

# 06/19

## Issue Preview

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“Automotive & Transportation” in July:

- Components
- Power
- Electromechanics
- Systems
- Tools & Testing

Hüthig Elektronik Medien Gruppe

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# EDITORIAL PREVIEW

## Components

### Design guide for Lidar

Many designers believe that APD sensors offer the best combination of price and performance, but Lidar system manufacturers should also take other factors into account when choosing their sensor supplier.

### Measuring current with no toroidal core

One primary application for current sensors is the measurement of phase current in electric motors. Now it's possible to measure current without a toroidal core, thus saving space and weight.

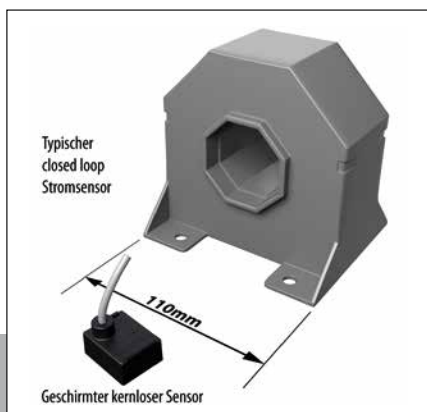
### Migration from USB 2.0 to USB 3.1. in infotainment

With the demand for ever more bandwidth in vehicles, USB 3.1 is becoming a standard offering the required prerequisites for high data rates and low indexing times in infotainment systems. The article gives an overview of design recommendations and helps developers implement USB 3.1 in their designs.

## Power

### DC/DC power modules for rail applications

High demands with respect to heat, mechanical properties and service life pose a major challenge to power modules for rail applications. For example:



PKE7000A modules offer precisely these qualities for onboard deployment. The modules meet the EN50155 standard and offer an MTBF of up to five million hours.

### PCIM 2019

The editorial team visited the PCIM Europe 2019 trade fair and reports on the power highlights in the areas of transportation and automotive.

### Fuses Industrial and Automotive

With the new Automotive Standard for fuses, developers no longer have to rely on industrial fuses or check service life requirements with individual manufacturers. This article describes challenges and solutions from the Automotive sector in which fuses from the industrial sector meet their limits, and it provides help in choosing the best possible solutions available – from comfort systems to electric drives.

## Electromechanics

### Direct plug-in technology up to 1000 V

Failsafe operation is the top priority in railway infrastructure, particularly in train control technology. Terminal blocks with push-in connection now commonly used in many industrial areas, offer many advantages for wiring the corresponding sensors in indoor and outdoor systems. They are becoming more and more popular because the time and effort required for wiring is massively reduced by the direct plug-in technology. Connections also require less maintenance and have a longer life. Many maintenance and commissioning situations can be mapped using extensive accessories. The rated voltage range is now at max. 1000 V.



### Plug and socket connectors for off-road vehicles

The requirements in agricultural machine technology are considerably higher than in the automotive sector. What connector solutions are coming through here in the areas of communication and power – both in the vehicle itself and for communicating with other elements such as trailers, for example? The article supplies the answers.

## Systems

### Digital Automotive Services

How the use of methods from Artificial Intelligence, big data and cloud computing technologies is enabling whole new approaches to be adopted to the development of new mobility services.

## Tools & Testing

### Testing complex systems in all phases of development

In a connected aircraft, it is not enough to be able to guarantee that individual LRUs will work correctly; rather the functionality of all LRUs in the entire system must also be guaranteed. One approach for achieving this is Shift Left testing for software and systems – in other words testing earlier in the life cycle.

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