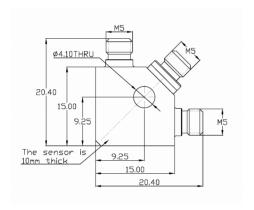


Triaxial Shock Accelerometer

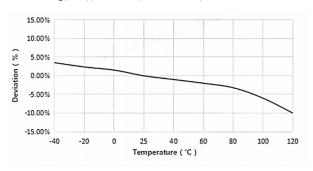
DETAILS

B00Y4X series three-axis impact acceleration sensor, the core adopts a unique shear structure, with a wide-band frequency response, high resonant frequency, effectively reducing the zero drift phenomenon. Built-in low impedance circuit, low noise, better sensitivity temperature response and other characteristics. The shell is made of titanium alloy with lower density and laser welding. Each of the three axial direction is equipped with calibration holes for easy calibration and installation, the series of products have a center through-hole can be installed 360 °, standard with insulation mounting components.

Fig_1 Dimensions of B00Y4X



Fig_2 Typical Temperature Response



FEATURES

- ·Shear structure, stable and reliable
- ·Standard series with multiple range options
- ·Through-hole installation is easy and quick

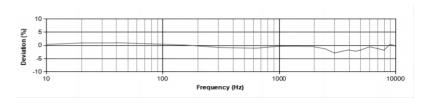
TYPICAL APPLICATIONS

- · Lightweight shock table
- · Middleweight shock table
- · Bursting test



B00YAX

Fig_3 Typical Frequency Response





Specifications-B00Y4X

MODEL NUMBER		UNIT	B00Y46	B00Y40	B00Y48
PERFORMA	NCE				
Sensitivity ¹		mV/g	0.25	0.5	1
		mV/(m/s²)	0.025	0.05	0.1
Measurement Range		g	±20000	±10000	±5000
Broadband Resolution ²		g rms	0.04	0.02	0.01
Non-Linearity ³		%	per10000g 3%	3	1
Frequency	± 5%	11-	-	-	-
Range	±10%	Hz -	10-11k	10-10k	5-10k
Resonance Frequency ²		Hz	≥70k	≥70k	≥70k
Discharge Time Constant ²		s	≤0.5		
Transverse Sensitivity		%	≤5		
ELECTRICAL	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	10Hz		6000	3000	1500
	² 100Hz	µg/√Hz	1600	800	400
	1000Hz	1	800	400	100
ENVIRONME	ENTAL				
Sinusoidal Vibration Limit ⁴		g rms	-	-	6000
Shock Limit ⁴		g pk	24000	12000	10000
Tanana watu wa Donini		°C	-50~120		
	20.00	~		-50~120	
Temperature R	ange	°F		-50~120	
Temperature R					
		°F		-58~248	
Temperature R		°F		-58~248	
Temperature Re	esponse ²	°F %/°C	P	-58~248 -0.07	
Temperature RepHYSICAL Sealing	esponse ²	°F %/°C	Р	-58~248 -0.07 Laser welding IP68	
Temperature RephySICAL Sealing Sensing Eleme Housing Materia	esponse ²	°F %/°C	Р	-58~248 -0.07 Laser welding IP68 'iezoelectric ceramics	
Temperature RepHYSICAL Sealing Sensing Eleme	esponse ²	°F %/°C	P	-58~248 -0.07 Laser welding IP68 riezoelectric ceramics Titanium Alloy	
Temperature RephySICAL Sealing Sensing Eleme Housing Materia	esponse ² nt	°F %/°C mm	P	-58~248 -0.07 Laser welding IP68 tiezoelectric ceramics Titanium Alloy 15×15×10	
Temperature RepHYSICAL Sealing Sensing Eleme Housing Materia	esponse ² nt ial	°F %/°C mm in	P	-58~248 -0.07 Laser welding IP68 Tiezoelectric ceramics Titanium Alloy 15×15×10 0.591×0.591×0.394	
Temperature Rephysical Sealing Sensing Eleme Housing Materi Size Electrical Conn	esponse ² nt ial	°F %/°C mm in	P	-58~248 -0.07 Laser welding IP68 tiezoelectric ceramics Titanium Alloy 15×15×10 0.591×0.591×0.394 M5×3 (Opt. 10-32)	8.5

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 powerd state, rather than in a working state
 Some products may have
- changes in size after adding TEDS

B00Y4X

Supplied Accessories:

- Product Verification Report
- Install Screws

OPTIONAL VERSIONS

-A: 10-32 Output Connector

COMPLIANCE WITH STANDARDS









LNS Intelligent Technology Co., Ltd NO.3 Building Qilu High-Tech District, Qhe,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