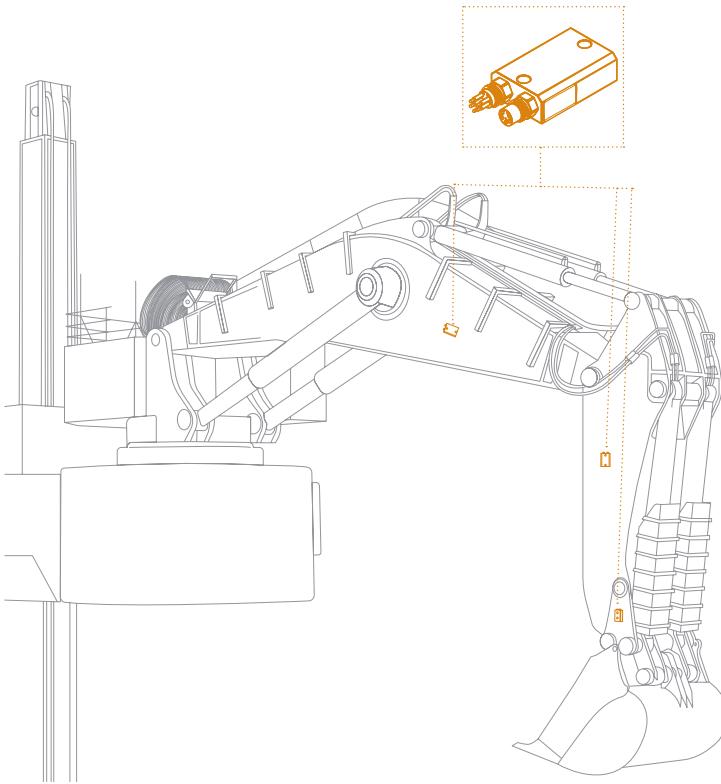


SAE3-HSU

Submersible stainless steel CANopen inclination sensor



Features

- 3-axis inclination sensor
- 0.1° accuracy
- Fusion stabilized inclination
- CANopen profile CIA410
- Robust stainless steel housing with submersible connectors
- Small sensor format
- Software configurable
- Assured quality due to intensive in-house testing
- Seamless compatibility with other MGB-TECH products

Made to endure

Precision **CANopen inclination sensor**, designed for the most demanding environments. Encased in a **robust, waterproof stainless steel housing with submersible connectors**, it features a **gyro-compensated 3-axis angular sensor with full 360° measurement**.

This sensor is **compatible with other MGB-TECH products**, ensuring reliable performance and straightforward integration.



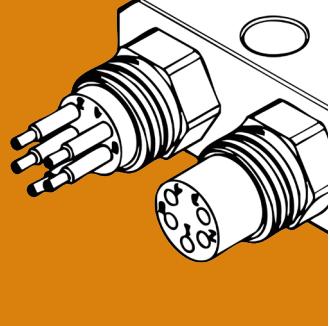
Order information

For additional questions, please contact one of our sales representatives. You can reach us through info@mgb-tech.com, visit our website by scanning the QR code or go to www.pos.mgb-tech.com/machine-guidance to fill out a product request form.

MGB-TECH

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TECHNICAL DATA



MEMS technology

The fully solid state inclination sensor has a three axis accelerometer and gyro MEMS technology on board. These MEMS not only give you low noise highly reproducible accurate measurements but also make them stable over temperature and vibrations.

Ensured accuracy

Every 8 milliseconds the internal position engine will determine the 3D inclination of the sensor. The engine fuses the measurements from the gyro and acceleration sensor through a Kalman filter that is specifically tuned for machine control applications giving you best in class results.

Configurable over CAN

The sensor is fully software configurable over the CAN bus. Different output parameters are available with configurable update rates.

Multifunctional sensor

There are 24 possible freedoms for mounting the sensor in every position imaginable.

MGB-TECH compatible

The SAE3-HSU sensor is designed for seamless compatibility with other MGB-TECH products, enabling immediate use without the need for additional customization.

MEASUREMENT	
Axes supported	3-axis
Max. update rate	120 Hz
Measurement range Pitch/Roll	Pitch: +/- 90° Roll: +/- 180°
Quaternion output	Available
Resolution	TBD
Static Accuracy	0.1°
COMMUNICATION & INTERFACE	
Interface	CAN - 2.0
Communication Protocol	CANopen - CIA 410
ELECTRICAL SPECIFICATIONS	
Power Supply	10-30 VDC (can run on 12 V and 24 V systems)
Current Consumption	< 1 Watt
Reverse polarity protection of the supply voltage (Y/N)	Yes
ENVIRONMENTAL/MECHANICAL	
Connection	Submersible Micro Circular 5P Male Submersible Micro Circular 5P Female
Protection acc. To EN60529	IP68
Operating Temperature	From -40°C to +80°C
Submersible	250m Permanent
Material Housing	Stainless steel 316
Mounting Style	Bolt-on
Dimensions (LxWxH)	90x 60 x 28 mm
Weight	Approx. 0.8 Kg