

20BM SERIES

RATE GYRO UNITS

- More than 40 years of experience
- Dynamically Tuned Gyroscope & Gyrometer
- Best-in class behavior under shocks & vibrations
- High performance, accuracy & reliability
- Compact & robust
- Proven technology
- ITAR FREE



20BM SERIES

Rate gyro units

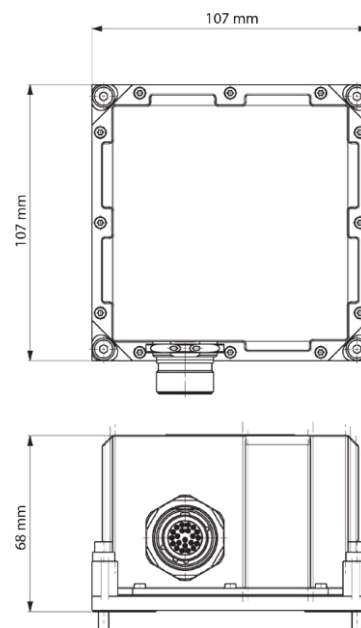
Our expertise in inertial sensors technologies (optical, laser & optical fiber, mechanical dynamically tuned, vibrating), allows Safran Electronics & Defense to propose a family of already well proven stabilization units.

Among the wide panel 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 in block version.

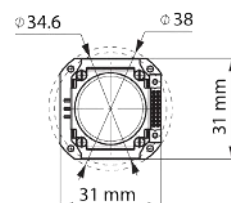
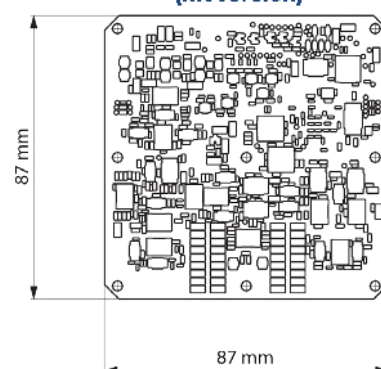
Stabilization gyroscopes are available in both kit version or in a block version, catering to different user needs and preferences. The kit version is composed of 1 electronic board, 1 sensors GSL-82 and flexible cable (optional).

PERFORMANCES	20BM series
Number of Axes	2
Rate range	Up to 400°/sec
Scale factor (Analog)	+/-10Vdc for +/- choosen full scale
Scale factor accuracy	+/-0.1% (-40°C to +85°C)
G sensitivity	10 deg/h/g max
Bias stability (constant temp. -1 hour)	<2 deg/h
Bias (over temperature)	<10°/hrms (-40°C to +85°C)
Bandwidth	>100Hz (rate mode -3db) / >200Hz (ref mode -3db)
Noise (0.1-100Hz)	<0.015deg/sec rms
Start up time	<5 sec
Operating temperature	-40°C to +85°C
Shocks	MIL STD 810G
Built in test	TTL output (0-5V)
Power consumption	<12 Watts (kit); <24 Watts (block) 20BM00-60 power supply : +15Vdc

20BM60 rate/ref gyro unit (block version)



20BM00-60 rate/ref gyro unit (kit version)



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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