Y200 Product Parameters

Intro

The Y200 is a 9-axis gyroscope specifically developed for robots. The device supports a maximum power supply of 60V and uses a standard XT30 CAN interface for quick integration into a robot network. It features an internal potting process for excellent shock resistance, and its casing is designed with a reinforced structure for stable and reliable installation.

Angle Output Param

Angle		Value	Note
Roll	Accuracy	0.15°	1σ RMS
	Range	±180°	
PItch	Accuracy	0.15°	1σ RMS
	Range	±90°	
Yaw(Unreferenced)	Accuracy	0.2°	1σ RMS
	Range	±180°	
Resolution		0.001°	

Gyro Param

Param	Value	Note
Range	±2000°/s	
non-linearity	±0.05%FS	
noise density	0.015°/s/√Hz	
Bias instability	5°/h	Allan variance, 1σ
Bandwidth(-3dB)	50Hz	
Zero offset	±0.5°/s	1σ RMS
Temperature drift	±1°/s	1σ RMS, -40~85°C

Accelerometer Param

Param	Value	Note
Range	±12g	
non-linearity	±0.5%FS	
noise density	190ug/√Hz	
Bias instability	0.05mg	Allan variance, 1σ
Bandwidth(-3dB)	50Hz	
Zero offset	±20mg	1σ RMS
Temperature drift	±20mg	1σ RMS, -40~85°C

Other Params

Param	Value	Note
Voltage Tolerance	12~60V	For XT30 2+2. Not the USB-C. You can also use usb-c to power it
Communication method	CAN	
Max output frequency	200Hz	
Size	60 x 60 x 15 mm	
Working Temperature	-20~85°C	

Installation dimension diagram

60mm

50mm

50mm

60mm

ø3.2mm

15mm