

Innalabs[®]

Dynamically Tuned Gyroscope Combination

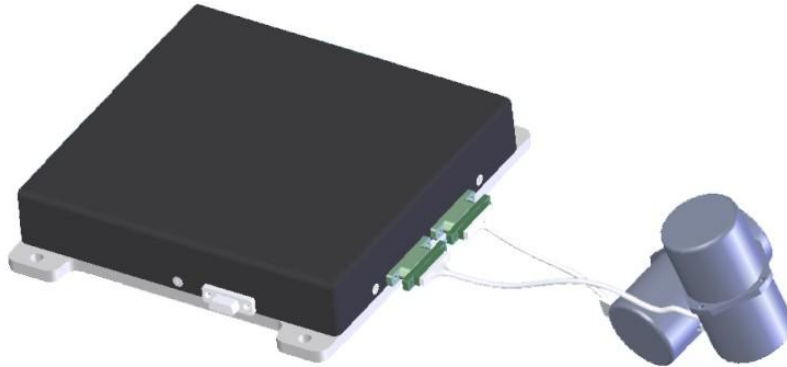
Four-axis

INN-108

Datasheet

November, 2009

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The Innalabs[®] **INN-108** Dynamically Tuned Gyroscope Combination consists of two dual-axis DTGs and an electronic circuit board. It is designed for strap-down use in tactical situations.

Features

- Bias stability of ≤ 1 deg/h
- High Reliability
- Low Drift
- Low Cost
- Fast Start-Up
- Compact, Lightweight Design

Applications

- Tactical missile, smart munitions, standoff weapons
- Unmanned vehicles
- Gimbals and platform stabilization
- Camera and radar stabilization
- Antenna Stabilization Systems
- Downhole Mapping

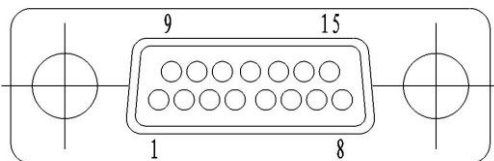
Innalabs Holding Inc.

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SPECIFICATIONS

#	Parameter	Unit	Value
1.	Performance		
1.1	Measurement range	deg/sec	±120
1.2	Bias stability (1σ), 10 sec average time	deg/h	≤1
1.3	Bias repeatability (1σ)	deg/h	≤3
1.4	Scale Factor nonlinearity	ppm	6×10 ³ (±1°/s ~ ±60°/s)
1.5	Scale Factor stability, day-to-day	ppm	2000
2.	Dynamic Characteristic		
2.1	Start up time	s	10
2.2	Bandwidth	Hz	50
3.	Environment		
3.1	Operating temperature	degC	-40...+60
3.2	Storage temperature	degC	-45...+70
3.3	Vibration	g ² /Hz	0.04, 10 ~ 2000 Hz
3.4	Shock	g, ms	40g, 8 ~ 11ms
4.	Electrical		
4.1	Input Voltage	V	28±3
4.2	Input Current	mA	600 (static state)
4.3	Interface		
5.	Physical		
5.1	Dimensions (sensor)	mm	∅ 34 * 65
5.2	Weight	kg	≤2

Connector pin description:

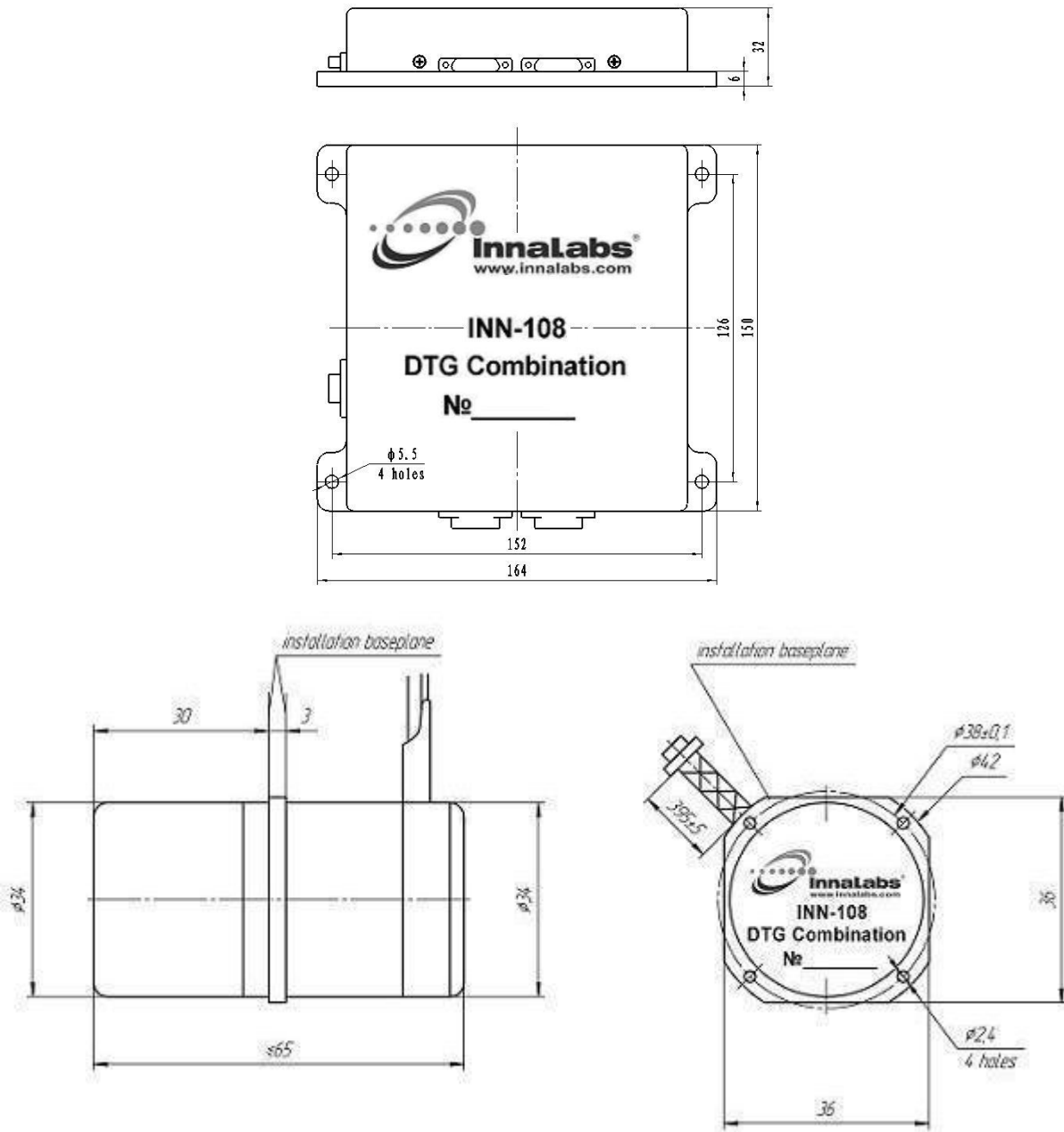


PIN	Signal	PIN	Signal
1	28V	9	28V
2	28VGND	10	28VGND
3	Wx	11	Wx
4	Wy	12	Wy
5	Wz	13	Wz
6	SGND	14	SGND
7	NC	15	NC
8	NC		

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Dimensions drawing (mm):



For more information please contact us:

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