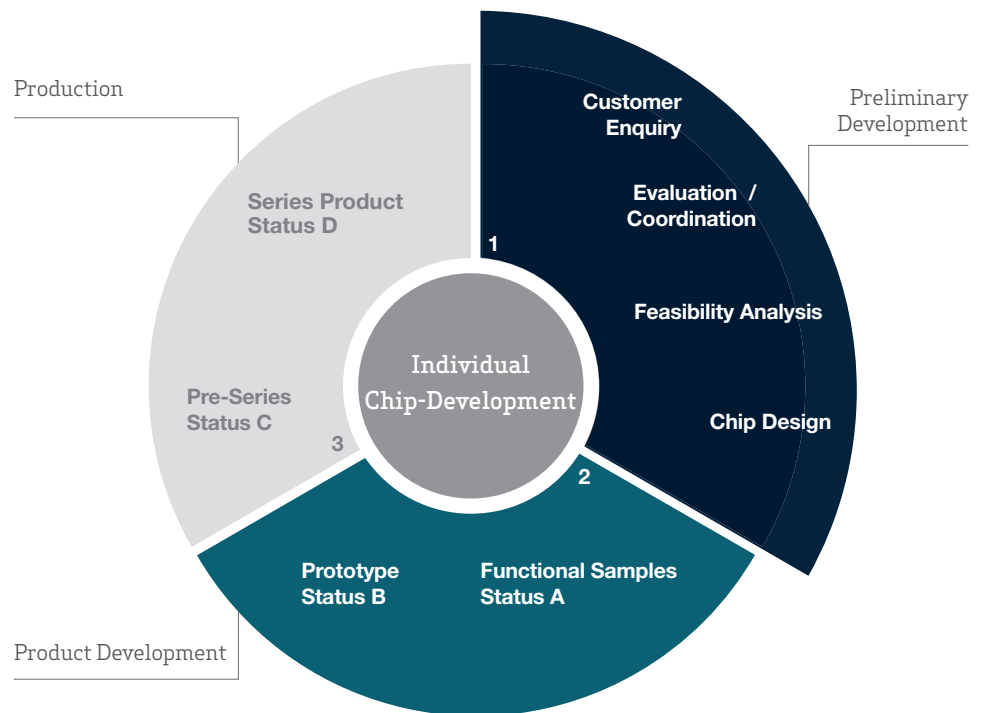


# Your individual Chip Design.

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Future-Proof with innovative Sensor Technology.





# Our Strength. Our Products.

**MR sensors from Sensitec are used in a very wide range of applications. Our customer's requirements are highly individual and cannot always be covered by a standard chip design. In these special cases we can support our customers by developing a customized sensor chip specifically designed to suit the application and its special demands.**

It is our passion to create solutions which ensure Sensitec customers sustainable competitive advantages. This is the way to develop products which set the benchmark around the world. Thanks to innovative solutions in development and production increasingly capable magnetic micro systems are created.

## People who will fascinate you

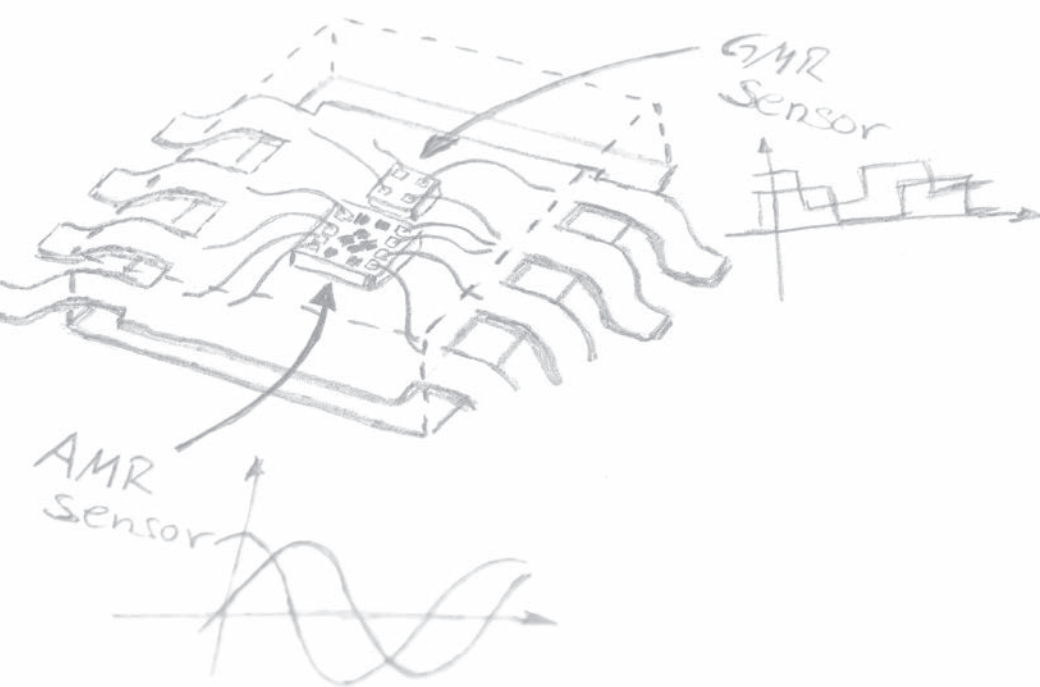
In dialogue with you we will find the right path and the right solution for you. Consultative. Challenging. Cutting-edge technology. Based on our long-time experience in dimensioning and

designing of xMR sensor chips the function of new chip designs can be precisely predicted by means of specially developed simulation software. Often new chip designs can be adapted precisely to the customer's requirements without the necessity to manufacture any chip hardware.

