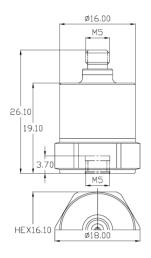


Universal Testing Type Accelerometer

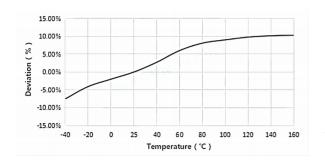
DETAILS

Model C02A01 C04A01 Charge Uniaxial Acceleration Sensor, using piezoelectric ceramic shear structure, with wide band frequency response, low sensitivity temperature response characteristics, high quality piezoelectric ceramics with long-term stability can ensure years of accurate measurement. The housing is laser welded stainless steel for high sealing grade and strength, with M5 mounting threads on the bottom.

Fig_1 Dimensions of C02A01 C04A01



Fig_2 Typical Temperature Response



FEATURES

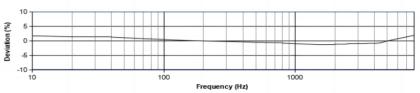
- · Charge-type Universal Acceleration Sensor
- ·Standard series with multiple range options
- · Shear structure
- · Broadband response

TYPICAL APPLICATIONS

- · Vibration control
- · General vibration monitoring



Fig_3 Typical Frequency Response





Specifications-CXXA01

MODEL NUMBER		UNIT	C02A01	C04A01
PERFORMA	NCE			
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	
ELECTRICA	L			
Capacitance		PF	800	780
Resistance		Ω	≥1×10 ¹¹	≥1×10 ¹¹
Electrical Isolation		Ω	-	-
ENVIRONMI	ENTAL			
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 16.1×26.1	
		in	HEX 0.634×1.028	
Electrical Connector		-	M5 Top (Opt. 10-32)	
Mounting Thread		-	M5 (Opt. 10-32)	
Weight ²		g	23	24.1
		OZ	0.811	0.850

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

CXXA01

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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