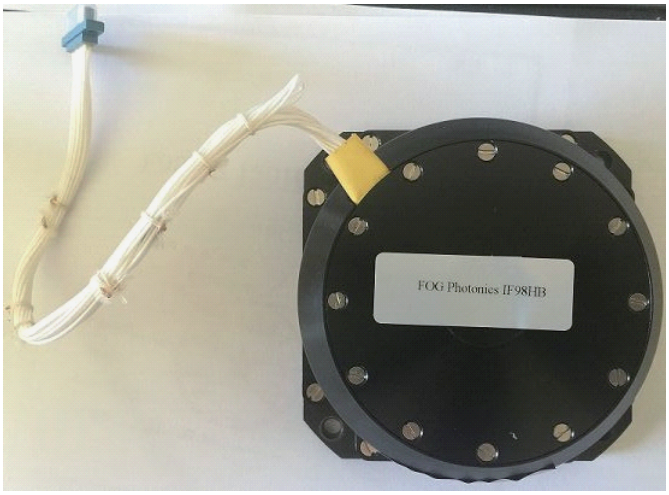
FOG600S Middle grade precious Closed-loop Fiber Optic Gyroscope

Mini Size Gyro



FOG600S (IF98HB)is one device designed with erbium-doped Fiber Optic Light Source with small size;The FOGPhotonics delivers superior precision and reliable performance at lower cost and smaller size than other comparable gyros, especially other FOGs.

The performance of gyros and systems can be optimized for specific requirements and applications on an individual basis. FOGs can be supplied as a stand alone single axis, or as a dual/ triad with common electronics. All FOGs are available with a flexible interface configuration.

Product feathures

Closed loop fiber optic gyroscope
High accuracy, low noise sensor
All "Solid State" containing no moving parts
Digital and/or Analog output Available as 1 -2-3-4 axes configuration
High resolution Low latency Lightweight package
Temperature modeled Reduced magnetic sensitivity
Provisions for extra processing capabilities
Ruggedized packaging
Great performance with harsh dynamic conditions

Applications

The FOG solutions are versatile and suitable for a wide variety of demanding applications such as:

- Navigation
- Missile and Torpedoe guidance
- Flight controls
- UUV/UAV/ Target Drones guidance and control
- Gyro compassing / target acquisition systems
- Camera/mapping
- AHRS
- Motion compensation
- EO/FUR/Radar stabilization

- Line-of-sight tracking / Precision pointing
- Smart munitions
- Gimbal control

Specifications

Parameter	Units	FOG600S
Angular Random Walk (noise)*	°/√hr	0.001
Bias stability	°/hr	≤0.02(10s,1σ) ≤0.007(100s,1σ)
Bias Repeatability (day to day)	°/hr(1σ)	0.01
Scale factor repeatability	ppm(1σ)	≤20(Full temperature)
Scale Factor Non-Linearity (max rate, 25°C)	ppm,(1σ)	≤10
Dynamic Range (Angular Rate)	°/sec	±600
Band width	HZ	>100
Dimension	mm	98x98x35
Weight	g	<550
Operation temperature	℃	-40-+71
Storage temperature	℃	-55-+85
Shock	g	20g, 11msec, sawtooth
Vibrations	g	4.2g(20-1500HZ)
Interface		RS422 Or OEM
Power supply	V	±5V
MTBF	Hours	20000
Baud Rate	Kbps	Typ 460.8kbps (User selectable 9.6 Kbps to 921.6 Kbps)
Data Rate	Hz	Typ 500Hz (User Selectable 1 to 1000 Hz)

Note:

* Random Walk determined by Allan variance method

Dimension