm in	-40~ Laser weld Piezoelectri Titaniur 18×20> 0.709×0.7	ding IP68 c ceramics m Alloy <29.10 787×1.146 cable Side

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

BXXC51

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONALVERSIONS

-A: 10-32 Output Connector -E: 10-32 Mounting Threads

COMPLIANCE WITH STANDARDS









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