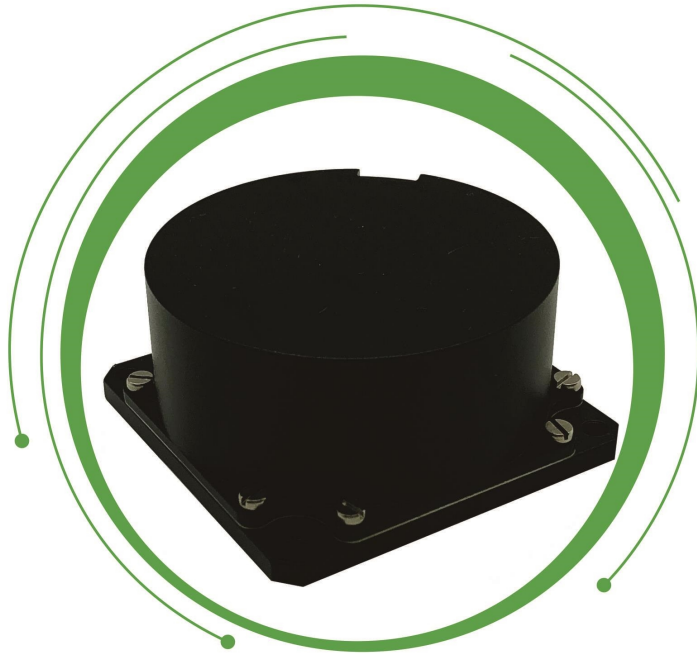


F60 type Medium and high precision Fiber optic gyroscope



Introduction

The fiber optic gyroscope, as a new type of all-solid-state gyroscope, has the advantages of fast start-up, wide measuring range and high reliability. F60 single-axis medium-high precision fiber optic gyroscope can be applied to the application requirements of medium-high precision inertial guidance systems such as land-based positioning and orientation, vehicle-mounted north finder, airborne heading and marine gyroscope compass.

Application Scope

This manual is only applicable to F60 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.

Main Parameters

Table 1 Main performance indicators of the product

	A type	B type	C type
zero stability $^{\circ}/\text{hr}(1\sigma, 10\text{s})$	≤ 0.20	≤ 0.10	≤ 0.05
Stability time s	<5	<5	<5
zero drift repeatability $^{\circ}/\text{hr}(1\sigma)$	≤ 0.20	≤ 0.10	≤ 0.05
full temp zero drift repeatability $^{\circ}/\text{hr}$	≤ 1	≤ 0.5	≤ 0.3
random walk coefficient $^{\circ}/\sqrt{\text{hr}}$	≤ 0.02	≤ 0.01	≤ 0.005
scale factor non-linearity degree ppm(1σ)	≤ 100	≤ 50	≤ 50
scale factor repeatability ppm(1σ)	≤ 100	≤ 50	≤ 50
dynamic range	$\pm 500^{\circ}/\text{s}$		
Magnetic field sensitivity	$\leq 0.10^{\circ}/\text{hr}/\text{Gs}$		
Operating temperature	$-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$		
Storage temperature	$-50^{\circ}\text{C} \sim +70^{\circ}\text{C}$		
Vibration condition	4.2g, 20Hz ~ 2000Hz		

External Dimension Drawing

