

# XENSIV™ magnetic speed sensors

## Easy to use, robust, and cost-effective sensors for speed measurement

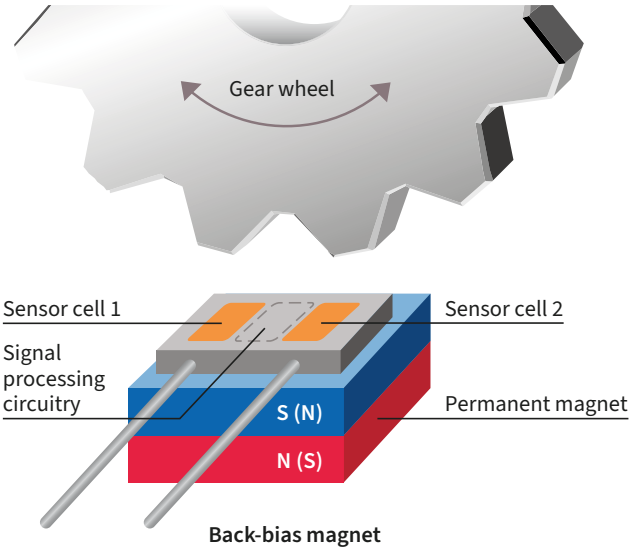
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# XENSIV™ magnetic speed sensors

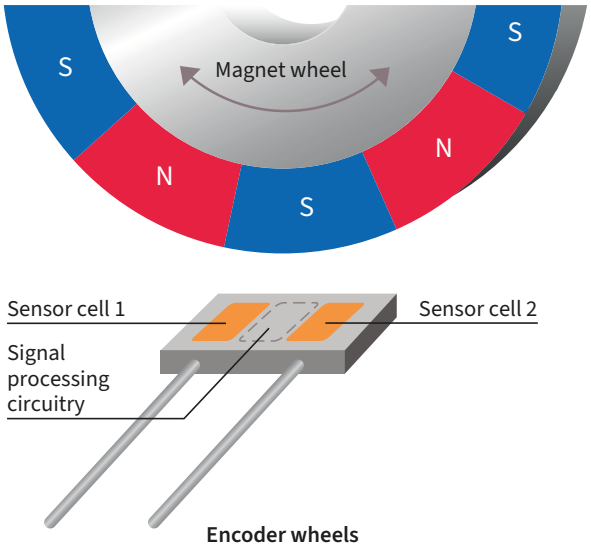
## Easy to use, robust, and cost-effective sensors for speed measurement

Infineon's XENSIV™ Hall-, GMR-, and TMR-based magnetic speed sensors are designed specifically for measuring speed in safety and powertrain applications, such as speedometers, ABS, camshafts/crankshafts, and automatic transmissions. These sensors are also applied in similar industrial applications. The speed sensors utilize a ferromagnetic gear tooth or encoder structure to measure linear or rotational speed and position. A Hall-based sensor, for instance, measures rotational speed using a gear tooth and a magnetic encoder wheel. Additionally, the majority of these sensors offer several enhanced features, such as integrated capacitors for superior EMC robustness and top-tier ESD protection.

**Typical application of a magnetic differential sensor**




Back-bias magnet




Encoder wheels

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## TLE4922
## XENSIV™ mono-Hall speed sensor with twist-independent mounting

This TLE4922 Hall-based magnetic speed sensor is specifically designed to provide an easy-to-use, robust, and cost-effective solution for vehicle or industrial speed sensing applications. The sensor can be back-biased using a simple and low-cost bulk magnet, while its twist-independent mounting ensures good air gap performance and switching accuracy.
Its hidden adaptive hysteresis and calibration algorithm deliver high accuracy over air gap variations and provide immunity to vibration and run-out events.

**Features**
- Large operating air gap capability
- Flexible mounting (also known as twist-independent mounting)
- Hidden adaptive hysteresis
- Low current consumption
- Reverse magnetic polarity capability
- Advanced protection technology
  - Reverse voltage protection at VS-pin
  - Short-circuit protection
  - Overtemperature protection
- Wide operating temperature ranges of -40°C ≤ $T_j$ ≤ ±150°C
- High ESD robustness up to ±4 kV HBM
- Three-wire PWM voltage interface

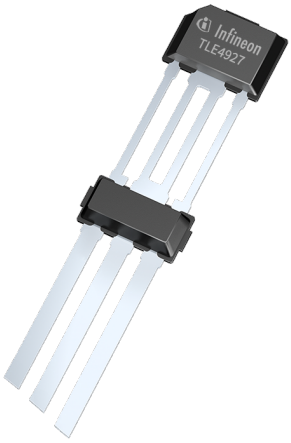



**Applications**
- Industrial applications
- Two-wheeler and automotive vehicle speed

## TLE4927C E6547
## XENSIV™ differential Hall effect crankshaft sensor with hidden adaptive hysteresis

Infineon's TLE4927C magnetic speed sensor detects the motion and position of ferromagnetic and permanent magnet structures by measuring the differential flux density of the magnetic field. A self-calibration mode ensures optimum accuracy during operation within just a few transitions after start-up. The sensor combines a fast power-up time with high accuracy and sensitivity, enabling functionality with large operating air gaps. It is qualified for automotive temperature ranges and meets the requirements of the harsh environmental conditions prevalent in automotive applications.
The TLE4927C is available in an SSO package with two integrated capacitors.

**Features**
- Differential Hall speed sensor to measure speed and position of tooth/pole wheels
- Easy to use single-chip solution in SSO-3-92
- Symmetrical switching point in the middle of the tooth/magnetic pole
- South and north pole pre-induction possible
- Digital output signal (voltage interface)
- Fast start-up time
- Reverse voltage protection at $V_S$-pin
- Short-circuit and overtemperature protection of output
- Automotive operating temperature range



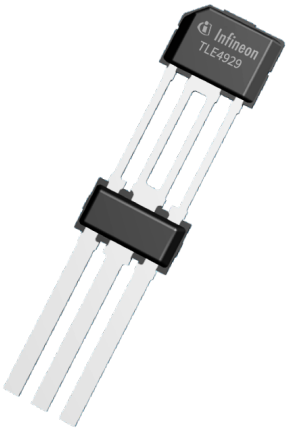

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# TLE4929
## XENSIV™ fully programmable crankshaft sensor with direction detection

The TLE4929 is an active differential Hall sensor ideally suited for crankshaft applications and similar industrial applications, such as a speedometer or any speed sensor with excellent accuracy and low jitter capabilities. It also addresses new requirements for crankshaft speed sensing from hybrid powertrains. An advanced vibration detection algorithm ensures valid sensor data for any hybrid powertrain traction. This improves the engine's start efficiency and helps avoid misfiring or ECU error messages caused by wrongly calibrated sensor data. Also, the compatible 3-pin package allows a one-to-one replacement of the former generation of crankshaft sensors without direction detection, TLE4924/25/26/27/28, with widely backward compatible functionality through flexible EEPROM configuration of parameters, meaning the former TLE492x-family can be mimicked.

**Features**

- Differential Hall speed sensor to measure speed and position of tooth/pole wheels
- Easy-to-use single-chip solution in SSO-3-52
- Switching point in the middle of the tooth enables backward compatibility
- Robustness over magnetic stray-field due to the differential sensing principle
- Precise misfire detection through excellent jitter performance
- Dedicated hybrid engine algorithm keeps combustion engine calibrated during an electric drive cycle
- Digital output signal with programmable output-protocol including diagnosis interface
- Direction detection and stop-start-algorithm
- High accuracy and low jitter
- High sensitivity enables large air gap
- End-of-line programmable to adapt engine parameters
- Can be used as a differential camshaft sensor
- Pre-programmed version TLE4929C-XAN available, TLE4929C-X2A for wheels with 32 teeth
- Automotive operating temperature range




| Product | Sensor technology | Classification | Direction detection | Automotive | Industrial | Protocol | RoHS |
|---|---|---|---|---|---|---|---|
| **TLE4922** | Mono-Hall | AEC-Q100 | – | ✓ | ✓ | Single pulse | ✓ |
| **TLE4927** | Differential Hall | AEC-Q100 | – | ✓ | ✓ | Single pulse | ✓ |
| **TLE4929** | Differential Hall | AEC-Q100 | ✓ | ✓ | ✓ | PWM, Single pulse | ✓ |

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# TLE4941PLUSC/TLE4942-1C/TLE4943C
# XENSIV™ Hall differential wheel speed sensors

The TLE4941PLUSC is a widely used wheel speed sensor. TLE4942-1C and TLE4943C complement this sensor with additional direction information using PWM or AK protocol.

