

ER-DFOG-60 Low Cost Two Axis Fiber Optic Gyroscope

ER-DFOG-60 Low Cost Two Axis Fiber Optic Gyroscope is an important angular rate sensor, which has the characteristics of long life, fast start up, high precision, lower power consumption, wide dynamic range and so on. The FOG gyros can determine the orientation of moving objects. As an inertial navigation instrument, it has been widely used in platform stability, inertial navigation system (INS), unmanned vehicle and servo tracking.

Application

Servo tracking、 medium precision INS、 platform stability

High-speed rail track detection、 photoelectric pod

Satellite communications

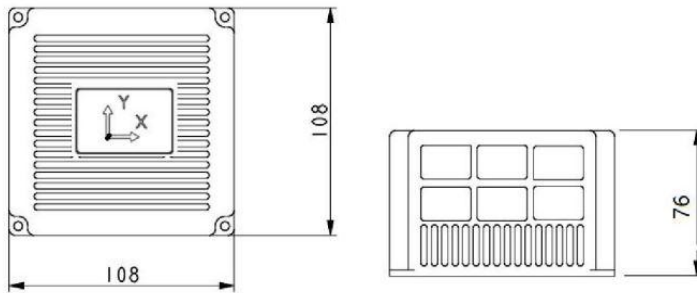
On-the-Move (SOTM)

Unmanned Vehicle

Specifications

Item	Unit	ER-DFOG-60A	ER-D-FOG60B	ER-D-FOG60C	ER-D-FOG60D
Measuring range	°/s	-600~600	-600~600	-600~600	-600~600
Bias stability	°/h	≤0.1	≤0.3	≤0.5	≤1.0
Bias repeatability	°/h	≤0.1	≤0.3	≤0.5	≤1.0
Random walk coefficient	°/√h	≤0.01	≤0.03	≤0.05	≤0.1
Scale factor non-linearity	ppm	≤ 50	≤ 60	≤70	≤100
Scale factor repeatability	ppm	≤ 50	≤ 60	≤70	≤ 100
Scale factor symmetry	ppm	≤ 50	≤ 60	≤ 70	≤100
Start Time	s	≤ 1	≤ 1	≤ 1	≤ 1

Bandwidth	Hz	>200	>200	>200	>200
Power supply	V	-5~+5	-5~+5	-5~+5	-5~+5
Power	W	≤ 15	≤ 15	≤ 15	≤ 15
Operating temperature	°C	-40~+65	-40~+65	-40~+65	-40~+65
Storage temperature	°C	-45~+85	-45~+85	-45~+85	-45~+85
Vibration	/	2g (RMS), 20Hz~2000Hz			
Shock	/	40g, 1 ms	40g, 1 ms	40g, 1 ms	40g, 1 ms
Output method	/	RS-422	RS-422	RS-422	RS-422
Connector	/	J30J-15TJL	J30J-15TJL	J30J-15TJL	J30J-15TJL



Note: Unfilled dimensional tolerances are performed in accordance with GB/T1804-2000 Class C.

Figure 1 Dimensions of ER-DFOG-60A, B, C, and D double-axis fiber optic gyroscopes