FG314

Two Axis Dynamically Tuned Gyro (DTG)

Leveraging our extensive tuned gyroscope technological expertise, UTC Aerospace Systems has produced the FG314, a two axis dynamically tuned gyro. The FG314 offers excellent bias, drift and noise performance - key parameters for applications such as stabilised platforms, missile seekers and missile guidance.

- Two axis
- Low noise
- Good bias and scale factor stability
- High bandwidth
- Fast run-up time
- Small size and low weight
- Good linearity

AIS Atlantic Inertial Systems
UTC Aerospace Systems

For additional information: Atlantic Inertial Systems Ltd
Clittaford Road, Southway, Plymouth PL6 6DE United Kingdom
Tel: +44(0)1752 69 56 95 Fax: +44(0)1752 72 20 95
Email: gnc.uk@utas.utc.com www.utcaerospacesystems.com/gnc

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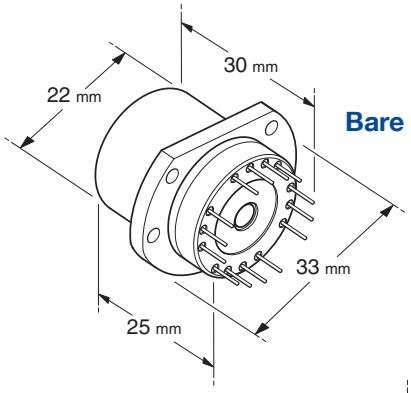
Product Benefits

Current applications in volume production
- High accuracy stabilisation and control
- Fast slewing and low noise scanning systems
- Guidance and control
- Flight control

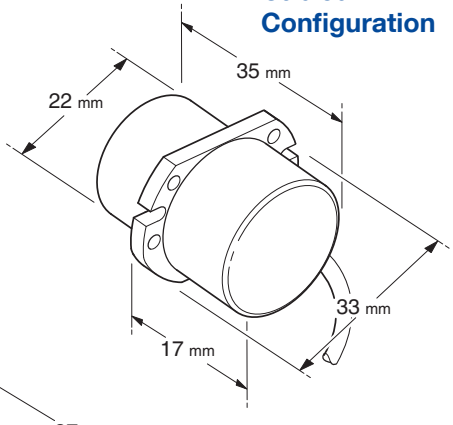
Global customer base; FG314 in service in Europe, USA, Far East, Asia and Africa

Off-the-shelf electronics to provide a total rate detection system

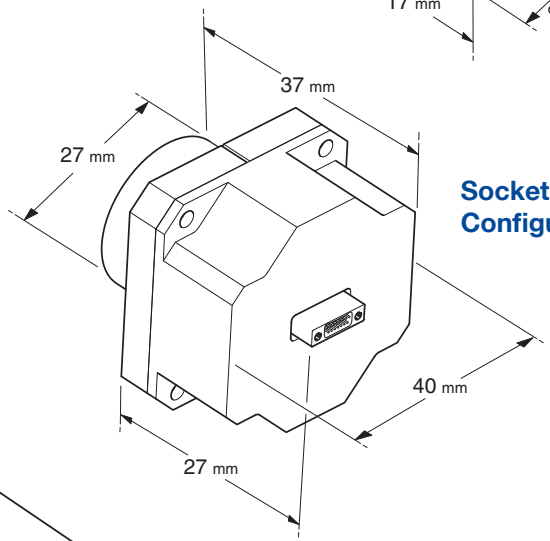


Bare Pin Gyro

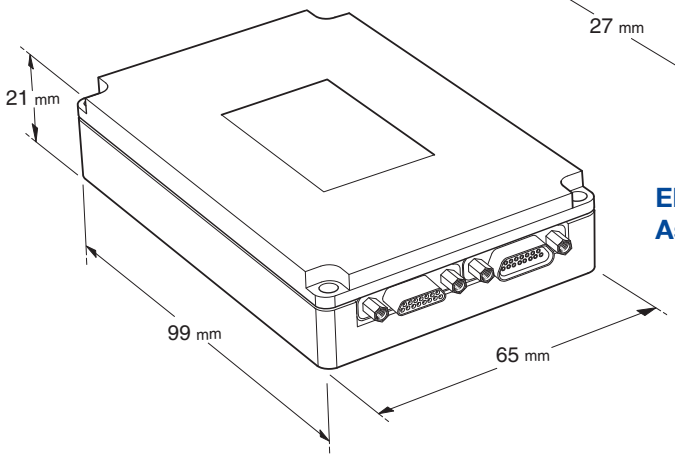
Cabled Configuration



Typical Performance	Angular
Measurement range	±100°/s
Bias repeatability	≤3°/hr 1σ
Random noise (1-100 Hz)	≤0.03°/s rms
Scale factor (nominal)	100 mV/°/s
Scale factor variation (over temperature)	±0.5%
Scale factor (linearity ±20°/s)	≤0.05%
Mass	Gyro <50 gram Electronics <250 gram
Supply voltage	0V ±15V
Power consumption (quiescent)	≤20W
Electrical interface	Analogue DC
Bandwidth	100 Hz
Built-in test	Continuous



Socketed Configuration



Electronic Assembly

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utcaerospacesystems.com

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