As a single-chip sensor, it magnetically measures the car's wheel speed with its differential Hall technology. The ideal all-purpose sensor is equally suitable for pole and steel wheel applications. Because of their differential principle, these sensors are immune to any kind of undesired magnetic stray fields, ferromagnetic particles or other disturbances.

**Features**

- Family of Hall sensors available with and without direction detection
- Excellent stray field robustness

**Applications**

- Pole wheel applications
- Steel/tooth wheel applications by using back bias magnet




| Product | Sensor technology | Pole wheel | Steel wheel | Classification | Direction detection | Protocol | iTPMS |
|---|---|---|---|---|---|---|---|
| **TLE4941PLUSC** | Hall differential | ✓ | ✓ | ISO 26262-compliant | – | Standard | – |
| **TLE4942-1C** | Hall differential | ✓ | ✓ | ISO 26262-compliant | ✓ | PWM | – |
| **TLE4943C** | Hall differential | ✓ | ✓ | – | ✓ | AK | – |

ISO 26262 compliant

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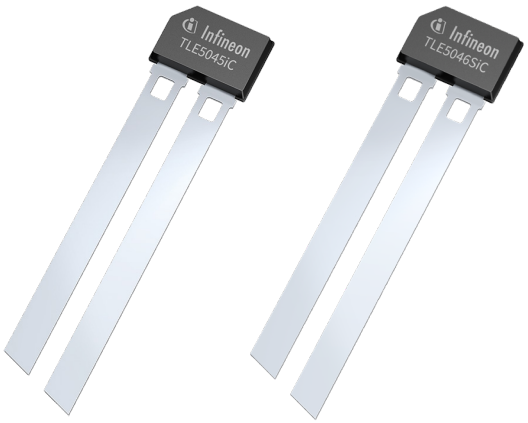
# TLE5045IC/TLE5046SIC
# XENSIV™ GMR-based wheel speed sensors

The TLE5045IC/TLE5046SIC is our state-of-the-art wheel speed sensor family based on GMR technology. The family consists of a designed-to-cost speed-only TLE5045IC and a high-end TLE5046SIC that provides not only direction detection but also true “zero-speed” capability and the possibility of self-diagnostics.

TLE5045IC and TLE5046SIC are developed according to ISO 26262 to fulfill ASIL B and support ASIL D systems. The TLE5046SIC with direction detection is available with PWM or AK protocol.

**Features**

- One family of speed sensors for all wheel speed sensing applications in same package
- Best-in-class in sensitivity, jitter, and duty cycle independent from magnetic target wheel
- “Zero speed” capability
- ISO 26262-compliant ASIL B development, supporting ASIL D systems
- Multiple protocol variants with and without self-diagnosis functionality
- Integrated circuitry for improved EMC and ESD robustness even without external capacitor




**Applications**

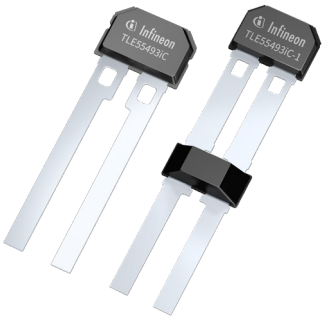
- Pole wheel applications
- Autonomous driving (e.g., park assist)

| Product | Sensor technology | Pole wheel | Steel wheel | Classification | Direction detection | Protocol | iTPMS |
|---|---|---|---|---|---|---|---|
| **TLE5045IC-R050** | iGMR differential | ✓ | – | ISO 26262-compliant | – | Standard | ✓ |
| **TLE5046SIC-PWM2-R050** | iGMR differential | ✓ | – | ISO 26262-compliant | ✓ | PWM | ✓ |
| **TLE5046SIC-AK-LR** | iGMR differential | ✓ | – | ISO 26262-compliant | ✓ | AK | ✓ |

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# TLE55493IC
# XENSIV™ high-end TMR wheel speed sensor

TLE55493IC is our next-generation wheel speed sensor family based on TMR technology. Linearized TMR brings together the benefits of GMR and Hall worlds: very good sensitivity, excellent jitter performance, a very big linear range, and excellent linearity for high-resolution algorithms. It perfectly addresses the customer requirements for autonomous parking and low-speed driving. Electric vehicles with fast torque can be perfectly served with valid direction detection with the first pulse. The complete TLE55493 family is compliant according to ISO 26262 ASIL D process.




**TLE55493IC is available in two different packages:**
PG-SSO-2-51 and PG-SSO-2-53

| Product | Sensor technology | Pole wheel | Steel wheel | Classification | Direction detection | Protocol | Resolution |
|---|---|---|---|---|---|---|---|
| **TLE55493IC-LR** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK | Standard |
| **TLE55493IC-PW2-50** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | PWM | Standard |
| **TLE55493IC-LR-4H** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-4H | High |
| **TLE55493IC-LR-6M** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-6M | High |
| **TLE55493IC-LR-8H** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-8H | High |
| **TLE55493IC-1-LR** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK | Standard |
| **TLE55493IC-1-PW2-50** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | PWM | Standard |
| **TLE55493IC-1-LR-4H** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-4H | High |

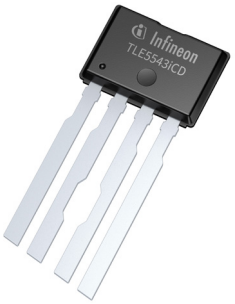
## Features and benefits

| Key features | Key benefits |
|---|---|
| – Immediate valid direction with first pulse | – Blind spot detection at automated parking |
| – Improved spatial resolution | – High protocol variants enable accurate, faster, and smoother control of the car movement |
| – Improved duty cycle | – Smoother control of car movement at low speed movement |

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# TLE55493ICD
# XENSIV™ high-end TMR dual die wheel speed sensor

TLE55493ICD is our next-generation wheel speed sensor family based on TMR technology. Linearized TMR brings together the benefits of GMR and Hall worlds: very good sensitivity, excellent jitter performance, very big linear range and excellent linearity for high-resolution algorithms. It perfectly addresses the customer requirements for autonomous parking and low-speed driving. Valid direction detection with the first pulse can perfectly serve electric vehicles with fast torque. The complete TLE55493 family is developed as ASIL C (D) according to ISO 26262. The dual die sensor has two fully galvanic insulated sensors in one slim package that perfectly serve L3+ cars in case redundancy is required.




**TLE55493ICD will be offered with two galvanic isolated dies in one package:**
PG-SSO-4-52

| Product | Sensor technology | Pole wheel | Steel wheel | Classification | Direction detection | Protocol | Resolution |
|---|---|---|---|---|---|---|---|
| **TLE55493ICD-LR** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK | Standard |
| **TLE55493ICD-PW2-50** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | PWM | Standard |
| **TLE55493ICD-LR-4H** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-4H | High |
| **TLE55493ICD-LR-6M** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-6M | High |
| **TLE55493ICD-LR-8H** | iTMR differential | ✓ | | ISO 26262-compliant | ✓ | AK-8H | High |

## Features and benefits

| Key features | Key benefits |
|---|---|
| – Immediate valid direction with first pulse | – Blind spot detection at automated parking |
| – Improved spatial resolution | – High protocol variants enable accurate, faster, and smoother control of the car movement |
| – Improved duty cycle | – Smoother control of car movement at low speed movement |
| – Redundancy for L3+ cars | – Same TMR chip will be re-used in galvanic isolated dual die package |

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## TLE4953C
## XENSIV™ two-wire transmission speed sensor

The differential Hall-based magnetic speed sensor TLE4953C can detect direction and was developed specifically to meet the needs of high-end transmission applications. Its jitter performance and high sensitivity enable designers to create high-accuracy systems with excellent vibration suppression. Adaptive hysteresis and the dynamic self-calibration algorithm ensure outstanding measurement results with fine and coarse target wheels. As with other Infineon speed sensors, the south and north poles can be pre-inducted. The TLE4953C features a current interface and comes in a two-wire package with an integrated 1.8 nF over-molded capacitor for improved EMC.



