

Universal Testing Type Accelerometer

DETAILS

Model C02B01 C04B01 charge single-axis acceleration sensor, using piezoelectric ceramic shear structure, with a wide band frequency response, low sensitivity temperature response characteristics, high-quality piezoelectric ceramics with long-term stability can ensure many years of accurate measurement. The housing is laser welded stainless steel for high sealing grade and strength, with M5 mounting threads on the bottom.

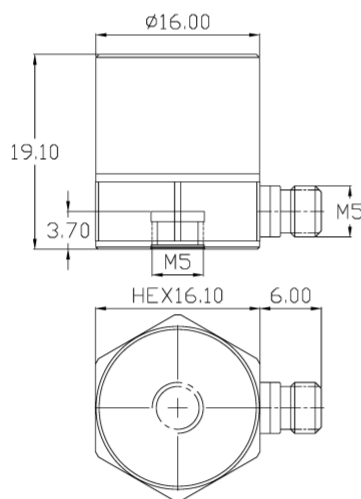
FEATURES

- Charge-type Universal Acceleration Sensor
- Standard series with multiple range options
- Shear structure
- Broadband response

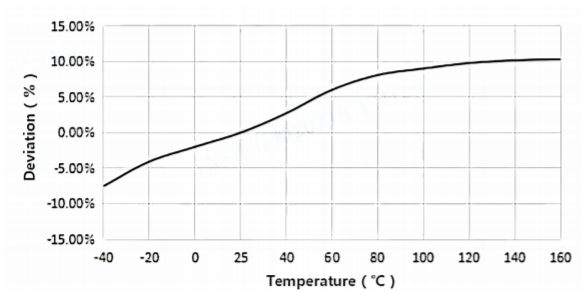
TYPICAL APPLICATIONS

- Vibration control
- General vibration monitoring

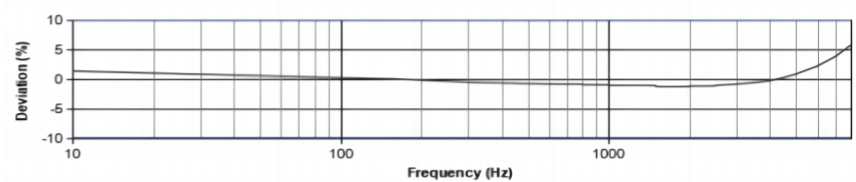
Fig_1 Dimensions of C02B01 C04B01



Fig_2 Typical Temperature Response



Fig_3 Typical Frequency Response



Specifications-CXXB01

MODEL NUMBER		UNIT	C02B01	C04B01
PERFORMANCE				
Sensitivity ¹		pC/g	10	30
		pC/(m/s²)	1	3
Measurement Range		g	±1500	±1000
Non-Linearity ³		%	1	
Frequency Range	± 5%	Hz	-	-
	±10%		0.5-8k	0.5-8k
Resonance Frequency ²		Hz	≥30k	≥25k
Discharge Time Constant ²		s	-	
Transverse Sensitivity		%	≤5	
ELECTRICAL				
Capacitance		PF	800	780
Resistance		Ω	≥1×10 ¹¹	≥1×10 ¹¹
Electrical Isolation		Ω	-	-
ENVIRONMENTAL				
Sinusoidal Vibration Limit ⁴		g	3000	2000
Shock Limit ⁴		g	5000	2500
Temperature Range		°C	-40~160	
		°F	-40~320	
Temperature Response ²		%/°C	0.08	
PHYSICAL				
Sealing		-	Laser welding IP68	
Sensing Element		-	Piezoelectric ceramics	
Housing Material		-	Stainless steel	
Size	mm	HEX 16.1×19.1		HEX 16.1×19.1
	in	HEX 0.634×0.752		HEX 0.634×0.752
Electrical Connector		-	M5 Side (Opt. 10-32)	
Mounting Thread		-	M5 (Opt. 10-32)	
Weight ²	g	25		23.6
	oz	0.882		0.832

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

CXXB01

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

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

COMPLIANCE WITH STANDARDS



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