

RION-FOG500 Optic gyroscope

RION-FOG500

impulse optic gyro is fast rotation sensor based on Sagnac effect. It is combined by fiber loop and electronic processor, including light source, coupler, polarizer, phase modulator and fiber loop, etc. Its main features include good insulativity, capable of eliminating magnetic saturation, anti-electromagnetic, high precision, good linearity, small size, light, high reliability, and convenient installation. It is widely used in all kinds of inertial measurement fields.

Applications

- optical instrument
- photographic instrument
- platform stability
- antenna stability
- navigator
- inertial measurement

Features

- eliminate magnet saturation
- good linearity
- high accuracy
- small size
- light weight
- anti-electromagnetic
- insulativity
- high reliability
- convenient installation



Specification

Working performance	Measuring range	$\pm 170 \text{ deg/s}$
	Zero drift	$\pm 0.5 \text{ deg/h}$
	Full temp. drift	$\pm 2 \text{ deg/h}$
	Zero drift stability	$\leq 0.07 \text{ deg/h}$
	Zero drift repeatability	$\leq 0.07 \text{ deg/h}$
	Scale factor nonlinearity (0.1 deg as reference value)	$\leq 500 \text{ ppm}$
	Random vibration zero drift change	1 deg/h
Electrical Performance	Power	$\pm 5 \text{ V}, \leq 2.5 \text{ W}$
	Ripple	$\leq 10 \text{ mV}$
physical property	Working temp.	$-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$
	Size	$98 \times 98 \times 35.5 \text{ mm}$
	Weight	$450 \pm 10 \text{ g}$