

AgileLight-40C Series

Three-axis integrated fibre-optic gyro

Technical Manual

V4.0



Introduction

AgileLight-40C is a medium-precision three-axis fibre-optic gyro, inheriting the advantages of all-digital closed-loop control and micro-signal correlation detection technology, and through the miniaturisation of the optical circuit components, it greatly reduces the volume, the power and size are comparable to those of the mainstream three-axis MEMS gyros in the market today, and maintains the advantages of the fibre-optic gyro's good linearity, good adaptability to the temperature and environment, and it adopts the advantages of +5V power supply and RS422 digital output. The +5V power supply and RS422 digital output are used.

Applications

It can be applied to airborne navigation, unmanned aircraft, unmanned ship, unmanned vehicle, positioning and orientation, ship, aviation, infrared pod servo guidance, as well as orbital detection, attitude control and other civil fields.

Specifications



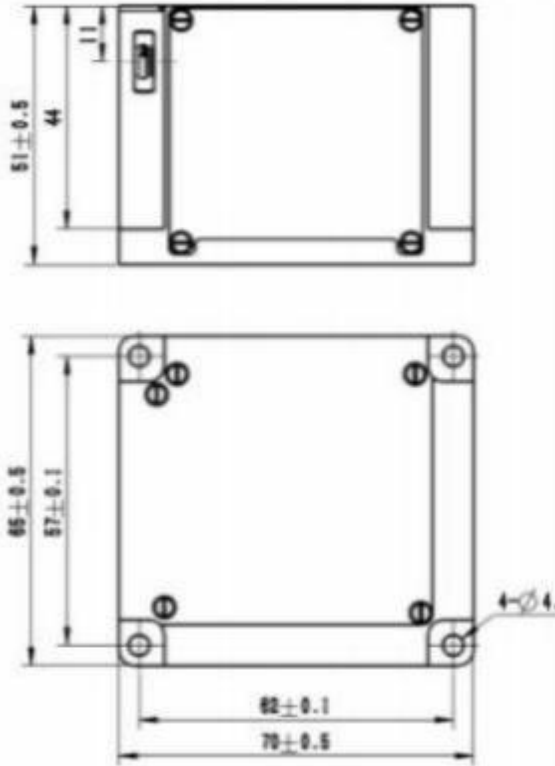
Performance Specifications

Technical Parameter	Angular velocity measurement range	$\pm 890^\circ/s$
	Zero-bias stability (10s, 1σ , Room temperature)	$\leq 0.3^\circ/h$
	Resolution	$\leq 0.15^\circ/h$
	Scale factor relative error	$\leq 200\text{ppm}$
	3dB Dynamic Response Frequency Band	$\geq 1\text{kHz}$
	Withstand maximum vibration	18g
	Withstand maximum impact	100g,6ms,half sine wave
	Work temperature	-45 ~ +70°C
	Storage temperature	-55 ~ +85°C
	Physical	Volumetric
Weight		$\leq 350\text{g}$
Mounting dimensions		4- $\phi 4.2\text{mm}$
Power consumption		$\leq 6\text{W}$
Supply voltage		+5VDC
Electrical interface		RS 422 (customisable)



Package size

Product Size: L65×W70×H51 (mm)



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