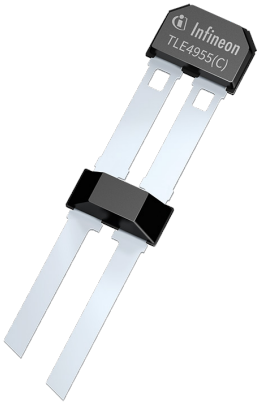

**Features**
- Detection of rotation direction
- Highly accurate speed measurements from 0 to 12 kHz over large operating air gaps
- Excellent vibration suppression
- Broad operating temperature range
- AEC-Q100 qualified

**Applications**
- Automatic transmission systems
- Industrial speed sensing using current interface

## TLE4955C
## XENSIV™ differential Hall-based speed sensor leading the way in vibration robustness

The TLE4955 family of differential Hall-based magnetic speed sensors is specially designed to meet the latest requirements in transmission vibration suppression. It provides best-in-class vibration suppression for applications that require a two-wire current interface.

The TLE4955 family offers advanced algorithms, dynamic self-calibration, jitter control, and precise sensitivity levels, ensuring accurate speed measurements even in the harshest fine and coarse target wheels. Designers can choose different interface protocol versions.




**Features**
- Detection of rotation direction
- Best-in-class vibration suppression
- Highly accurate speed measurements from zero to 12 kHz over large operating air gaps
- Broad operating temperature range
- Four different interface protocols
- AEC-Q100 qualified

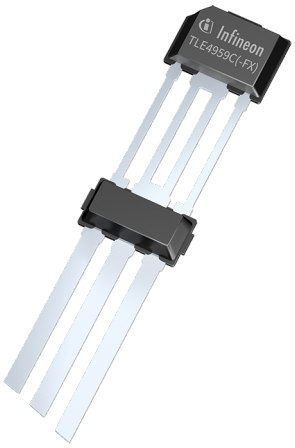
**Applications**
- Automatic transmission systems
- Industrial speed sensing using current interface

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## TLE4959C/TLE4959C-FX
## XENSIV™ three-wire transmission speed sensor with direction detection

The TLE4959C and TLE4959C-FX introduce state-of-the-art technology to Infineon's transmission sensor portfolio, offering ideal solutions for three-wire applications. These differential Hall-based magnetic speed sensors are specifically designed for applications requiring direction detection and active vibration suppression. With exceptional air gap performance, industry-leading Hall jitter, and strong immunity to stray fields, the TLE4959C and TLE4959C-FX are perfectly suited not only for traditional transmissions but also for modern hybrid applications. While the TLE4959C comes with a standard protocol, the TLE4959C-FX variant provides access to customizable protocols (e.g., speed-only) and can be programmed directly at the customer's site.

**Features**
- Active vibration suppression
- Highly accurate speed measurements from 0 Hz to 10 kHz over large operating air gaps (up to 20 k for TLE4959C-FX)
- Common three-wire voltage interface
- Broad operating temperature range
- AEC-Q100 qualified
- Customer programmable, e.g., protocol and hysteresis level (for TLE4959C-FX)




**Applications**
- Automatic (hybrid) transmission systems

## TLE4959-5U/TLE4959-5U-FX
## XENSIV™ four-wire transmission speed sensor with direction detection

TLE4959-5U and TLE4959-5U-FX are four-wire voltage-interface Hall-based magnetic speed sensors designed for transmission-speed applications, offering vibration suppression and direction-detection output. TLE4959-5U-FX provides enhanced flexibility, enabling custom protocol configuration through its customer-programmable EEPROM.

Both TLE4959-5U and TLE4959-5U-FX are integrated Hall-based magnetic speed sensors specifically optimized for transmission applications. Their primary role is to deliver precise information on rotational speed and direction to the transmission control unit, featuring a state-of-the-art algorithm that effectively suppresses vibration while maintaining excellent air-gap performance.

**Features**
- Voltage interface
- Active vibration suppression
- Direction detection output
- Dynamic self-calibration
- 0 Hz capability
- Customer programmable, e.g., protocol (for TLE4959-5U-FX)




**Applications**
- Automatic transmission applications
- Transmission applications with speed with direction detection

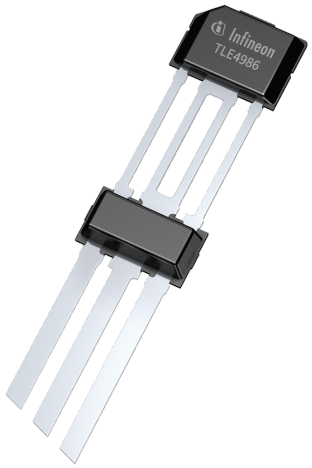
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# TLE4986C
## XENSIV™ mono-Hall based camshaft speed and position sensor

The TLE4986C is an active Hall sensor ideally suited for camshaft applications and similar industrial applications such as speedometers. Its basic function is to map a tooth or a notch into a unique electrical output state. It has an electrical trimming option for post-fabrication trimming to achieve true power on (TPO) capability even in the case of production spreads such as different magnetic configurations or misalignment. A self-calibration algorithm has also been implemented to achieve optimum accuracy during normal running operations. The EEPROM is adaptable to various performance-affecting parameters. It comes in a three-pin SSO-3-52 package for the supply voltage and an open-drain output.

**Features**

- Hall switching sensor to measure speed or phase of pole/tooth wheels
- Digital output signal (voltage interface)
- Monocell chopped Hall system
- TPO true power-on functionality
- Twist independent mounting (TIM)
- Dynamic self-calibrating algorithm
- IST individual switching threshold
- End-of-line programmable switching points
- EEPROM for various algorithm options
- TC of back-bias magnet pre-programmed
- High resistance to mechanical stress
- Enhanced immunity against ESD and EMC
- Improved µ-cut capability
- Enhanced operating temperature range
- Module package SSO-3-52




| Product | Sensor technology | Magnet TC | Automotive | Industrial | Protocol | RoHS |
|---|---|---|---|---|---|---|
| **TLE4986C** | Mono-Hall | SmCo | ✓ | ✓ | Single pulse | ✓ |

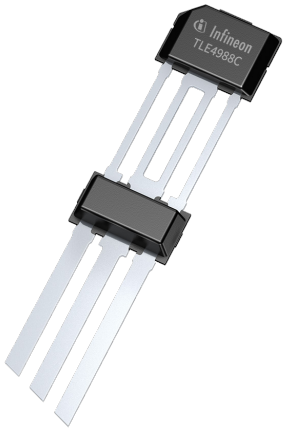
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# TLE4988C
## XENSIV™ mono-Hall based camshaft speed and position sensor with reduced dependence on rare-earth back-bias magnets

The Infineon XENSIV™ TLE4988C products feature advanced camshaft sensing performance and improved application adoption. One major benefit of advanced sensor performance for module manufacturers is the reduced dependence on rare-earth back-bias magnets. The TLE4988C has proven the right performance with a ferrite back-bias magnet for all relevant parameters such as phase jitter, phase accuracy, and speed effect across key temperature, air gap, and rpm ranges. With automatic in-car TPO calibration, the most accurate start-up sensing in a real application environment is ensured by addressing tolerances of ferromagnetic wheels and magnetic encoders and mounting tolerances of the sensor. Infineon's TLE4988C products are optimized with three different back-bias magnet materials: Fe, SmCo, and NdFeB. All products come inside the well-established camshaft sensor package SSO-3-52, allowing low design switch effort in terms of package and performance compatibility with predecessor products.

