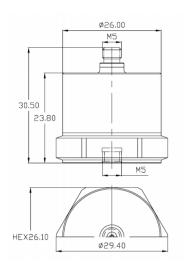


Large Sensitivity Accelerometer

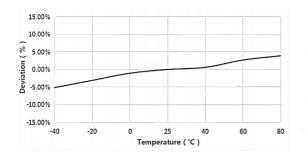
DETAILS

B1XA0X single-axis acceleration sensor, using piezoelectric ceramic shear structure, with a broadband frequency response, small size and high sensitivity, high-quality piezoelectric ceramics with long-term stability to ensure accurate measurement. The internal years circuit is characterized by low noise and high resolution over a wide frequency band. The housing is laser welded stainless steel with high sealing grade and strength, and is equipped with M5 mounting threads at the bottom.

Fig_1 Dimensions of B1XA0X



Fig_2 Typical Temperature Response



FEATURES

- ·Low noise
- · High sensitivity
- ·Small size and light weight
- · Broadband response

TYPICAL APPLICATIONS

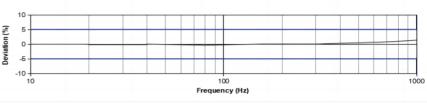
- ·Low frequency measurement
- ·Structural testing of bridge buildings

.



DIVAUY

Fig_3 Typical Frequency Response





Specifications-B1XA0X

MODEL NUMBER		UNIT	B11A00	B11A03	B12A00	B13A00	B14A00
PERFORMA	NCE						
Sensitivity ¹		mV/g	5000	2000	10000	20000	50000
		mV/(m/s²)	500	200	1000	2000	5000
Measurement Range		g	±1	±2.5	±0.5	±0.25	±0.1
Broadband Resolution ²		g rms	0.000004	0.000002	0.000006	0.000005	0.00003
Non-Linearity ³		%	1				
Frequency Range	± 5%	- Hz	0.5-1k	0.5-1k	0.5-1k	0.5-1k	0.5-1k
	±10%		0.3-1.5k	0.3-1.5k	0.3-1.5k	0.3-1.5k	0.3-1.5k
Resonance Frequency ²		Hz	≥8k	≥8k	≥8k	≥8k	≥8k
Discharge Time Constant ²		S	≥10				
Transverse Sensitivity		%	≤5				
ELECTRICA	L						
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			0.6	0.5	0.16	0.45	0.9
		µg/√Hz	0.08	0.07	0.12	0.3	0.75
			0.03	0.02	0.05	0.15	0.35
ENVIRONM	ENTAL						
Sinusoidal Vibration Limit ⁴		g	80	80	80	4	40
Shock Limit ⁴		g	200	200	200	10	100
Temperature Range		°C	-40~120	-40~80	-40~120	-40~80	
		°F	-40~248	-40~176	-40~248	-40~176	
Temperature Response ²		%/°C	0.1				
PHYSICAL							
Sealing		-	Laser welding IP68				
Sensing Element		-	Piezoelectric ceramics				
Housing Material		-	Stainless steel				
Size		mm	HEX 26.1×32.5				
		in	HEX 1.028×1.280				
Electrical Connector		-	M5 Top (Opt. 10-32)				
Mounting Thread		-	M5 (Opt. 10-32)				
Weight ²		g	132	132	132	132	132
		OZ	4.656	4.656	4.656	4.656	4.656
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
- References the mechanical structure of the sensor not being damaged in a non powered state, rather than in a working state
 Some products may have changes in size after adding TEDS

B1XA0X

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