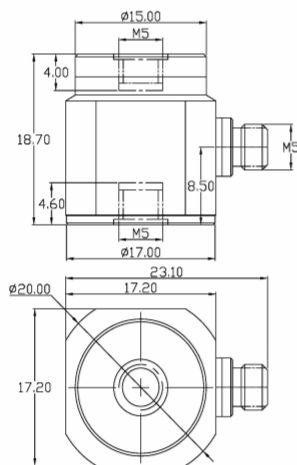


Universal Testing Type Accelerometer

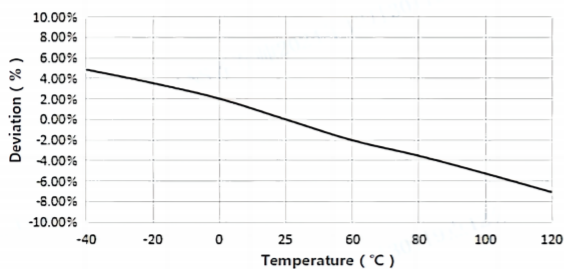
DETAILS

Model B02B04 B06B05 acceleration sensor is a standard sensor with piezoelectric ceramic shear structure, featuring wide band frequency response, low transverse sensitivity, and low thermal transient correspondence. Internal with high temperature low impedance circuit, low noise, better sensitivity temperature response and other characteristics. The housing is laser welded stainless steel with high sealing grade and strength, and the upper and lower mounting surfaces are each equipped with M5 mounting threads.

Fig_1 Dimensions of B02B04 B06B05



Fig_2 Typical Temperature Response



FEATURES

- Wide bandwidth frequency response
- Low lateral sensitivity
- Shear structure
- Good yearly stability

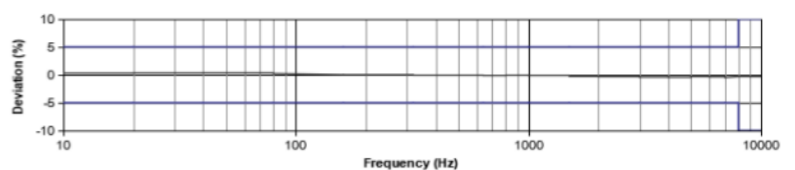
TYPICAL APPLICATIONS

- Sensor Calibration
- Standardized bench test



B02B04
B06B05

Fig_3 Typical Frequency Response



Specifications-B0XB0X

MODEL NUMBER		UNIT	B02B04	B06B05
PERFORMANCE				
Sensitivity(±10%) ¹		mV/g	10	100
		mV/(m/s²)	1	10
Measurement Range		g	±500	±50
Broadband Resolution ²		g rms	0.001	0.0001
Non-Linearity ³		%	1	
Frequency Range	± 2%	Hz	1-8k	1-8k
	± 5%		0.5-10k	0.5-10k
Resonance Frequency ²		Hz	≥50k	≥40k
Discharge Time Constant ²		s	≤1	
Transverse Sensitivity		%	≤2	
ELECTRICAL				
Excitation Voltage		VDC	20-30	
Constant Current Excitation		mA	2-20	
Output Impedance		Ω	≤100	
Output Bias Voltage		V	8-12	
Electrical Isolation		Ω	-	
Spectral Noise ²	10Hz	μg/√Hz	60	6
	100Hz		24	2.4
	1000Hz		16	1.6
ENVIRONMENTAL				
Sinusoidal Vibration Limit ⁴		g rms	3000	400
Shock Limit ⁴		g pk	8000	1000
Temperature Range		°C	-50~120	
		°F	-58~248	
Temperature Response ²		%/°C	-0.07	
PHYSICAL				
Sealing		-	Laser welding IP68	
Sensing Element		-	Piezoelectric ceramics	
Housing Material		-	Stainless steel	
Size	mm		17.2×17.2×18.7	
	in		0.677×0.677×0.736	
Electrical Connector		-	M5 Side (Opt. 10-32)	
Mounting Thread		-	M5 (Opt. 10-32)	
Weight ²	g		31.5	34
	oz		1.111	1.199
TEDS Optional ⁵		-	No	

Additional Information

Note:

1. @ 160Hz, 1g
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

BXXB01

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

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

COMPLIANCE WITH STANDARDS



LNS Intelligent Technology Co., Ltd

NO.3 Building
Qilu High-Tech District, Qihe,Dezhou
Shandong Province, China 251100
+86-534-2150417

International:

9620 NE Tanasbourne Dr Ste 300
Hillsboro, OR, USA 97124
+1-503-208-5512
info@lnsdynamics.com