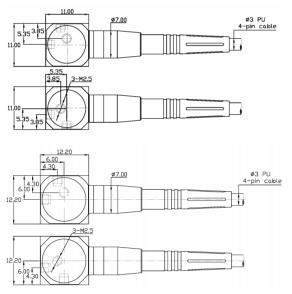


Watertight Type Accelerometer

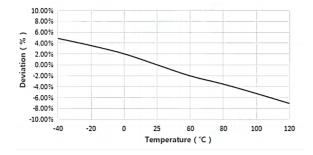
DETAILS

B02Y77 B06Y76 B06Y77 type three-axis watertight acceleration sensor, using piezoelectric ceramic shear structure, with a band frequency high-quality wide response, piezoelectric ceramics with long-term stability can ensure years of accurate measurement. Built-in low impedance circuit, low noise, sensitivity temperature response other characteristics. One-piece waterproof polyurethane cable, unique waterproof technology, multi-layer protection measures. pressure resistance up to 2MPa, the shell is made of titanium alloy with lower density, laser welding. Each of the three axial direction is equipped with calibration holes for easy calibration and installation, with insulation mounting kit as standard.

Fig_1 Dimensions of B02Y77 B06Y76 B06Y77



Fig_2 Typical Temperature Response



FEATURES

- ·Integrated Microminiature Built-in
- · One-point multi-axial measurement
- ·Shear structure, stable and reliable
- · Insulated mounting base as standard

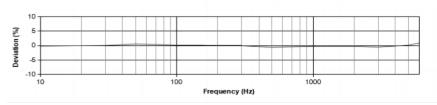
TYPICAL APPLICATIONS

· Underwater vibration testing



B02Y77 B06Y76 B06Y77

Fig_3 Typical Frequency Response





Specifications-B0XY7X

MODEL NUMBER		UNIT	B02Y77	B06Y76	B06Y77
PERFORMA	NCE				
Sensitivity ¹		mV/g	10(±10%)	100	100
		mV/(m/s²)	1	10	10
Measurement Range		g	±500	±50	±50
Broadband Resolution ²		g rms	0.001	0.0001	0.0001
Non-Linearity ³		%	1		
Frequency Range	± 5%	11-	1-9k	1-6k	1-7k
	±10%	Hz -	0.5-10k	0.5-8k	0.5-9k
Resonance Frequency ²		Hz	≥70k	≥22k	≥38k
Discharge Time Constant ²		s	\{		
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		150	15	15
	² 100Hz	µg/√Hz	40	4	4
	1000Hz	1	20	2	2
ENVIRONMI	ENTAL				
Sinusoidal Vibration Limit ⁴		g rms	2200	400	400
Shock Limit ⁴		g pk	5000	1000	1000
Tanana watu wa Donini			-50~120		
Tananavatura D		°C		-50~120	
Temperature R	ange	°C °F		-50~120 -58~248	
Temperature R			-0.07		-0.07
		°F	-0.07	-58~248	-0.07
Temperature R		°F	-0.07	-58~248	-0.07
Temperature R PHYSICAL	esponse ²	°F %/°C		-58~248 -0.1	-0.07
Temperature R PHYSICAL Sealing	esponse ²	°F %/°C		-58~248 -0.1 Laser welding IP68	-0.07
Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater	esponse ²	°F %/°C		-58~248 -0.1 Laser welding IP68 Piezoelectric ceramics	
Temperature R PHYSICAL Sealing Sensing Eleme	esponse ²	°F %/°C		-58~248 -0.1 Laser welding IP68 Piezoelectric ceramics Titanium Alloy	ube
Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater	esponse ² nt	°F %/°C mm	11 Cube 0.433 Cube	-58~248 -0.1 Laser welding IP68 Piezoelectric ceramics Titanium Alloy 12.2 C	ube Cube
Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater Size	esponse ² nt ial	°F %/°C mm in	11 Cube 0.433 Cube	-58~248 -0.1 Laser welding IP68 Piezoelectric ceramics Titanium Alloy 12.2 C 0.480 (ube Cube
Temperature R PHYSICAL Sealing Sensing Eleme Housing Mater Size Electrical Conn	esponse ² nt ial	°F %/°C mm in -	11 Cube 0.433 Cube	-58~248 -0.1 Laser welding IP68 Piezoelectric ceramics Titanium Alloy 12.2 C 0.480 c nnected cable 4-pin Sid	ube Cube

Additional Information

Note:

- 1. @ 160Hz, 24VDC, 4mA conditions
- 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

B0XY7X

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