SOMAG

NSM 500

The NSM 500 provides effective gyro stabilization for electro-optical reconnaissance and surveillance sensor systems to improve situational awareness in rough sea conditions. The two-axis gimbal ensures a stabilized field of view and high-resolution images by compensating the roll and pitch movements of the vessel.

TECHNICAL SPECIFICATIONS

Angular Stabilization Ranges	Pitch at 0° Roll: Roll at 0° Pitch: Yaw (Drift):	≤± 20.0° ≤± 20.0° no drift correction
Residual Deviation[1]		≤0.3° rms
Payload[2]		100 kg | 70 kg | 55 kg 220 lbs | 154 lbs | 121 lbs
Continuous Torque		125 Nm
Dynamic Peak Torque[3]		250 Nm
Mass		33 kg | 72.8 lbs
Dimensions		290 mm | 11.42 in Ø486 mm | Ø19.13 in
IP Class		IP 67
Operating Temperature		-32 °C … +55 °C | -26 °F … +131 °F
Storage Temperature		-55 °C … +85 °C | -67 °F … +185 °F
Communication Interfaces		Ethernet | RS422 | RS232
Operational Voltage		24 VDC (24...30 VDC)
Average Power Consumption[4] **at Operational Voltage**		70 W
Peak Power Consumption[4] **at Operational Voltage**		450 W
Applied Standards		IACS E10, DNV GL, 2006/42/EC Machinery

Preliminary data, subject to change.
The technical specifications in the metric system represent the binding reference values. The imperial units are rounded approximations and are provided for reference only.

1 Vehicle motion ≤± 18° / 15°/s / 40°/s2 – small periodical lateral accelerations (≤ 0.5 g) acceptable, constant lateral accelerations for more than 1 minute reduce the performance of the Mount (can be compensated by external GPS input)

2 Possible payload weight depends on lateral acceleration and CoG of payload / shown data is based on 0.9 g lateral acceleration and a CoG payload offset to the Mount surface of: 250 mm (9.8 in) | 400 mm (15.7 in) | 500 mm (19.7 in)

3 Maximum duration 90 s at 55 °C surrounding temperature | longer if temperature inside the unit is < 55 °C

4 Horizontal payload CoG offsets are not considered; without wind force and other possible external forces

www.somag-ag.de

NSM 500
NAUTICAL STABILIZATION MOUNT

PRECISE SENSOR STABILIZATION
on medium to large maritime vessels

IP 67
for high performance stabilization in rough maritime environments

MEDIUM-SIZED GIMBAL
of SOMAG Marine Gyro Stabilization Mounts

ETHERNET INTERFACE
for integration in ship's infrastructure

Field of Application

MARINE

Application Examples

Antenna System

Pan/Tilt Camera

SCAN ME.

Scan this QR-Code with your phone to get further information about the NSM 500 - Marine.

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