



## AMA Innovation Award 2020

goes to **SENIS!**

**SENIS AG** Switzerland provides advanced smart sensors and instruments for magnetic field and electric current measurements.

Dear partners and customers, we are delighted to announce that the SENIS' Fast Magnetic Angle Sensor "FAMAS" was granted the AMA Innovation Award 2020! In this Newsletter we will present the new angle sensor FAMAS and will announce our two other new sensors, the 3DHALL magnetic field sensor and the ANYCS current sensor.

### 01 AMA Innovation Award 2020 for angle sensor FAMAS

**SENIS** developed a new sensor chip **FA**st Magnetic Angle Sensor for industrial mass production and was granted the AMA Innovation Award 2020 – [see more details](#)

FAMAS is the first cost effective, fast and accurate magnetic angle sensor based on two vertical Hall elements and on direct angle to digital format conversion. The patented algorithm, which is implemented in this sensor, includes an innovative servo loop control system. It allows an angle sensing at practically unlimited rotary speeds, with ultimately short and angle independent latency. FAMAS provides the direct angle information by significantly reducing sensor cost. The implemented measurement technique provides angle measurement of magnets in end-of- and out-of-shaft topology. - [Link to FAMAS](#)

SENIS has participated in the EU Horizon 2020 Program for Research and Innovation and has obtained the "Seal of Excellence".

- [Link to the file](#)

The development of the new FAMAS concept is fully aligned with the SENIS strategy of constantly disrupting the market by providing great solutions. SENIS has a strong IP and know-how, Senis is strongly customer oriented and agile. SENIS is a new player in the sensor ASIC business and it is open for partners to faster industrialize and commercialize the FAMAS chip, as well as several other ready-to-go solutions.