**Features**

- Digital output signal (voltage interface)
- True power on functionality (TPO)
- Auto TPO – automatic in car calibration
- Improved switching level/phase accuracy
- TC range including ferrite
- High-speed digital interface for diagnosis/test
- Twist independent mounting (TIM)
- EEPROM for algorithm options and ID
- Increased ESD and EMC immunity, improved µCut feature
- Digital magnet temperature compensation
- Mechanical stress compensation
- Module package SSO-3-52




| Product | Sensor technology | Magnet TC | Automotive | Industrial | Protocol | RoHS |
|---|---|---|---|---|---|---|
| **TLE4988C** | Mono-Hall | SmCo, NdFeB, Fe | ✓ | ✓ | Single pulse | ✓ |

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## TLE5555IC/TLE5555ICB
## XENSIV™ TMR-based transmission speed sensor for pole/toothed wheel in top/side read configuration with/without back-bias magnet

The TLE5555IC is a differential magnetic speed sensor based on tunnel magnetoresistive (TMR) sensing technology. This technology enables best-in-class jitter and air gap performance and allows sensing flexibility in top and side read configurations. Its basic function is to provide information about the rotational speed and the direction of the rotation to the transmission control unit. Therefore, the sensor family includes a sophisticated algorithm that actively suppresses vibration. The output has been designed as a two-wire current interface based on a PWM (pulse width modulation) principle. The TLE5555IC operates without external components and is fully EMC-compliant thanks to its capacitor integrated on a silicon level.

**Features**

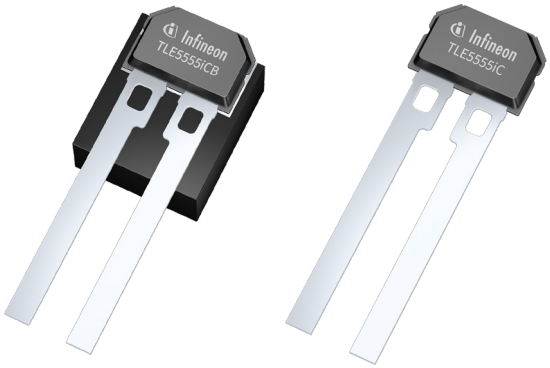
- High magnetic field sensitivity enables ultralow jitter over high operating air gap range
- Two wire PWM current interface
- Direction detection
- Vibration suppression (active via protocol suppression; passive via adaptive hysteresis)
- Differential sensing principle enables magnetic stray field robustness
- Equipped with sintered ferrite back-bias magnets and algorithm-optimized for toothed wheel applications
- Package options for top and side read mounting make bending of sensor leads obsolete
- EMC robust without the need of capacitors on sensor leads
- Comprehensive digital diagnostic interface, enabling readout of internal signals and electronic chip ID
- Customer configurable EEPROM in FX version

**Potential applications**

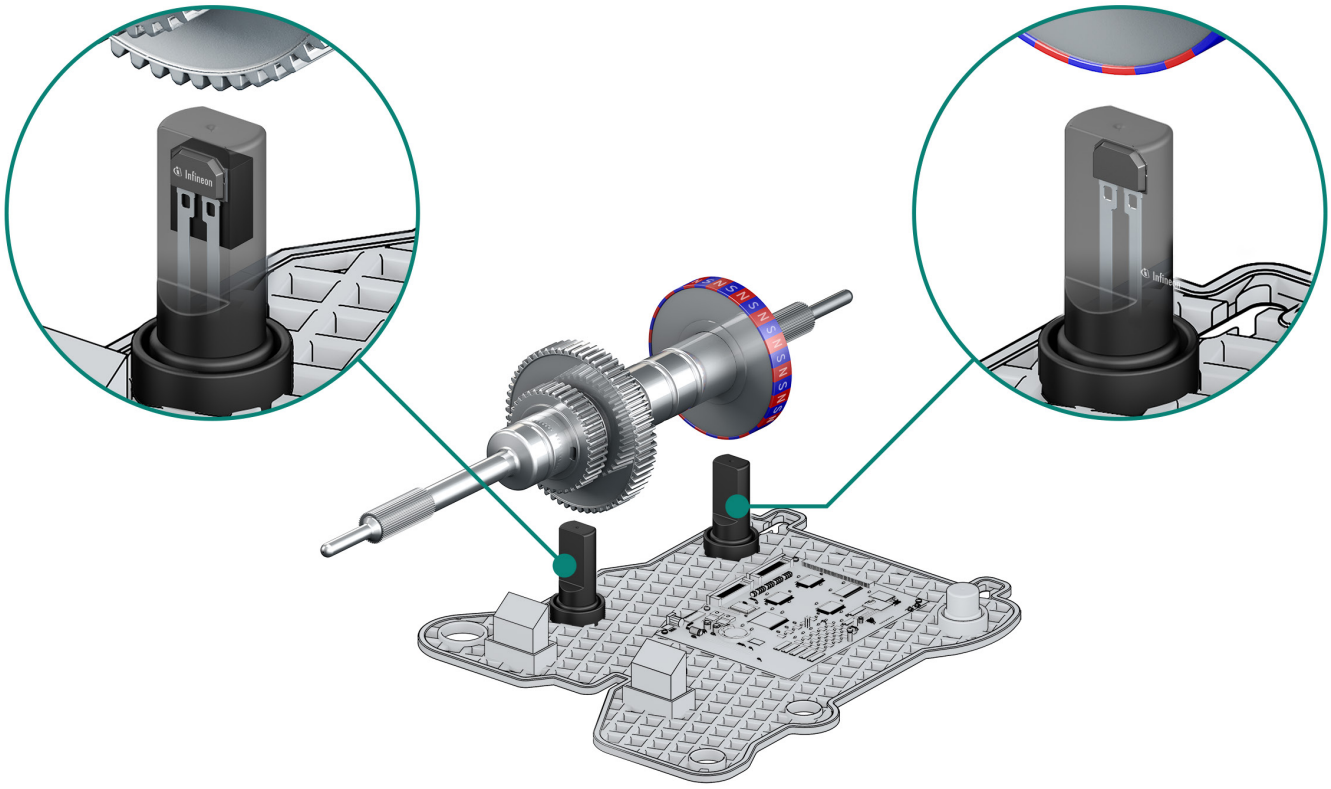
- Ideal for the use in harsh environments, particularly automotive transmissions
- Suitable for all kinds of transmission systems including dedicated hybrid transmission (DHT) and electric vehicle (EV) concepts

The "ICB-TOP" family members are designed for toothed wheel applications and have a ferrite back-bias magnet attached. They come in a RoHS-compliant two-pin package and are qualified for automotive usage. It is recommended that the ICB-TOP be used within an over molded module. For magnetic encoder (ME) applications, other sensors – called the ME family – are available.

The FX version, which provides a programmable EEPROM, offers high flexibility. This sensor offers many protocol options established in transmission applications over the last decades. Additionally, it offers the option to configure the sensor algorithm (e.g., magnetic threshold, vibration robustness) to optimize the sensor performance for the target wheel fully.




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## Product overview

| Product | Description | Classification | Ordering code | Package |
|---|---|---|---|---|
| **TLE5555IC ME E0** | For pole wheel (top + side-read), E0 protocol | ISO 26262-compliant | SP003883456 | SSO-2-51 |
| **TLE5555IC ME E1** | For pole wheel (top + side-read), E1 protocol | | SP005832719 | SSO-2-51 |
| **TLE5555IC ME E4B** | For pole wheel (top + side-read), E4B protocol | | SP005829763 | SSO-2-51 |
| **TLE5555ICB E0-TOP** | For steelwheel (top-read), E0 protocol, incl. back-bias magnet | | SP003883500 | SSOA22-2-51 |
| **TLE5555ICB E1-TOP** | For steelwheel (top-read), E1 protocol, incl. back-bias magnet | | SP005401486 | SSOA22-2-51 |
| **TLE5555ICB E4B-TOP** | For steelwheel (top-read), E4B protocol, incl. back-bias magnet | | SP005832705 | SSOA22-2-51 |

