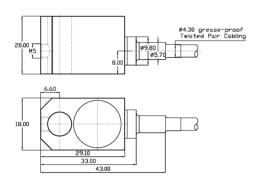


Double Shielded Accelerometer

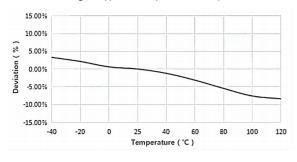
DETAILS

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

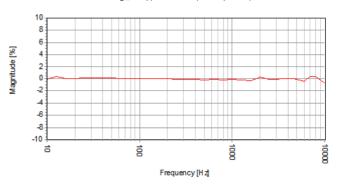
- · Shear structure
- · Double layer shielding
- · Water and oil resistant
- · 360° mounting

TYPICAL APPLICATIONS

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



Fig_3 Typical Frequency Response





Specifications-BXXC51

MODEL NUMBER		UNIT	B05C51	B06C51
PERFORMA	NCE			
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	
Frequency Range	± 5%(Hz)	11-	2-8k	2-8k
	±10%(Hz)	Hz —	1-10k	1-10k
Resonance Frequency ²		Hz	≥25k	≥25k
Discharge Time Constant ²		s	≤1	
Transverse Sensitivity		%	≤5	
ELECTRICA	L			
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			12	6
		μg/√Hz	4.8	2.4
			3.2	1.6
ENVIRONM	ENTAL			
Sinusoidal Vibration Limit ⁴		g	7000	2500
Sinusoidal Vibr	ration Limit ⁴	9	3000	2500
Shock Limit ⁴	ration Limit ⁴	g	5000	4000
Shock Limit ⁴			5000	
		g	5000	4000
Shock Limit ⁴	Range	°C g	5000 -40 -40	4000
Shock Limit ⁴ Temperature R	Range	9 °C °F	5000 -40 -40	4000 120 248
Shock Limit ⁴ Temperature R Temperature R	Range	9 °C °F	5000 -40 -40	4000 120 248
Shock Limit ⁴ Temperature R Temperature R PHYSICAL	Range Response ²	g °C °F %/°C	5000 -40 -40 -(Laser we	4000 120 248 0.1
Shock Limit ⁴ Temperature R Temperature R PHYSICAL Sealing	Range Response ² ent	g °C °F %/°C	5000 -40 -40 -40 Laser we	4000 1~120 ~248 0.1
Shock Limit ⁴ Temperature R Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater	Range Response ² ent	g °C °F %/°C	5000 -40 -40 -(Laser we Piezoelectr Titaniu	4000 1~120 ~248 0.1 Iding IP68 ric ceramics
Shock Limit ⁴ Temperature R Temperature R PHYSICAL Sealing Sensing Eleme	Range Response ² ent	g °C °F %/°C	5000 -40 -40 Laser we Piezoelectri Titaniu 18×20	4000 1~120 ~248 0.1 Iding IP68 ric ceramics
Shock Limit ⁴ Temperature R Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater Size	Range Response ² ent	9 °C °F %/°C mm	5000 -40 -40 -40 Laser we Piezoelectr Titaniu 18×20 0.709×0.	4000 1~120 ~248 0.1 clding IP68 ric ceramics Im Alloy 0×29.10
Shock Limit ⁴ Temperature R Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater	Range Response ² ent rial	g °C °F %/°C mm in	5000 -40 -40 Laser we Piezoelectr Titaniu 18×20 0.709×0. Connected	4000 1~120 ~248 0.1 Idding IP68 ric ceramics Im Alloy 0×29.10 1.787×1.146
Shock Limit ⁴ Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater Size Electrical Conr	Range Response ² ent rial	g °C °F %/°C mm in	5000 -40 -40 Laser we Piezoelectr Titaniu 18×20 0.709×0. Connected	4000 1~120 ~248 0.1 Idding IP68 ric ceramics Im Alloy 0×29.10 787×1.146 Id 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 state5. Some products may have changes in size after adding TEDS

BXXC51

Supplied Accessories:

- Product Verification Report
- Install Screws

COMPLIANCE WITH STANDARDS









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