



20BM60 SERIES

RATE GYRO UNITS

- Dynamically Tuned Gyroscope & Gyrometer
- High performance, accuracy & reliability
- Compact & robust
- Maintenance free

20BM60 SERIES

Rate gyro units

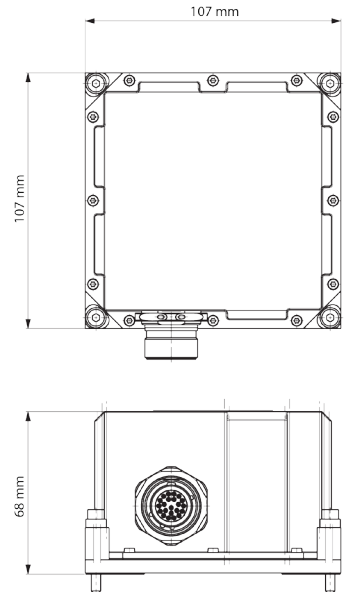
Our expertise in inertial sensors technologies (optical, laser & optical fiber, mechanical dynamically tuned, vibrating), allows Safran Electronics & Defense to propose a family of already well proven stabilization units.

Among the wide pannel of inertial sensors designed and manufactured by Safran Electronics & Defense, a dynamically tuned gyroscope has been selected in order to offer to the user the best compromise between accuracy required for stabilization purposes, robustness, reliability and price. These units also include a DC/DC converter and filters fully compliant with Mil Std 461 and Mil Std 1275.

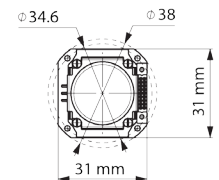
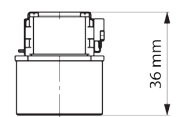
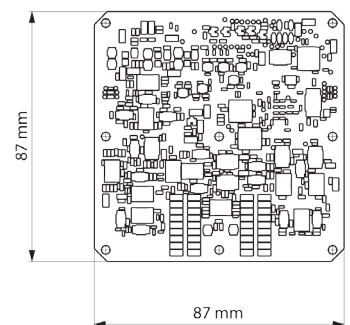
PERFORMANCES	20BM60 series
Number of Axes	2
Rate range	Up to 400°/sec
Scale factor (Analog)	+/-10Vdc for +/- choosen full scale
Scale factor (Digital)	24bits ADC 5.96 E-7 V/LSB
Scale factor accuracy	+/-0.1% (-40°C to +85°C)
Bias setting	5 deg/h
Bias stability (constant temp. -1 hour)	<2 deg/h
Bias (over temperature)	<10°/h rms (-40°C to +85°C)
Bandwidth	>100Hz
Quiescent noise (0.1-100Hz)	<0.02deg/sec rms
Noise under vibration (0.1 -100Hz)	<0.05 deg/sec/g (12g rms 0-1500Hz)
Run up time	< 5 sec
Operating temperature	-40°C to +85°C
Shocks	50g/11ms or 300g / 2ms
Built in test	TTL output
Digital output	RS422 1kHz 115200bauds
Power consumption	<12 Watts

Nota: 20BM00-60 power supply : +/-15Vdc
20BM60 power supply : 18 to 32Vdc Mil STD 1275 and 461

20BM60 rate gyro package



20BM00-60 rate gyro unit



Applications

- Aircraft flight controls
- Fire control systems
- Tactical training simulators
- Sights, optical & infrared line of sight stabilization
- Gyrostabilized gimbals
- Naval & land turret stabilization
- Antenna & sonar stabilization
- Ship anti-roll systems
- Weapon platforms
- Torpedoes & uav controls, etc.

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