

# BSD120

## FIBER OPTIC GYROSCOPE

- Digital closed-loop mode, bias stability:  $0.003^{\circ}/h \sim 0.006^{\circ}/h$ ,
- 10s smoothin Small size:  $120mm \times 120mm \times 35mm$ , light weight:  $\leq 840g$
- High precision, simple structure, wide dynamic range, short start-up time and strong resistance to vibration and shock.

### APPLICATIONS



Ultra-precise north-seeking, ultra-high-precision inertial navigation



### PERFORMANCE

Parameters	BSD120A	BSD120B
Input Range	$\pm 500^{\circ}/s$	$\pm 500^{\circ}/s$
Bias Stability	$\leq 0.003^{\circ}/h$ (10 s)	$< 0.006^{\circ}/h$ (10 s)
Bias Repeatability	$\leq 0.003^{\circ}/h$	$\leq 0.006^{\circ}/h$
Random Walk Coefficient	$\leq 0.0003^{\circ} / \sqrt{h}$	$\leq 0.0006^{\circ} / \sqrt{h}$
Scale Factor Non-linearity	$\leq 5$ ppm	$\leq 5$ ppm
Scaling Factor Repeatability	$\leq 5$ ppm	$\leq 5$ ppm
Scale Factor Asymmetry	$\leq 5$ ppm	$\leq 5$ ppm
Startup Time	$\leq 1s$	
Bandwidth	$>200$ HZ	
Power Supply	$\pm 5V$ (Single power supply -5,+5 available)	
Power	$\leq 2.5$ W	
Operating Temperature	$-40 \sim 65^{\circ}C$	
Storage temperature	$-50 \sim 80^{\circ}C$	
Vibration	$20 \sim 500$ 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-15ZKP	
Dimensions	$120 \times 120 \times 35mm$	
Weight	840 g	