ISO 26262 compliant

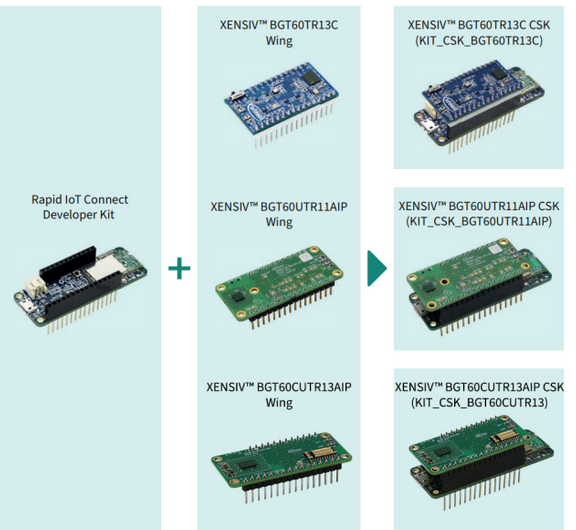
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# XENSIV™ connected sensor kit

## Rapid IoT prototyping experience enabled by XENSIV™ sensors

The XENSIV™ connected sensor kit enables rapid development of a custom solution built on Infineon products. The CSK supports customers in testing sensor-driven IoT products and use cases, as well as in prototyping. It offers a real-time sensor evaluation with custom configurations. The development kit supports use cases based on XENSIV™ sensors, e.g., BGT60CUTR13AIP, BGT60TR13C and BGT60UTR11AIP 60 GHz radars, and DPS368 pressure sensor (sense), PSOC™ 62 microcontroller embedded processing (compute), connectivity via Infineon AIROC™ CYW43012 dual-band 2.4 GHz and 5 GHz Wi-Fi 4 (802.11n) and Bluetooth® 5.4 combo radio module (connect), and hardware security with OPTIGA™ Trust M (secure). Code examples and sensor libraries are available in the ModusToolbox™ to help customers create use case-specific application codes for new product offerings.

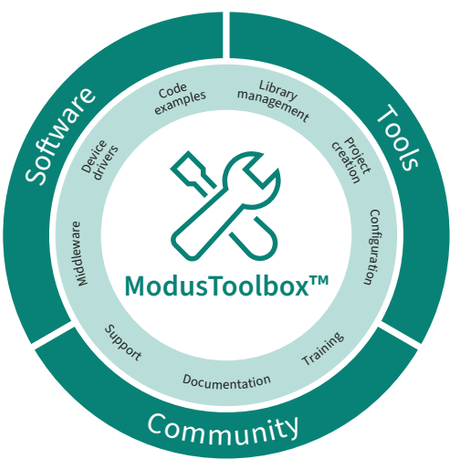



**Features**

- Small form factor: 22.5 x 63 x 30 $mm^3$ – Adafruit Feather compatible
- Wi-Fi and Bluetooth® 5.0-compliant combo radio module
- Power optimized design, deployable with battery
- Interchangeable sensor Wing boards stacked individually or combined
- Seamless integration into ModusToolbox™
- FCC and CE certified

**Benefits**

- Ideal for prototyping battery-powered IoT devices due to optimized power consumption. Suited for customer field trials.
- Rapid development and deployment via code examples in ModusToolbox™ for presence detection, entrance counter, air quality measurements. Enabler for multi-sensor data fusion.



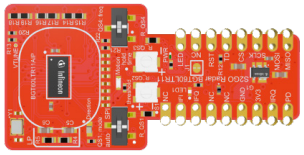
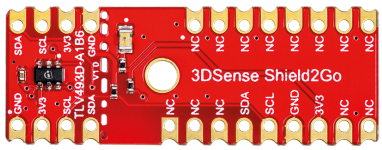
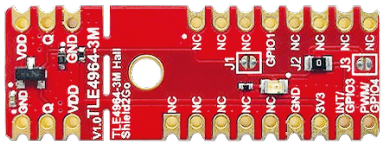
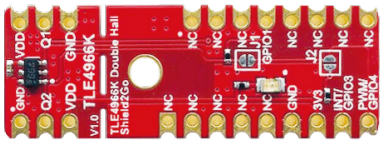

| Product | Description | OPN No. |
|---|---|---|
| KIT_CSK_BGT60TR13C | Connected sensor kit (CSK) featuring XENSIV™ BGT60TR13C 60 GHz radar sensor Wing board | KITCSKBGT60TR13CTOBO1 |
| KIT_CSK_BGT60UTR11AIP | Connected sensor kit (CSK) featuring XENSIV™ BGT60UTR11AIP 60 GHz radar sensor Wing board | KITCSKBGT60UTR11AIPTOBO1 |
| KIT_CSK_BGT60CUTR13 | Connected sensor kit (CSK) featuring XENSIV™ BGT60CUTR13AIP 60 GHz CMOS radar sensor Wing board | KITCSKBGT60CUTR13TOBO1 |

**Click here to learn more:**
www.infineon.com/gas-sensors

# Shield2Go

## Infineon's Shield2Go boards offer a unique customer and evaluation experience

The boards are equipped with one Infineon IC and a ready-to-use Arduino library. Customers can now develop their own system solutions by combining Sensor2Go boards together with Infineon MyIoT adapters. MyIoT adapters are gateways to external hardware solutions like Arduino and Raspberry Pi, popular IoT hardware platforms. All this enables the fastest evaluation and development of the IoT system.

| | | |
|---|---|---|
|  | **Product name:** BGT60LTR11AIP Radar Shield2Go<br>**Sales name:** S2GO RADAR BGT60LTR11<br>**Ordering code:** SP005594890 | Product information |
|  | **Product name:** DPS368 pressure sensor Shield2Go<br>**Sales name:** KIT_DPS368_2GO<br>**Ordering code:** SP005729572 | Product information |
|  | **Product name:** TLE493DW2B6 3D Sense Shield2Go<br>**Sales name:** S2GO_3D_TLE493DW2B6-A0<br>**Ordering code:** SP004308594 | Product information |
|  | **Product name:** TLV493D 3D Sense Shield2Go<br>**Sales name:** S2GO_3D-SENSE_TLV493D<br>**Ordering code:** SP001823678 | Product information |
|  | **Product name:** TLE4964-3M Hall Sense Shield2Go<br>**Sales name:** S2GO_HALL_TLE4964-3M<br>**Ordering code:** SP004308590 | Product information |
|  | **Product name:** TLE4966K Double Hall Sense Shield2Go<br>**Sales name:** S2GO_2_HALL_TLE4966K<br>**Ordering code:** SP004308598 | Product information |

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www.infineon.com/pressure-sensors www.infineon.com/mems-microphones www.infineon.com/radar-sensors

# Shield2Go

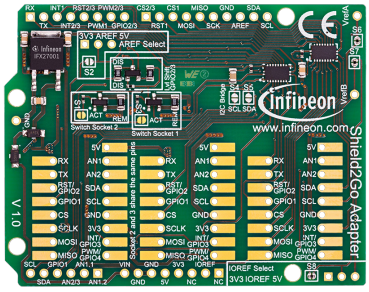
## Microcontroller



**Product name:** XMC1400 2Go kit
**Sales name:** KIT_XMC14_2GO
**Ordering code:** SP006065576

Product information

## MyIoT Adapter

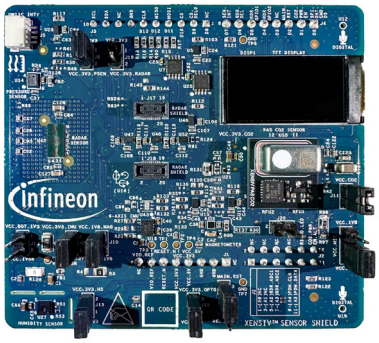



**Product name:** MyIoT Adapter
**Sales name:** MY IOT ADAPTER
**Ordering code:** SP002434972

Infineon's Shield2Go boards offer a unique customer and evaluation experience – the boards are equipped with one Infineon IC and a ready-to-use Arduino library. Customers can now develop their own system solutions by combining Shield2Go boards with Infineon MyIoT adapters.
MyIoT adapters are gateways to external hardware solutions like Arduino and Raspberry Pi, popular IoT hardware platforms. This enables the fastest evaluation and development of IoT systems.

