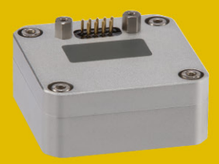
Fiber Optic Gyroscope Products



Single Axis Gyroscope
[FG 150]



Inertial Measurement Unit
[FI 200C]



Gyrocompass









FIBERPRO

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LEA-FI 200P-02

FIBERPRO

Inertial Measurement Unit (IMU)

FI 200P

Advanced Solution of Stabilization and Flight Control

www.fiberpro.com

Inertial Measurement Unit (IMU)

FIBERPRO's FI 200P integrates three fiber optic gyros with three high-accuracy accelerometers and state-of-the art electronics in a compact and lightweight package. FI 200P provides digital data of incremental velocity and angular rate through Synchronous Data Link Control (SDLC) or Universal Asynchronous Receiver Transmitter (UART).

Applications

Unmanned Aerial Vehicle
Camera / Radar Stabilization
Guidance / Flight Control
Antenna Stabilization
Motion Compensation
Attitude and Heading
Reference System (AHRS)

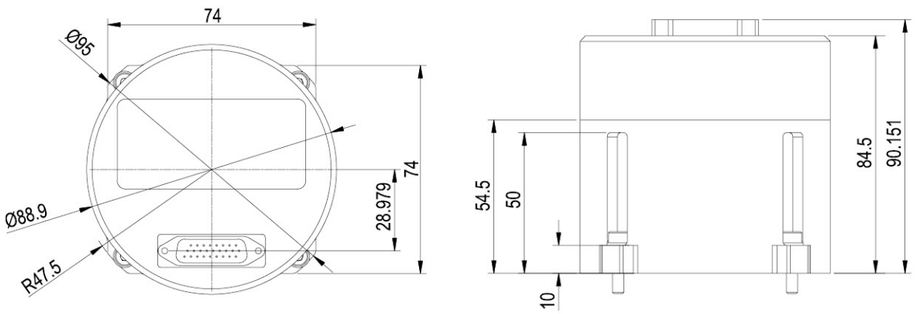




FI 200P

Dimensions

(Unit : mm)



Specifications

Performance	
Rate Sensor	
Operating Range	± 1,000 °/sec
Bias Repeatability	0.5 °/hr [1]
In-run bias stability	0.03°/hr
Scale Factor Accuracy	< 100 ppm
Angle Random Walk	0.025 °/√hr (typ.)
Axis Misalignment	100 µRad
Frequency Response	> 200 Hz @ 3 dB attenuation
Accelerometer	
Operating Range	±10 g [2]
Bias Repeatability	300 µg
In-run Bias Stability	3 µg
Scale Factor Accuracy	200 ppm
Noise	50 µg RMS
Axis Misalignment	100 µRad
Electrical/Mechanical	
Signal Input/Output	RS-422, SDLC
Baud Rate	460,800
Data Rate	400 (1,000) Hz [3]
Operating Voltage	+5, ±15 V
Power Consumption	5 W [4]
Dimensions	Ø88.9 mm × h84.5 mm
Weight	900 g
Environment	
Temperature (Operating)	- 40 to 70 °C
Shock (Operating)	40 g, 11 msec, terminal sawtooth
Vibration	7.7 g RMS

1) Measurement in full temperature range (- 40 to 70 °C)
2) It is optional up to 80 g
3) 1,000 Hz is optional upon request
4) < 8 W @ - 40°C

The specification and technical information contained herein are subject to change without notice and are furnished without charge or obligation. They are given and accepted at recipients sole risks.