BS-FC095-370-A1ES Micro-FOG Technical

Manual

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1 Product Introduction

1.1 Principal and Characteristics

BS-FC095-370-A1ES micro-fiber-optic gyro (FOG) is an integrated angular rate sensor. It is based on the Sagnac effect and incorporates a variety of micro- and nano-fiber optic devices to realize the detection of the phase difference generated by two beams of light propagating in opposite directions.

This product features a simple structure, no moving parts, no wear parts, fast start-up, small size, and lightweight. It can be applied to motion measurement and control.

1.2 Specifications

No.	Attribute	Value
1	Input Range (°/s)	±370
2	Scale Factor (mv/º/s)	11±1.5
3	Bias Stability (10s, 1o, °/h)	≤1.5
6	Angular random work ($^{\vee}h$)	≤0.05
7	Start-up time (s)	≤1
8	Bandwidth (-3dB) (Hz)	≥450
9	Operating Temperature (°C)	-40~+70
	Storage Temperature (°C)	-55~+85
10	Input Voltage (V)	5 <u>+</u> 0.15
11	Power consumption (W)	≤1
12	Dimension (mm)	$60 \times 35 \times 25.5$
13	Weight (g)	≤70

Table 1 Specification

2 Interface

2.1 Mounting interface

The bottom side is the mounting surface with four M3 threads for mechanical connection to the outside.



Fig. 2 Mounting dimensions

2.2 Electrical interface

Connection method: solder pads as shown below



Fig.3 Electrical connection

No.	Definition
1	TS (T= (TS-750) /10+25)
2	5V
3	AGND
4	OUT
5	GND