Product information

## XENSIV™ Sensor Shield




**Product name:** XENSIV™ Sensor Shield
**Sales name:** SHIELD_XENSIV_A
**Ordering code:** SP006018677

Infineon's XENSIV™ Sensor Shield provides seamless hardware compatibility between sensors, microcontrollers, and connectivity products. When paired with an MCU / Wi-Fi baseboard via the Arduino UNO interface, the board enables developers to quickly evaluate and develop with environmental sensors like:

- 60 GHz radars
- PDM microphones
- Pressure sensors
- Six-axis IMU
- Three-axis magnetometer
- Temperature and humidity

The shield also features a TFT display (80x160), and OPTIGA™ Trust-M secure element, and a QWIIC connector for additional peripheral expandability.

Product information

**Click here to learn more:**

www.infineon.com/magnetic-position-sensors
www.infineon.com/current-sensors
www.infineon.com/gas-sensors
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www.infineon.com/radar-sensors

# Sensor2Go kits

## Affordable plug-and-play development boards

Sensor2Go kits come equipped with advanced sensors and an integrated Arm® Cortex®-M0 CPU, making them the perfect choice for developers and hobbyists. These kits include a complete set of on-board devices, such as an on-board debugger, allowing you to quickly build and customize your own applications and gadgets.

**Absolute Pressure (MAP and BAP) Sensor2Go kits**

| Product name: | Ordering code: |
|---|---|
| KP215F1701-PS2GO-KIT | SP002676652 |
| KP229E3518-PS2GO-KIT | SP002676656 |
| KP236-PS2GO-KIT | SP002676664 |
| KP254-PS2GO-KIT | SP002676664 |
| KP276-PS2GO-KIT | SP005910372 |

Product information

**Magnetic 3D Sensor2Go kits**

| Product name: | Ordering code: |
|---|---|
| TLE493D-W2B6 MS2GO | SP001707578 |
| TLV493D-A1B6 MS2GO | SP001707574 |

Product information

**Magnetic angle Sensor2Go kits**

| Product name: | Ordering code: |
|---|---|
| TLE5012B_E1000_MS2GO | SP002133956 |
| TLI5012B_E1000_MS2GO | SP002133960 |
| TLE5012B_E5000_MS2GO | SP002133964 |
| TLE5012B_E9000_MS2GO | SP002133968 |

Product information

**Current Sensor2Go kits**

| Product name: | Ordering code: |
|---|---|
| TLI4971_MS2GO | SP005345474 |
| TLE4973_MS2GO | SP006039680 |

Product information

**Magnetic speed Sensor2Go kits**

| Product name: | Ordering code: |
|---|---|
| TLE4922 MS2GO | SP003029974 |

Product information

**Magnetic switches Sensor2Go kits**

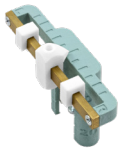
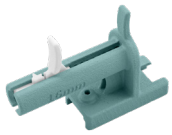
| Product name: | Ordering code: |
|---|---|
| TLE4966_MS2GO | SP005406992 |

Product information

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www.infineon.com/current-sensors
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www.infineon.com/mems-microphones
www.infineon.com/radar-sensors

# Add ons for Sensor2Go kits and Shield2Go

| | | |
|---|---|---|
|  | **Joystick for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** JOYSTICK FOR 3D 2 GO KIT<br>**Ordering code:** SP001491834 | Product information |
|  | **Rotate knob for all 3D magnetic Sensor2Go kits, angle Sensor2Go kits and 3D magnetic sensor Shield2Go**<br>**Product name:** ROTATE KNOB 3D 2 GO KIT<br>**Ordering code:** SP001504602 | Product information |
|  | **Linear slider for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** LINEAR-SLIDER 2GO<br>**Ordering code:** SP002043034 | Product information |
|  | **Out of shaft adapter for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** OUT OF SHAFT FOR 3D 2 GO<br>**Ordering code:** SP003475178 | Product information |
|  | **Linear control trigger for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** POWER_DRILL2GO<br>**Ordering code:** SP005350194 | Product information |
|  | **Human machine interface (HMI) direction indicator for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** DIR_INDICATOR2GO<br>**Ordering code:** SP005350196 | Product information |
|  | **HMI mini control with 4 directions and 360° rotation for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** MINI_CONTROL2GO<br>**Ordering code:** SP005350192 | Product information |

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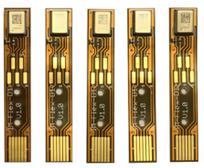
# Add ons for Sensor2Go kits and Shield2Go

| | | |
|---|---|---|
|  | **OpenClose adapter for Hall switch Shield2Go**<br>**Product name:** OPENCLOSE2GOHS<br>**Ordering code:** SP005544849 | Product information |
|  | **Play2Go for 3D magnetic sensor**<br>**Product name:** 3D PLAY2GO KIT<br>**Ordering code:** SP005731811 | Product information |
|  | **Contactless switch array for all 3D magnetic Sensor2Go kits and Shield2Go**<br>**Product name:** Contactless switch array<br>**Ordering code:**<br>Simply use our 3D printing files, link to, and start your 3D print. | Product information |
|  | **Spindle2Go for all 3D magnetic sensor Shield2Go**<br>**Product name:** SPINDLE2GO<br>**Ordering code:** SP005989689 | Product information |
|  | **Drill Trigger V2 for all 3D magnetic Sensor2Go kits**<br>**Product name:** DRILL TRIGGER V2<br>**Ordering code:** SP006066136 | Product information |

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www.infineon.com/pressure-sensors
www.infineon.com/mems-microphones
www.infineon.com/radar-sensors

# Evaluation boards – for simple and easy evaluation



**MEMS microphones flex evaluation kits**

| Product name: | Ordering code: |
|---|---|
| EVAL_IM69D120_FLEXKIT | SP002153026 |
| EVAL_IM69D130_FLEXKIT | SP002153022 |
| KIT_IM66D130MV01_FLEX | SP006038060 |
| KIT_IM66D132HV01_FLEX | SP006038061 |
| KIT_IM68A130V01_FLEX | SP005728206 |
| KIT_IM68D121JV01_FLEX | SP006155584 |
| KIT_IM68D128BV01_FLEX | SP006114517 |
| KIT_IM69D127V11_FLEX | SP005403891 |
| KIT_IM69D128SV01_FLEX | SP005744505 |
| KIT_IM69D129FV01_FLEX | SP006038667 |
| KIT_IM70A135V01_FLEX | SP005728204 |
| KIT_IM70D122V01_FLEX | SP005826638 |
| KIT_IM72D128V01_FLEX | SP005429924 |
| KIT_IM72D128VV01_FLEX | SP006038668 |
| KIT_IM73A135V01_FLEX | SP005415695 |

Product information

**MEMS microphones Audiohub Nano boards**

| Product name: | Ordering code: |
|---|---|
| EVAL AHNB DIGITALV01 | SP005955184 |
| EVAL AHNB ANALOGV01 | SP005568087 |

Product information

**Current sensors evaluation boards**

| Product name: | Ordering code: |
|---|---|
| TLE4973 EVAL 120A | SP006015313 |
| TLE4973 EVAL INLAY | SP005853842 |
| TLE4973 EVAL STD PCB | SP005853840 |
| TLE4973 EVAL VER BAR | SP005853847 |
| TLE4973 EVAL LAT BAR | SP005853844 |
| TLE4972 EVAL LAT BAR | SP005632140 |
| TLE4972 EVAL STD PCB | SP005632136 |
| TLE4972 EVAL INLAY | SP005632138 |
| TLI4971 EVAL 120A | SP005876845 |
| TLE4971 EVAL 120A | SP005343588 |

Product information

**Linear sensors evaluation boards**

| Product name: | Ordering code: |
|---|---|
| TLI5590 SATELLITE | SP005857647 |
| TLI5590 EVAL KIT | SP005857645 |

Product information



**Magnetic position sensors evaluation boards**
**Product name:** GAME CONTROLLER
**Ordering code:** SP006056290

Product information

**Position sensors evaluation boards**

| Product name: | Ordering code: |
|---|---|
| TLI49012 EVAL KIT* | SP006227376 |

Product information

**Click here to learn more:**

www.infineon.com/magnetic-position-sensors
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www.infineon.com/radar-sensors

* Coming soon

## Choose the best fit magnetic sensor solution from the broadest portfolio

Our sensor simulation tools allow you to compare products in application conditions. The tools are easy-to-use and will guide you in identifying the most suitable Infineon XENSIV™ sensor combined with the best-fit magnet.



