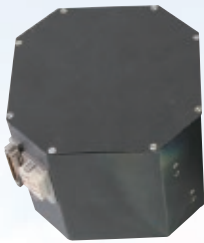


# RING LASER GYROSCOPE

BEIJING AUTOMATION CONTROL EQUIPMENT INSTITUTE



• TRLG-09A



• SRLG-05C

## Overview of product

As one of the earliest manufacturers who carries out engineering application of ring laser gyro in China, we are the only producer who develops three-axis ring laser gyroscope and performs batch production. Our technical level is in leading position. We are capable to perform design and development of new products, trial production for customized product, and batch production, and can produce multiple series products such as three-axis mechanically dithered laser gyro and single-axis mechanically dithered ring laser gyro with precision coverage of  $0.03^{\circ}/h-0.001^{\circ}/h$ .

## Technical characteristics

Three-axis ring laser gyro features small volume, light weight, low power consumption, three-axial integrative machining, input shaft with long-time high stability, no special mating circuit and high- voltage power supply, and convenient operation.

## Field of application

Inertial navigation and guidance, ship INS, UAV, land location/orientation, north seeker, etc.

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TYPE	TRLG-09A	SRLG-05C
<b>Performance</b>		
Bias stability[deg/h, 1 $\sigma$ ]	0.003 to 0.01	0.001 to 0.01
Bias repeatability[deg/h, 1 $\sigma$ ]	$\leq 0.005$	$\leq 0.002$
Random walk[deg/sqrt(h)]	$\leq 0.0008$	$\leq 0.0005$
Scale factor non-linearity (ppm)	$\leq 5$	$\leq 2$
Scale factor repeatability (ppm)	$\leq 1$	$\leq 1$
Axis	3	1
<b>Operating range</b>		
Settling time (s)	$\leq 5$	$\leq 5$
Measurement range (deg/s)	-500 to +500	-500 to +500
Operating temperature (°C)	-40 to +70	-40 to +70
Storage temperature (°C)	-55 to +80	-55 to +80
Vibration operating (g)(RMS)	7.2	7.2
Shock (g)	18(11ms), half sine	24(11ms), half sine
<b>Electrical</b>		
Power supply[VDC]	$\pm 5$ , +15	$\pm 5$ , +15
Power consumption (W)	$\leq 10$	$\leq 5$
<b>Physical</b>		
Dimensions (mm)	gyro: 113X113X123 circuit: 90X70X40	140X120X56
Weight (grams)	2500	2000

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