

SINGLE AXIS SENSOR PREMIUM-SERIES

PE-MEMS-X-CAN-G-GS70

Electronic inclination sensor with additional gyro sensor

- Inclination sensor with additional gyro sensor for shock compensation
- Redundant measuring system for safety-relevant applications
- Robust aluminum housing with protection class up to IP68

CE – konform

SIL
IEC 61508

PL
EN 13349



TECHNICAL DATA

Measuring system	MEMS and Gyro
Housing design	GS70
Housing material	aluminium
Housing size	70 x 70 mm
Housing high	30 mm
IP code of housing up to	up to zu IP68
Connection*	plug / cable
Weight	300 g
Data logging	acceleration and gyro sensor
Tilt angle	max. 0°–360°
Angular accuracy	Beschleunigungssensor: ±0.1°, Gyrosensor: ±0.5°
Version	acceleration/ gyro

Signal output	CAN-Bus
Protokoll	CANopen / CANopen-safety
Resolution	max 0,01° / Digit
Supply	9–42 V DC
Current consumption	<120 mA
Temperature range	-30 °C up to +70 °C
Temperature coefficient	between 0.03° / 10 K and 0.1° / 10 K
EMV*	ISO 13766-1/-2, EN 61000-6-2/-13
Vibration*	10–1000 Hz, 4 g
Shock*	50 g, 6 ms

Specific features:
extremely resistant to strong vibrations (<1 min)

*Depending on customer specifications.

Article master number 1887F13

Typical

APPLICATION AREAS



Ship



Rails



Construction
machine



Logistics



Medicine



Industry

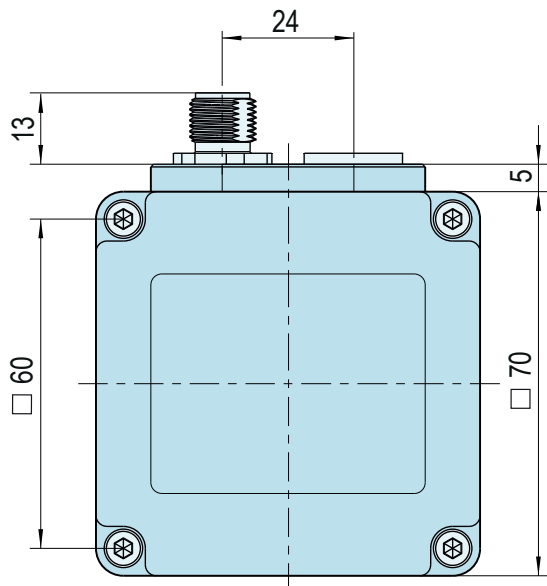
You can find more information about our inclination sensors here: fsg-sensors.de/neigungssensoren



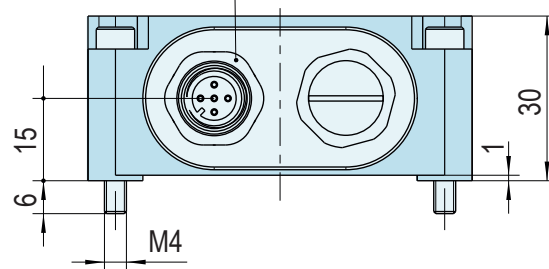
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DIMENSIONAL DRAWINGS



flange socket, 5-poles
M12, A-coded

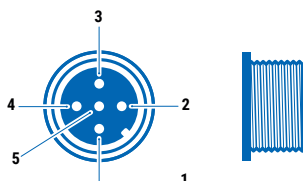


CONNECTION

MH1023-MU-Ex-IECEx

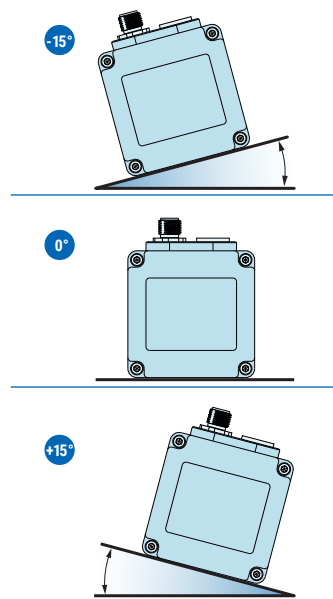
Signal output: 4-20 mA

PIN	Assignment
1	CAN SHLD
2	24 V DC
3	GND
4	CAN High
5	CAN Low



MOUNTING POSITION

X-axis max. 0-360°



CONTACT

If you have any questions
about this or any other
FSG product, please do
not hesitate to contact us.



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