Current sensor

**XENSIV™ current sensors simulation tool**
Define and optimize your system's current sensing structure. The tool supports the design of lateral and vertical insertions for PCB (two to ten-layer stack) or bus-bar-based applications. The simulation will provide insertion resistance, field transfer factor, sensitivity range, measurement range, and power dissipation, as well as cross-talk in a three-phase system.

Try it out



3D sensor

**XENSIV™ 3D sensors simulation tool**
3D magnetic field sensor for smaller, more accurate, and robust designs. The sensor family, with low current consumption and cost-optimized design, specifically addresses the needs of new magnetic sensor applications in consumer, industrial, and automotive. They are ideally suited for measuring three-dimensional movement within a magnetic field, linear slide movement, and 360° angle rotation.

Try it out



Switches and latches

**XENSIV™ switches and latches simulation tool**
Discover Infineon’s broad energy-saving portfolio of Hall switches and latches in the smallest package. Simulate your Hall switch applications and see the results in an accurate simulation of the magnetic field and the switching behavior of the Hall switch in the application.

Try it out



Angle sensor

**XENSIV™ angle sensors simulation tool**
Highest variety - low end to high end, standardized and specialized in all four magnetic technologies: Hall, GMR, AMR, and TMR. This tool calculates the valid distance from the magnet surface to the sensor and the assembly error, given certain parameters: magnetic properties, sensor specification, and assembly tolerances.

Try it out



Magnetic speed sensor

**XENSIV™ magnetic speed sensors solution tool**
Infineon’s innovative speed sensor solution tool will provide a sensor recommendation for your tooth wheel and back bias magnet geometry. The sensors are ranked according to their expected maximum air gap capability. Customer constraints like enhanced stray field immunity, the necessity for a direction channel, or the sensor interface are considered in the selection process.

Try it out



Magnetic position sensors

**XENSIV™ magnetic position sensors design tool**
Infineon's innovative design tool covers some typical applications which can be addressed with 3D, angle or linear magnetic sensors:
– Angle measurement (rotational movement of the magnet)
– Linear position measurement (linear movement of the magnet)
– Joystick (3D movement of the magnet)
– Additionally: stray field consideration

The tool provides pre-defined or user-customized magnets. The tool automatically calculates the magnetic field components at the sensor location. Calculation is based on the sensor arrangement defined by the user. Mechanical mounting tolerances of the sensor and the magnet are considered.

Try it out

**Click here to learn more:**

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# ISO 26262 – Functional Safety (FuSa)

## Dependable electronics based on Functional Safety

Automotive Functional Safety – we simplify the process of integrating safety features with our safety guidelines and services.

Infineon provides dependable electronics to support today's safety-relevant systems and future fail-operational solutions, serving as essential components that allow customers to meet their safety requirements at the application level. Highly integrated systems equipped with reliable electronic semiconductors play a crucial role in key application areas like connectivity, electromobility, and advanced levels of automated driving. The ISO 26262 standard establishes requirements and provides guidance for integrating products into automotive safety applications.

**Discover Infineon's products with ISO 26262 classification**

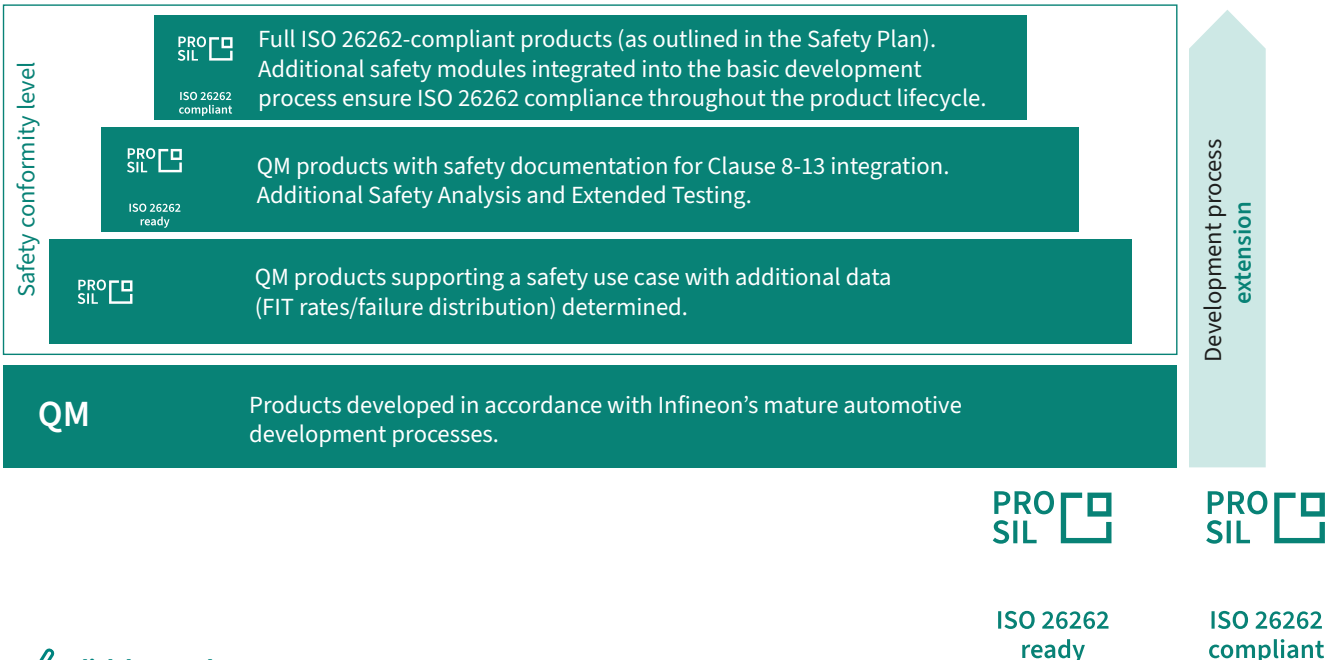
With our holistic approach to functional safety, Infineon is addressing the increased complexity and stringent requirements that make functional safety projects costly and time-consuming. We provide the necessary products, including documentation and supporting information, to ease integration and reduce efforts for system integrators.

**Benefit from:**

- Innovative solutions for automotive safety-related applications
- Improved time-to-market through comprehensive safety documentation for ISO 26262-compliant products
- Reduced integrators' efforts with ISO 26262-compliant and ready-to-use products
- A broad portfolio of ISO 26262-compliant products already available
- Newly developed automotive parts that will primarily follow an ISO 26262-compliant development flow

**Safety conformity levels:**

- PRO-SIL™ ISO 26262-compliant devices meet all relevant requirements for semiconductors as defined in the ISO 26262 series of standards for automotive functional safety
- The PRO-SIL™ ISO 26262-ready marking designates QM devices that can be integrated into a safety-related application by utilizing the ISO 26262:2018 Clause 8-13, Class II hardware evaluation framework
- The Infineon Automotive Ensured Compliance process framework was certified by SGS-TÜV Saar for compliance with ISO 26262:2018 as of April 2022. This certification reinforces our commitment to automotive functional safety




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# Dependability is the key driver for the megatrend towards autonomous driving

The future car will be fully connected and always online. It will be all-electric and autonomous. At Infineon, we believe that realizing this vision requires both technology and trust.

The growing demand for safe electronic systems in vehicles that drivers and passengers can rely on lays the foundation for trust and drives progress toward higher levels of automated driving.

Earning the trust of tomorrow's passengers begins with dependable electronics that enable highly available, reliable, robust, safe, and secure systems, capable of operating in all conditions.

Infineon is your trusted partner, offering all the essential components for your dependable systems – automotive quality, functional safety, cybersecurity, innovative products, system expertise, and operational excellence.

**Dependable electronics for safer, smarter vehicles**

As vehicles become increasingly reliant on electronic components, demand for safe, reliable systems continues to grow. Rising levels of automated driving especially depend on drivers' and passengers' trust in the quality and reliability of each component. The complexity and requirements in the automotive industry are expected to increase further, particularly in terms of quality and dependability, to ensure vehicles operate safely and smoothly throughout their 15-year lifespan.

