

TG-108 Dynamically Tuned Gyroscope

The Condor Pacific TG-108 is a rugged high performance dynamically tuned gyroscope designed to meet the requirements of stabilization and navigation needs of both strap down and gimballed applications.



Specifications

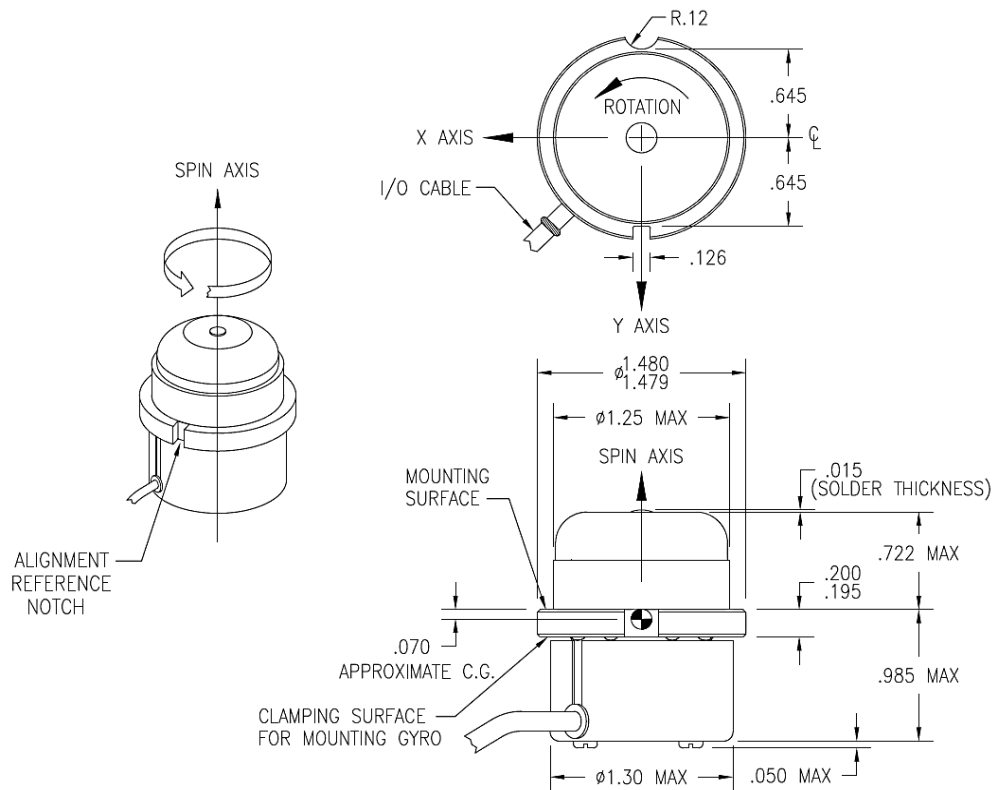
G-insensitive Drift	Random drift	0.05 deg/Hr
	Non-G-Sensitive Drift (Compensatable)	<40 deg/Hr
	Non-G-Sensitive Drift Temp Coefficient	0.1 deg/Hr/°C
G-sensitive Drift	G-Sensitive Drift	7 deg/Hr/G
	G-Sensitive Drift Temp Coefficient	0.1 deg/Hr/G/°C
	G ² Sensitive Drift	0.15 deg/Hr/G ²
Rate Capability	Max Input Rate (Continuous)	120 deg/Sec
	Max Input Rate (Intermittent)	200 deg/Sec
Environmental Capability	Temp range	-54 to 100 or 0 to 150 °C
	Magnetic Sensitivity	0.5 deg/Hr/gauss
Torquer	Torquer Scale Factor	850 - 1350 deg/Hr/mA
	Resistance	7 - 14 ohms
	Torquer Scale Factor Temp Coefficient	20 - 50 PPM/°C
	Torquer Scale Factor Linearity	<0.1 %
	Torquer Axis Alignment (Compensatable)	2 deg



Condor Pacific Industries

Specifications (continued)

Spin motor	Frequency	570	Hz
	Number of Phases	3	
	Start Voltage (Optional)	15	VRMS \emptyset to \emptyset
	Run Voltage	10	VRMS \emptyset to \emptyset
	Start Power	10	Watts
	Run Power	3.5	Watts
	Runup Time at 15VRMS	4.5	Seconds
	Runup Time at 10VRMS	11.0	Seconds
Pickoff	Excitation Frequency	27360	Hz, Sine
	Input Voltage	2.0	VRMS
	Input Current	<5	mA
	Pickoff Scale Factor	500	mV/mrad
Alignment	Pickoff to Case	2	deg
	Torquer to Case	2	deg
	Spin Axis to Reference Surface (max)	0.25	deg
Rotor and suspension	Speed	190	Hz
	Minimum Angular Freedom	8	mrad
Temperature Sensor (Optional)		AD590	



The information contained herein should not be used to create a distinctive gyro specification.
Please consult Condor Pacific Industries of California, Inc. with your specific requirements.

Condor Pacific Industries of California, Inc.

905 Rancho Conejo Blvd, Newbury Park, CA 91320

Phone: 818-889-2150 FAX: 818-889-2160 E-mail: sales@condorpacific.com

Cage Code 4LSHO