JIOPTICS

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Fiber Optic Gyroscope Fog High Precision Inclination Instrument

JIO-FOG001 is a triaxial accelerometer based on micromechanical technology.
The speedometer uses advanced signal processing algorithm technology to obtain high precision inclination information under complex working conditions. This product is based on the performance of the servo clinometer, using 4~20mA simulation output and digital output in two forms. Welcome to buy Fiber Optic Gyroscope Fog High Precision Inclination Instrument from us.

Fiber Optic Gyroscope Fog High Precision Inclination Instrument Features

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JIOPTICS installation of fiber optic gyroscope to provide ease of integration flexibility, and our developers toolkit to rapid prototyping, not only meet the specification requirements, also provide high-quality performance meet the demand of end users.

Our services

JIOPTICS is a professional and efficient team. Provide OEM/ODM services for you, contact us to customize your exclusive fiber optical gyroscope

Application scenarios

-The structure alignment (rolling machine, AC generator, etc.)
-A safety detection (crane, maritime platform)
-D horizontal measurement (road, railway track)
-Re angle measurement
-The positioning of shooting platform, radar antenna

Tel:+86-13570832601 **Email:**sales@jioptics.com

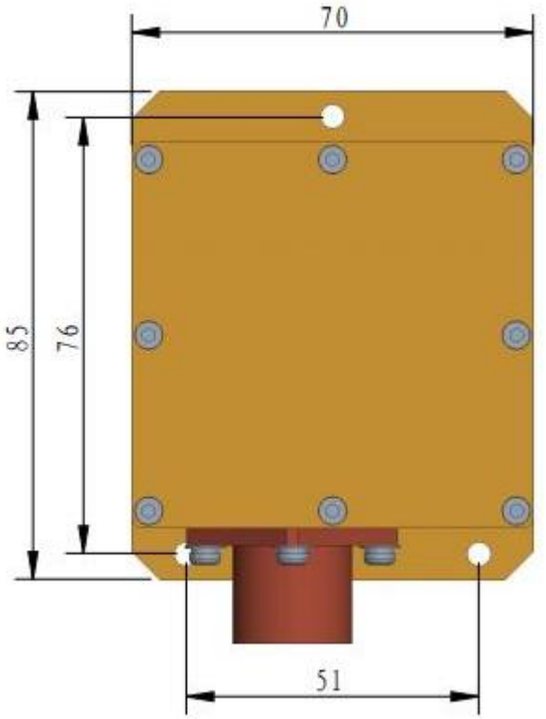
Product Features

-The performance of the servo inclination instrument, the inclination accuracy is better than 0.01 °
-Puramental range: -40 ~ 65 ℃
-The high anti -impact and vibration resistance capacity, vibration environmental performance is not disordered
-In IP65 sealed shell, suitable for harsh environments
-The interface type is rich, supporting standard interfaces such as RS422, current/voltage output
-He high reliability

Electrical characteristics

-Delectrical power supply: 24V DC (typical value)
-Reze power: 1.5W (maximum value)
-The ripple: 100mv (peak value)

Mechanical Dimensions



Technical parameters

Environmental parameters

Operating temperature	-40 ℃ to +80 ℃
Storage temperature	-55 ℃ to +85 ℃
Network	NF EN 61326 (Industry)
Shock	5g/20Hz to 500Hz
Impact	200g/6ms
Protection	IP 65
Universal parameter	
Power supply	240V DC, 35mA (max) (4-20mA version: 55mA (max)
Power consumption	60mA (maximum value) (voltage output) / 100mA (maximum value) (current output)
Bandwidth	2 ~ 10Hz determines according to needs
Output	±5V or 4-20mA or RS422 serial digital output
Nonlinear error	<0.1% FS
Non-repeatability and hysteresis	<0.05% FS
Cross Axis Sensitivity	<0.005g/g
Deviation	0.1% FS
Electronic noise	<2mVrms (0-1kHz)
Zero temperature drift	0.01% FS/℃
Sensitivity temperature drift	0.01% signal/℃

Selection guide			
Range	Bandwidth	Product reference voltage output	Product reference current output
±3°	4Hz	690 041 489	690 041 485
±5.75°	4Hz	690 041 419	690 041 415
±14.5°	5Hz	690 041 429	690 041 425
±30°	6Hz	690 041 439	690 041 435
±45°	8Hz	690 041 449	690 041 435
±90°	12Hz	690 041 459	690 041 455
Choose custom			
Special bandwidth, special range and output signal, zero offset (unipolar output), linearity < 0.05% FS Integrated temperature sensor			