Infineon's commitment to delivering high-quality, dependable products has resulted in a portfolio that offers superior performance and unmatched durability, driven by our zero-defect mentality. We go beyond industry standards to meet the real-world requirements of applications.

Enhance your automotive systems and applications with our high-quality semiconductor components designed for your needs.

**Dependable electronics based on quality**
Automotive quality beyond the standards with a zero-defect mindset.
Vehicle complexity and functionality will continue to grow, driving the need for dependable electronics, with quality being one of its key ingredients. Our passion for quality creates a product portfolio that meets high standards and delivers highly reliable, robust products.

**How Infineon differentiates as a quality leader:**

1. Our goal is to go beyond standards to better meet real application requirements: from intensive screening methods to detect production defects, to advanced AEC Q100/101 tests (where required), to sub-1 dpm validation aimed at achieving ultralow defect rates.
2. Our track record of achievements, including multiple quality awards from customers such as Toyota (Honor Quality Award in 2020) and Continental (Supplier of the Year in 2019), demonstrates that we consistently meet and exceed outstanding quality targets in the automotive industry.
3. Infineon offers best-in-class customer service, supported by a regional network of failure analysis labs, strong localized expertise, technical training programs, and state-of-the-art regional quality analysis labs equipped for advanced failure analysis.
4. We meet customer needs through industry-leading product requirements, design, manufacturing, and testing practices. Quality is integrated into our development processes (e.g., RDDF), design rules (e.g., ADeGo), materials, manufacturing processes, process controls, proprietary testing, and screening methods.

**Infineon's Zero Defect mentality is built upon:**

- Producing 24/7/365 at sub-dpm levels: Translated into a year's timeline, this means we deliver zero defects for all but the last three seconds of the year.
- Delivering sub-ppm quality levels.
- Achieving Zero Defect status for 90 percent of our products.

We go beyond the standards to better meet real application requirements.

**Click here to learn more:**

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# Infineon support for sensors

## Useful links and helpful information

**Further information, datasheets, and documents**

www.infineon.com/xensiv
www.infineon.com/sensors
www.infineon.com/tof-3d-image-sensors
www.infineon.com/current-sensors
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www.infineon.com/h2-sensors
www.infineon.com/inductive-position-sensors
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# Infineon powerful support

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# Infineon customized solutions

## Your specific needs, realized

A customized solution (commonly known in the industry as an ASIC — Application Specific IC, or CSP — Customer Specific Product) is designed, planned, developed, and used for a specific purpose. Its mission is to be optimized and efficient, with all the required functionalities and features for a specific application for a single customer.

## Infineon as your one-stop-shop from design to delivery

Infineon, as a market leader in customized solutions, believes innovation comes through collaboration and exploring new paths. Working closely with our customers, understanding their needs, and combining their needs with our cutting-edge solutions, we know there is always a benefit for every customer and application. Whether the challenge is related to IP or BOM constraints or requires higher integration, an ASIC can be the solution. Furthermore, customers benefit from Infineon's trusted quality, supply guarantee, and experience, combined with additional advantages such as IP protection and a well-established partner network.

**Click here to learn more:**
**www.infineon.com/asic**



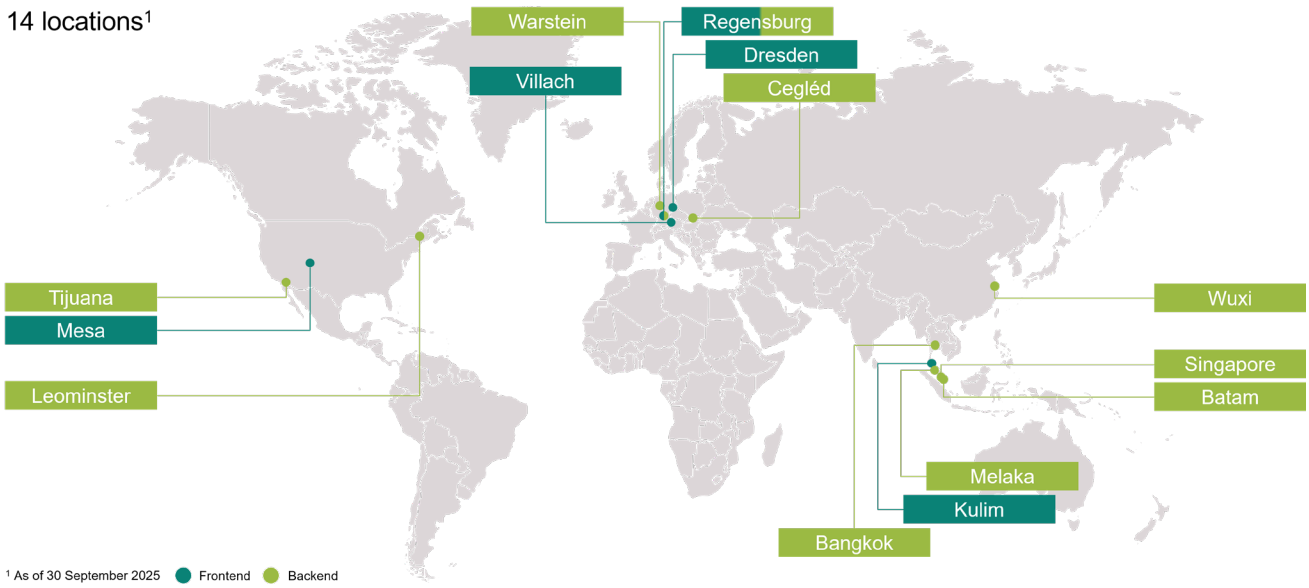
## A process streamlined through efficiency, expertise, and experience

The journey starts with you and a focus on feasibility – we match your needs early on with our 40 years of expertise in building world-class, industry-leading semiconductors and ensure the successful implementation of your requirements.

## From technology advantage to supply stability

Whether it is digital, analog, or mixed-signal devices, an embedded processor, or integrated sensors, we have the experience and product know-how. Being one of the largest semiconductor companies, we also have a vast array of IPs. We can integrate almost anything into your chip from our wide variety of sensors, discrete devices, drivers, and many more, including support for higher voltage levels. Our in-house fabrication facilities and design centers around the globe are known for the highest quality standards. We also have well-established partnerships with all major silicon foundries and assembly test fabs to complement our in-house technologies. At every step along the way, we take pride in the highest quality Infineon is known for.

If you are interested and would like to find out further information, visit **www.infineon.com/asic**




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# The Infineon Partner Program

## Together we create and innovate for our customers' success

Find solutions from our partners to accelerate your next business opportunity. Infineon's global network of partners is an expert in designing products, solutions, and services leveraging Infineon components in 5 key domains: software, hardware, services, tools, and end applications.

The Infineon Partner Program is a global ecosystem of qualified companies, offering knowledge and experience to enable and implement Infineon products. Our associated, preferred, and premium partners help design your device and application based on our components. They have been carefully selected by us on the basis of their competence and ability to design and deliver strong and trustworthy solutions, especially for new technologies and use cases.

| Hardware | Software | Tools | Services | End applications |
|---|---|---|---|---|
| Partners manufacturing electronic components, demo boards, and turnkey modules | Partners programming various types of software, algorithms, and operating systems | Partners designing computer programs for the development of embedded systems | Partners providing cloud and engineering services, application support or trainings | Partners creating end products and related applications |
| ... jointly we create and commercialize value-added solutions, while reaching new buyers | ... jointly we enhance our portfolio with complementary components and expand technology know-how | ... jointly we enable a complete and immersive development experience for customers | ... jointly we build up engineering capabilities and offer them to a world class customer network | ... jointly we provide customers with state-of-the-art solutions and innovative use cases |

**Find out more about the Infineon Partner Program, the latest news and solutions from our partners, and much more on our Partner ecosystems webpage.**

Looking for a specific partner solution in your region? Our partner finder provides an overview of our partners and their offerings. Simply specify your search in the dropdown menu and browse through the companies and their solutions to navigate directly to the respective website for further information.

Additionally, use the "Partner solutions" tab on our product and application pages to find out more about Infineon's partner solutions.

**Click here to learn more:**
**www.infineon.com/partners**

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