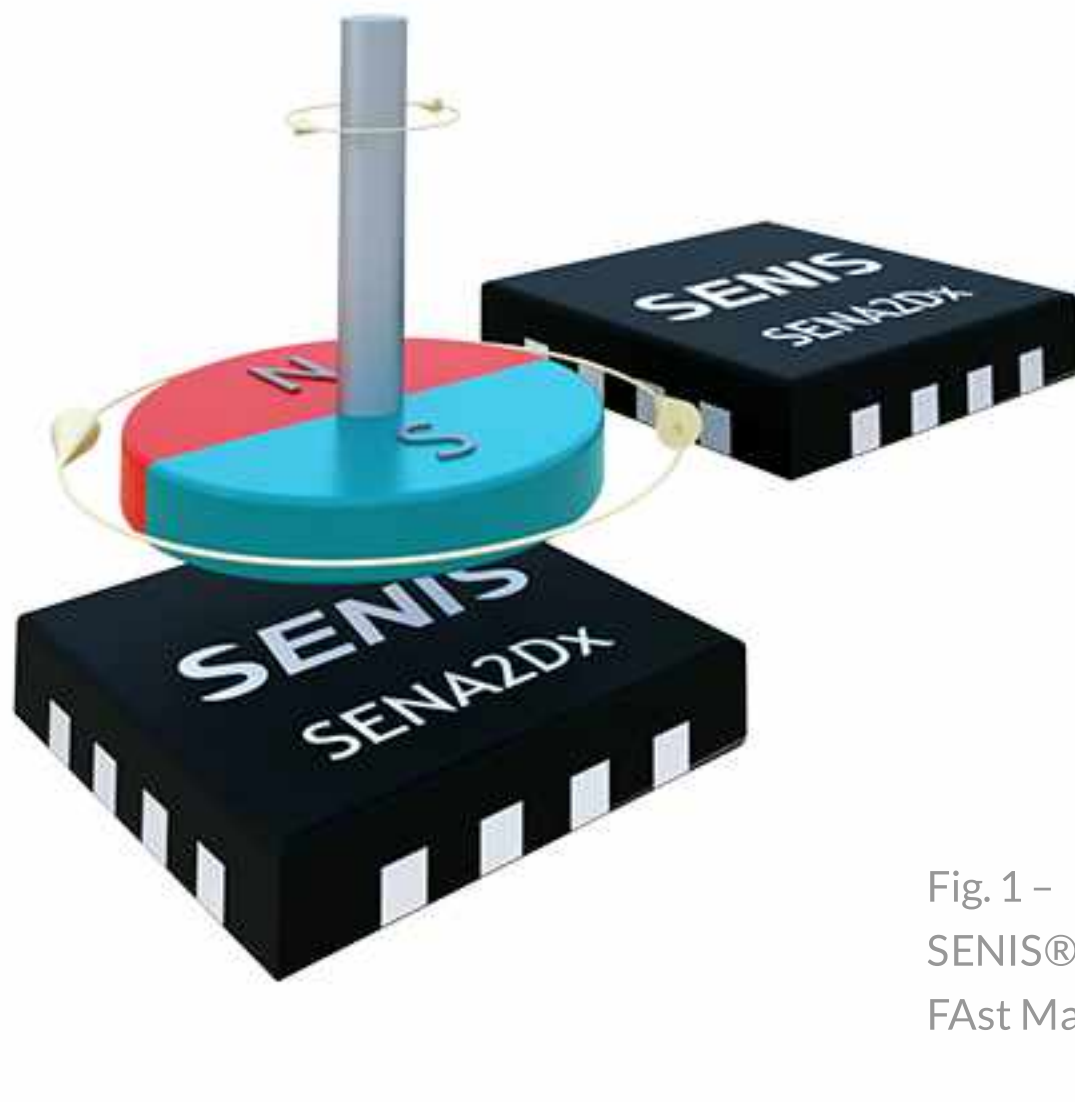
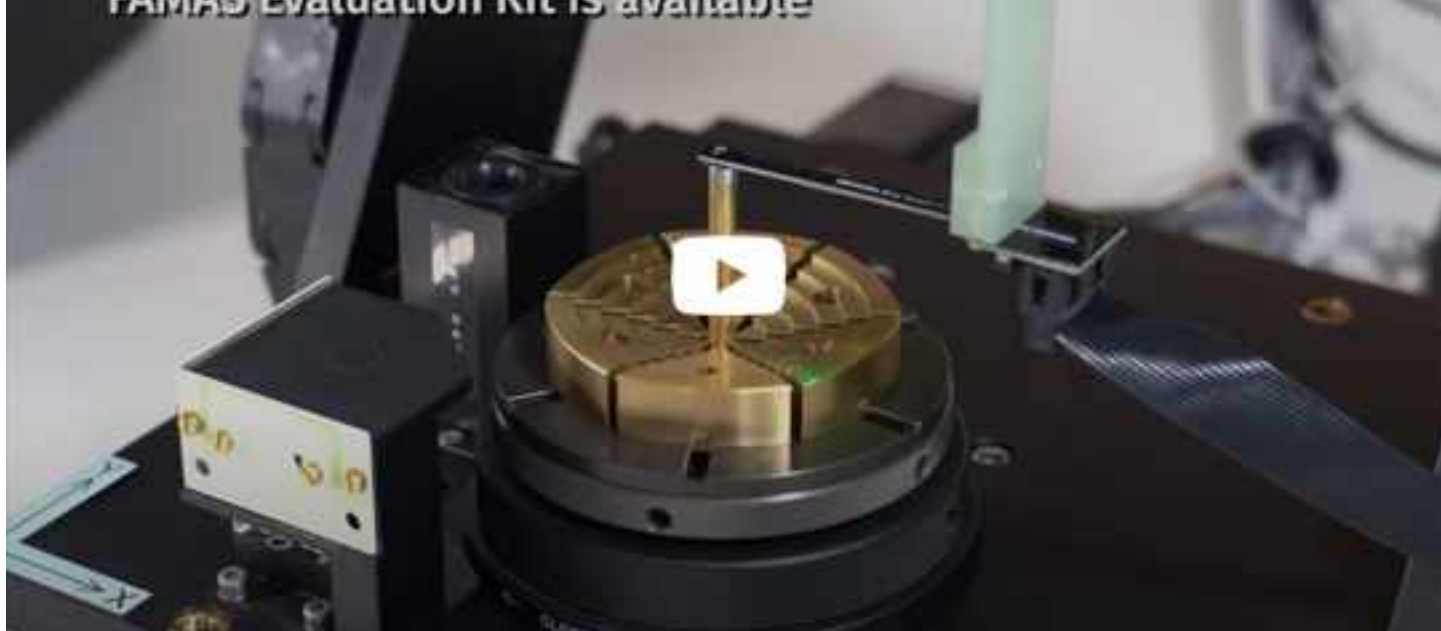


