GS-FOG70A

Closed-loop fiber optic gyroscopes

Gran Stal Solutions Ltd.

Key Features

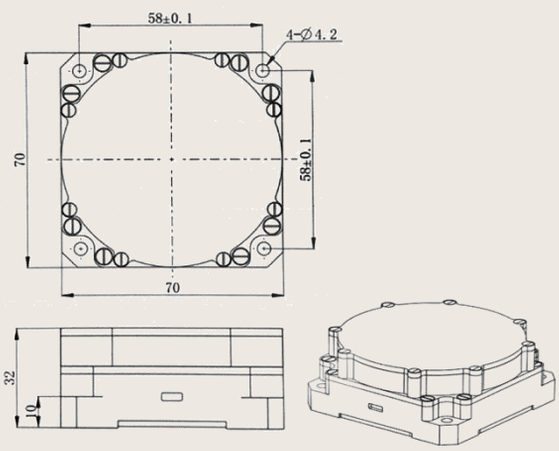
+ Small package size, high stability and more resistance to interference

+ Designed and tested to safety standards

+ ARW(Angle Random Walk) to 0.002° /h$^{0.5}$

+ Asynchronous RS-422 protocol

+ Excellent shock, vibration, and thermal performance



Compact and Innovative Package

GS-FOG70A is a complete gyro system which comprises a fiber optic sensing assembly and analog processing electronics. The series features ultra-compact lightweight design combined with super shock and vibration immunity. It has been designed from the ground up for mission critical control applications where reliability is very important. The hardware is protected from reverse polarity, overvoltage, surges, static and short circuits on all external interfaces.

Suitable for Demanding Applications

GS-FOG70A is a small, lightweight, high performance closed loop fiber optic gyro, suited for stabilization and positioning systems for such platforms as high-speed gimbals, antennas, laser pointing, high-definition cameras, and other optical and sensor systems requiring high-performance motion-sensing and control.

GS-FOG70A

FEATURES

- Closed-loop design for improved drift stability, higher linearity, and greater flexibility
- New generation FPGA electronics
- Light weight 285 grams
- Excellent vibration and shock performance
- High Cost-Efficiency than Competing Systems

Applications

- Navigational Grade Applications
- Guidance and control systems
- Aeronautics and Aviation
- Unmanned Aerial Vehical(UAV) Guidance

GYRO PERFORMANCE

Dynamic Range	± 200 °/ sec
Bias In-Run Stability	≤ 0.01 °/hr
Bias Repeatability	≤ 0.01°/hr
Scale Factor Non-linearity	≤ 30 ppm
Scale Factor Repeatability	≤ 30 ppm
Scale Factor Asymmetry	≤ 30 ppm
ARW (Angle Random Walk)	≤ 0.002 °/$h^{0.5}$
Bandwidth	≥ 150 Hz

ELECTRICAL / MECHANICAL

Initialization Time	≤ 1sec
Baud Rate	460800 bps
Dimensions	Φ70mm X 32mm
Weight	285 g / 10.01 oz
Power Consumption	≤ 3W
Input voltage	±5 V DC
Temperature	
Operating temperature	-40 °C to + 60 °C
Storage temperature	-55 °C to + 75 °C
Data Interface	Asynchronous Digital Output

China

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