

10, 20, & 30MS SERIES

Rate Gyro Units

- More than 40 years of experience
- Solid state vibrating gyroscope
- Best noise performance
- Robust & compact
- Flexible & reliable
- Proven technology
- 200,000 sensors produced



The unit integrates a rugged single axis solid state vibrating rate gyro, which takes benefits of the 60 years of Safran Electronics & Defense's experience in inertial systems.

The MS series is well adapted for civil and industrial applications which offers the best noise performance, very low bias stability and experienced robustness. 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 or 2 electronic boards, 1, 2, or 3 Quapason sensors and flexible cable (optional).

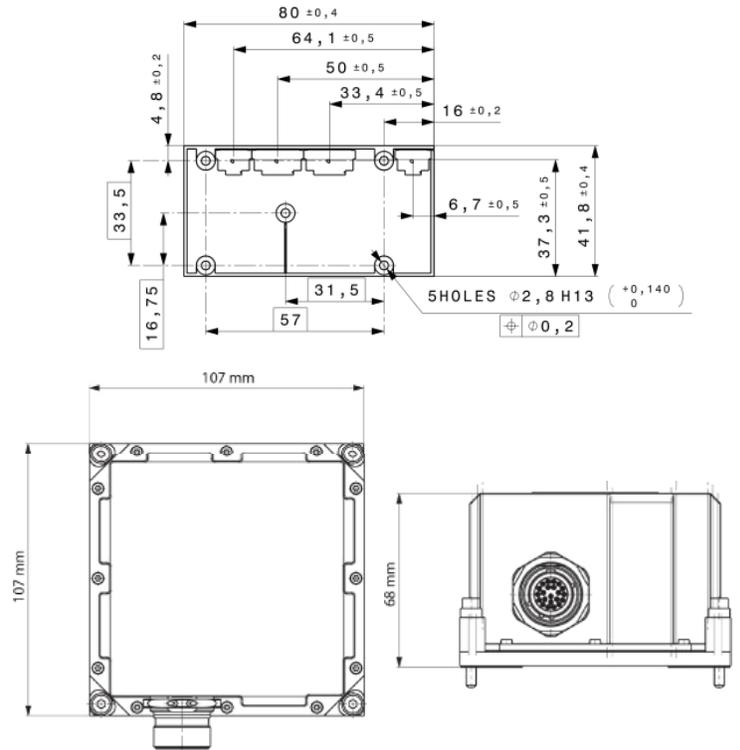
Applications

- Aircraft flight controls
- Antenna & sonar stabilization
- Gyrostabilized gimbals & EOTS
- Naval & land remote weapon systems
- Sights, optical, & infrared line of sights
- Ship anti-roll systems
- Unmanned aerial vehicles (UAV) control
- Autonomous underwater vehicles (AUV) control
- Automotive testing
- Tilting trains
- Robotics
- Etc.

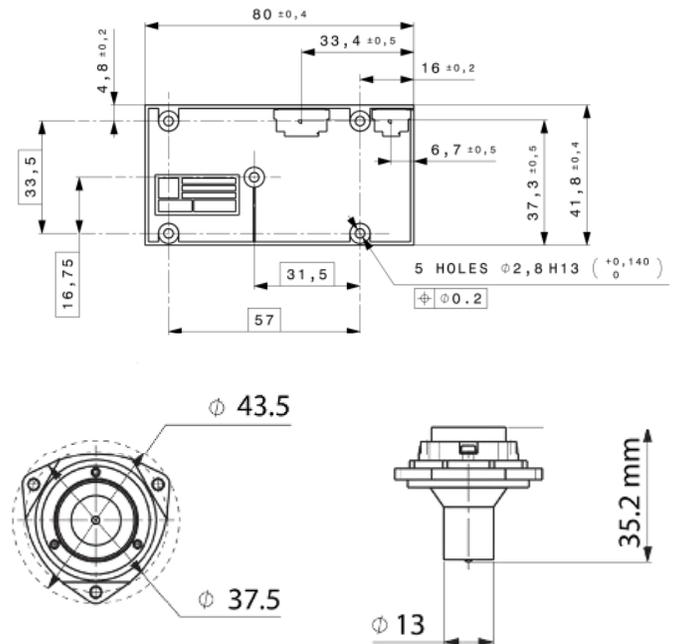
Performances	10, 20, 30 MS series
Number of Axes	1, 2, or 3
Rate range	Up to 300°/sec
Scale factor (Analog)	+/-10 Vdc for +/- chosen full scale
Scale factor accuracy	+/-1% (-40°C to +85°C)
Bias stability (constant temp. -1 hour)	<10 deg/h rms
Drift Variation	360°/h rms (-40°C to +85°C)
Bandwidth (-3db/90°)	100 or 200 Hz
noise (0.1-100Hz)	<0.015 deg/sec rms
Start up time	2 sec
Operating temperature	-40°C to +85°C
Shocks	50g/11ms or 300g/2ms (Mil Std 810 G)
Built in test	TTL output (0/5V)
Power consumption	2 Watts per axis
Power Supply	Kit version +/-15VDC & 5VDC Bloc version 18 to 32VDC MILST1275 and 461

XSMS00-56 series kit version composition:
 One axe: 1 electronic Board, 1 quapason, flexible cable (optional)
 Two axes: 1 electronic Board, 2 quapasons (? per axe), flexible cable (optional)
 Three axes: 2 electronic Boards, 3 quapasons (? per axe), flexible cable (optional)

10, 20, or 30MS rate gyro package (1, 2, or 3 angular rate axis)



10MS00-56 rate gyro unit



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