

# G-F3G90: TRI-AXIS FIBER OPTIC GYROSCOPE

## ■ PRODUCT DESCRIPTION

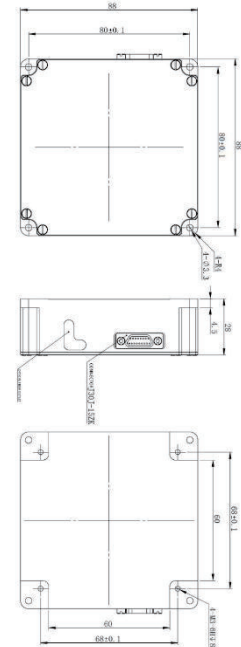


Fiber optic gyroscope, as a new type of all solid state gyroscope, has the advantages of fast start-up, wide measurement range, and high reliability. Among them, the G-F3G90 fiber optic gyroscope inertial unit is designed for the needs of medium and high precision application backgrounds, using three-axis shared technology, with low cost and stable performance; Structurally, it adopts integrated packaging of light path and circuit, with a simple structure and convenient installation. It can be applied to navigation guidance, attitude measurement and control systems of small missiles and guided bombs.

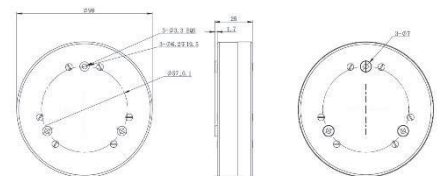
## ■ PRODUCT MAIN SPECIFICATION

	U-F3G90-A	U-F3G90-B	U-F3G90-C	Unit
Startup time	5	5	5	s
Zero position	≤0.30	≤0.30	≤0.30	° /hr
Zero bias stability (Under certain temperature)	≤0.015 (10s) ≤0.008 (100s)	≤0.01 (10s) ≤0.005(100s)	≤0.005 (10s) ≤0.003(100s)	° /hr
Zero bias stability (Under changed temperature)	≤0.06	≤0.05	≤0.04	° /hr (1 °C/min,100s)
Zero bias repeatability	≤0.003	≤0.003	≤0.003	° /hr
Random walk coefficient	≤0.002	≤0.001	≤0.0005	° /hr √
Zero bias magnetic sensitivity	≤0.005			° /hr/Gs
The Scale factor of nonlinearity	≤10			ppm
The Scale factor of asymmetry	≤10			ppm
The Scale factor of repeatability	≤10			
Threshold	≤0.01			° /hr
Bandwidth	≥200			Hz
Operating temperature	-45 ~ +65			°C
Storage temperature	-55 ~ +80			°C
Dynamic range	±300			° /s
Supply of voltage	±5			V
Power consumption (steady state)	≤5.5			W
Power consumption (Full temperature steady state)	≤10			W
Starting instantaneous current	<2			A
Net weight of product	<1300			g

## ■ PRODUCT DIMENSION



CIRCUIT BOX SIZE: 88\*88\*28MM



SENSING HEAD SIZE: Φ90MM

## ■ PRODUCT APPLICATION

- Crane bin and guide head
- Petroleum geological logging
- Underwater navigation
- North finding instrument
- Navigation GPS
- Marine survey
- Ship navigation attitude measurement
- Angle control of various construction machinery
- Stabilization platform equipment
- Unmanned aerial vehicles (UAV)
- Satellite solar antenna positioning