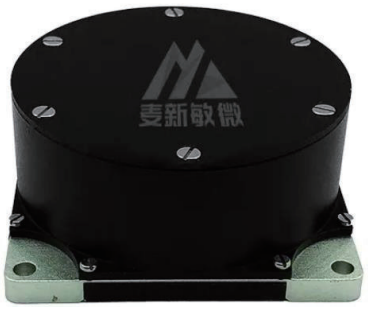
# G-F70ZKH: MEDIUM AND HIGH PRECISION FIBER OPTIC GYROSCOPE



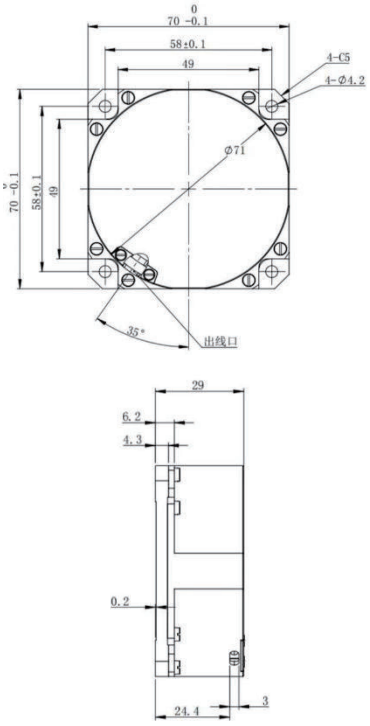

## PRODUCT DESCRIPTION

As a new type of all-solid state gyro, fiber optic gyroscope has the advantages of fast start, wide measurement range and high reliability. G-F70ZKH uniaxial medium and high precision fiber optic gyroscope can be applied to the application requirements of high precision inertial navigation system, such as land positioning orientation, vehicle north finding instrument, airborne navigation posture and Marine gyro. The specification is only applicable to G-F70ZKH type products, including performance indicators, technical conditions, external dimensions and installation and use. Among them, the technical conditions include the environmental range, electrical performance and physical characteristics of the product.

## PRODUCT MAIN SPECIFICATION

| | | |
|---|---|---|
| **Zero bias stability** | ≤0.05 °/*hr (1σ,10s)* | 2h continuous testing, 10s smooth results |
| **Stabilization time** | ＜100 *s* | |
| **Zero bias repeatability** | ≤0.05 °/*hr* (1σ) | 6 test data calculation results |
| **Random walk coefficient** | ≤0.005 °/$\sqrt{hr}$ | |
| **The Scale factor of Nonlinearity** | ≤20 *ppm* (1σ) | normal atmospheric temperature |
| **The Scale factor of Repeatability** | ≤20 *ppm* (1σ) | normal atmospheric temperature |
| **Full-temperature scale factor repeatability** | ≤300 *ppm* (1σ) | -40℃～+60℃ |
| **Dynamic range** | ±500°/*s* | |
| **Magnetic field sensitivity** | ≤0.05 °/*hr/Gs* | |
| **Working temperature** | -40℃～+70℃ | |
| **Storage temperature** | -50℃～+70℃ | |
| **Vibration conditions** | 4.2*g*,20*Hz*～2000*Hz* | Sweep frequency vibration has no resonance |

## PRODUCT DIMENSION




SIZE: Φ70*29MM

## PRODUCT APPLICATION

- Fiber optic gyroscope system
- 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