Fig. 1 – SENIS® FAMAS - FAst Magnetic Angle Sensor

See video

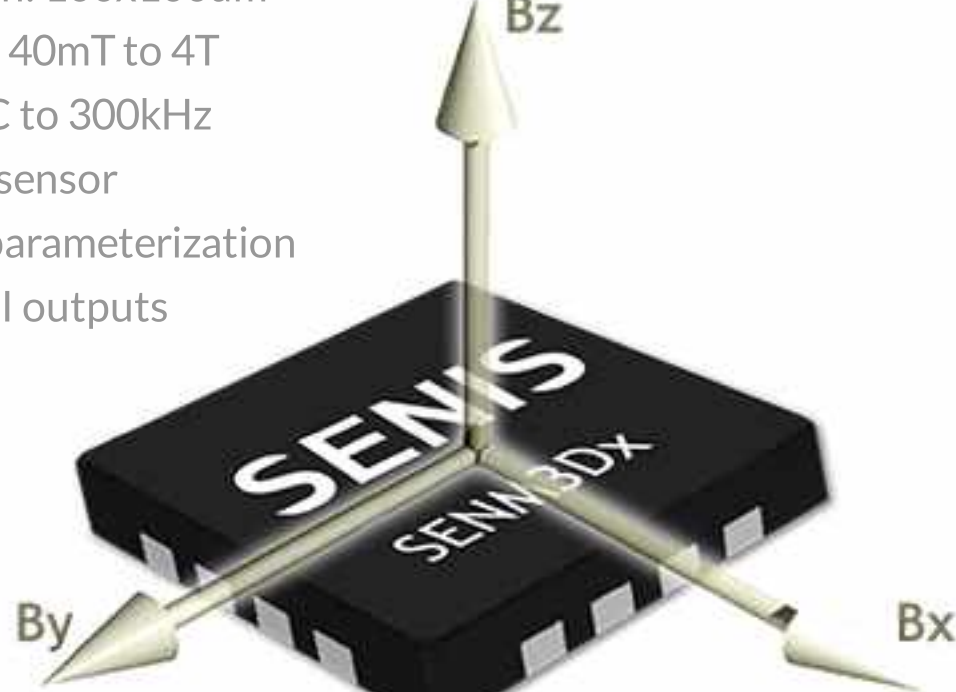


The Sensor Evaluation Kit is available now! Please send your inquiry to [info@senis.ch](mailto:info@senis.ch)

### 02 3DHALL - 3-Axis Hall Magnetic Sensor Chip - SENM3Dx

The SENIS® 3DHALL sensor SENM3Dx is a CMOS integrated magnetic field sensor that allows the acquisition of all three magnetic-field components (Bx, By and Bz) at the same time and at the same spot.

- Selection of active 1-, 2- or 3-axis
- High Magnetic resolution: 1uT
- High spatial resolution: 100x100um
- Six selectable ranges: 40mT to 4T
- High f-bandwidth, DC to 300kHz
- Built-in temperature sensor
- On-chip correction/parameterization
- Analog, PWM and SPI outputs



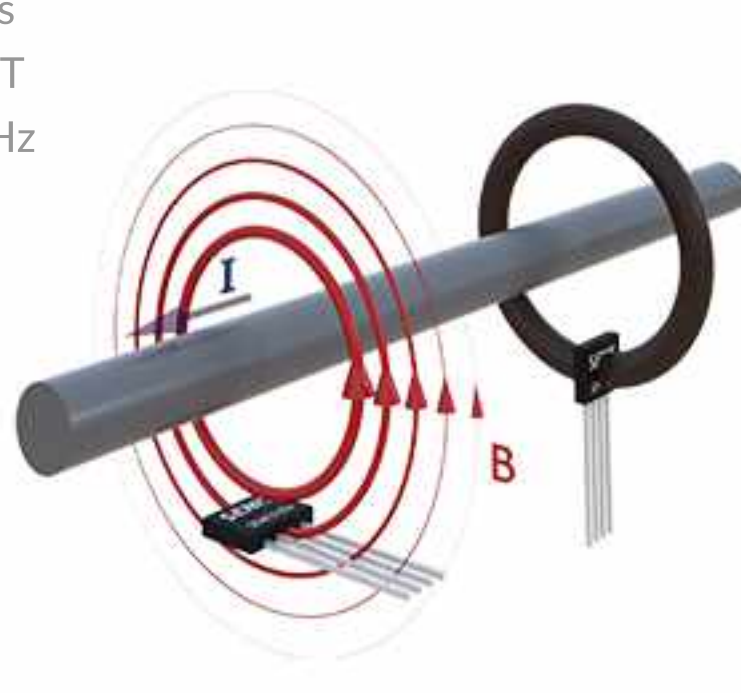
- See more

The Sensor Evaluation Kit is available now! Please send your inquiry to [info@senis.ch](mailto:info@senis.ch)

### 03 Current Sensor Chip ANYCS – SENCs1Dx

The SENIS® ANYCS is a CMOS integrated magnetic field sensor that allows the acquisition of either perpendicular or in-plane component of a magnetic field, in the frequency range from DC to 1MHz. The sensor may be applied for current sensing in Motor drives, Battery charging, Power electronics, Short circuit protection and Electric power transmission.

- Sensitivity parallel or perpendicular to chip surface
- Ultra fast response time <0.5us
- 32 selectable ranges: 5mT to 1T
- Large f-bandwidth: DC to 1MHz
- Ratiometric / non-ratiometric
- Operating temp.: -40° +150°
- Power supply: 3.3V-5.5V;



-See more

### 04 Imprint

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