## Our expertise, your benefit

Sensors and systems are developed by Sensitec experts in Lahnau and Mainz. Technological principles and new possibilities are systematically developed. As one of only a few manufacturers of xMR sensors we master all three industrially used technologies: Anisotropic Magnetoresistive (AMR), Giant Magnetoresistive (GMR) as well as Tunnel Magnetoresistive (TMR) technology.

Sensitec.  
Performance. Sustained.



# Safeguard the Future ...

... with competitive Products.

We develop sensor chips which are customized to suit your individual requirements. Based on our long-time experience, a broad portfolio of technological expertise, standard products and customer-specific solutions we can offer a customized chip development even for industrial customers only needing moderate volumes.

## We make the difference

For us, innovation and performance are always at the forefront. It is our objective to make you as our customer sustainably more successful. Be different from your competition – generate advantages for you and your customer by providing individual solutions.

There are endless possibilities, be it a completely new development of a special sensor tailored exactly to your requirements or slight adjustments of an existing design.

## Example

You need a sensor for incremental length measurement for a battery-driven application? No problem!

Based on existing technology as well as the FixPitch design we can develop a high-impedance sensor suitable to the requirements of the application.

**Individual. Optimized.**

## Your advantages at a glance

- Competent advice from product specification to final product
- Strong support during design-in
- Concept and support of complete sensor solutions
- Customized development of integrated solutions

Determine yourself the level of integration: From single components to complete systems.

### Component

Single components that are intended for integration into a module or system.



Angle - & Length Measurement.

#### AA700

AMR FreePitch sensor

#### AL700

AMR FixPitch sensor

#### TA900

TMR FreePitch sensor

#### TL900

TMR FixPitch sensor

#### MLx / MWx

Measurement scales / pole rings



Current Measurement.

#### CFS1000

Programmable AMR current sensor in SMD housing, flexible for different current ranges

#### AL798AMB

Averaging via 4 poles  
1 mm pitch

#### AL779

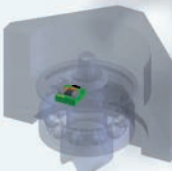
High-impedance AMR sensor

#### TL916

Specific pitch 8 mm

### Module

A module comprises several components, e.g. a sensor or signal processing unit.



#### GLM700

GMR toothed wheel sensor module

#### EBx7800

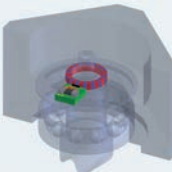
Sensor module with incremental output - for toothed structures (passive)

#### EBx7900

Sensor module with incremental output - for pole rings and scales (active)

### Kit

Construction set of unassembled modules and components for integration into a system or evaluation kit.



#### GLAM700

Demoboard for GLM sensor family

#### EBK

Demoboard for EBx sensor family

#### GL716

Special pitch 1.257 mm

#### CFK1000

Demoboard for CFS1000 current sensor

#### CMK2000

Demoboard for CMS2000 current sensor

#### CMK3000

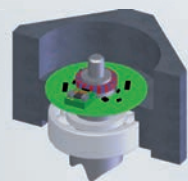
Demoboard for CMS3000 current sensor

#### CDK4000

Demoboard for CDS4000 current sensor

### System

Fully functional combination of components and / or modules. The design and assembly effort is minimal.



#### CMS2000

AMR current sensor with high signal-to-noise ratio

#### CMS3000

AMR current sensor with 2 MHz bandwidth

#### CDS4000

AMR current sensor with compact design and overcurrent detection



## Magnetic Field Measurement.

### AFF700

AMR magnetic field sensor, suitable for measurement of weak fields, e. g. terrestrial magnetic field

### GF705

GMR magnetic field sensor, adjusted characteristic curve for magnetic switches

### GF708

GMR magnetic field sensor, usable as reference sensor

### GF701

Special characteristic curve for selected field strength



## Magnetic Solutions.

### GLM711AVx

GMR tooth sensor, special design with 0.5 / 1.5 m connecting cable

### EPP7703

Signal processing unit incl. software for MSWindows

### Speed Sensor

Precise speed sensor for variable tooth pitches

### VTMS

Valve train measurement system (e.g. valve stroke)

The products marked in yellow present a small selection of chip development projects which have been carried out together with customers.

## Customized Development.

### Individual Chip Development.

Development of a specific chip design according to your requirements.

### Specific System Solution.

Ideally integrated system solution for your applications.

### Process and System Production.

Your service partner for chip-on-board and system production.

## xMR-Sensor Technology.

### Advantages of xMR Sensor Technology.

The robust contactless technology offers high dynamic performance and excellent reliability.

### Special Design Features.

Functions and characteristic curves can be individually designed via special sensor layouts.

### Optimized Measurement Scales.

Production of magnetic pole rings and linear measurement scales with different encodings.

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