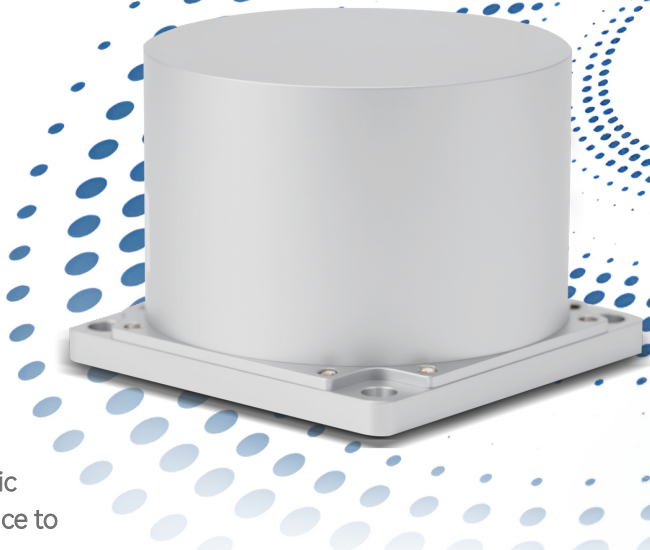


BSD50

FIBER OPTIC GYROSCOPE



- Digital closed-loop mode, bias stability: 0.05°/h ~ 0.5°/h
- Small size: ϕ 50mm×37.7mm
Light weight: \leq 130g
- High precision, simple structure, wide dynamic range, short start-up time and strong resistance to vibration and shock.

APPLICATIONS



Small IMU, INS , Seeker.

Servo tracking , Electro-optical pod , UAV

PERFORMANCE

Parameters	BSD50A	BSD50B	BSD50C
Input Range	± 500 °/s	± 500 °/s	± 500 °/s
Bias Stability	≤ 0.05 °/h	≤ 0.1 °/h	≤ 0.5 °/h
Bias Repeatability	≤ 0.05 °/h	≤ 0.1 °/h	≤ 0.5 °/h
Random Walk Coefficient	≤ 0.005 ° / \sqrt{h}	≤ 0.01 ° / \sqrt{h}	≤ 0.05 ° / \sqrt{h}
Scale Factor Non-linearity	≤ 50 ppm	≤ 50 ppm	≤ 100 ppm
Scaling Factor Repeatability	≤ 50 ppm	≤ 50 ppm	≤ 100 ppm
Scale Factor Asymmetry	≤ 50 ppm	≤ 50 ppm	≤ 100 ppm
Startup Time	≤ 1 s		
Bandwidth	>200 HZ		
Power Supply	± 5 V (Single power supply -5,+5 available)		
Power	≤ 2.5 W		
Operating Temperature	- 40 ~ 65 °C		
Storage temperature	- 50 ~ 80 °C		
Vibration	20 ~ 2000 Hz , 0.06 g ² /Hz		
Shock	30 g, 11ms		
Data Refresh Date	200 ~ 2000 Hz		
Baud Rate	115200 ~ 921600 bps		
Output Mode	Broadcast (default) / Triggered (customized)		
Interface	RS-422		
Connector	J30J-15TJL		
Dimensions	50×50×37.7 mm (Can be customized 50×50×25)		
Weight	130 g		