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Preventive maintenance

## Integrated sensors reduce downtimes

Railway operators are increasingly demanding integrated status monitoring for preventive maintenance. That is why, in addition to the straightforward measured values, sensors provide additional information such as status and error messages.

Lenord + Bauer is presenting its new i<sup>3</sup>SAAC product concept at InnoTrans. It offers integrated, intelligent and interactive sensors, autonomous actuators and controllers. This means that in future products will not only pass on measured values or perform movements, but provide functions and information as well. Using a camouflaged prototype of a speed sensor, the company demonstrates what this can look like at component level in a sensor configuration. The focus is essentially on the many added-value functionalities and their transmission options.

On railway rolling stock, Lenord + Bauer integrated sensors are already becoming increasingly important for predictive maintenance. As well as rotational speed, these acquire e.g. vibration and temperature on rolling stock wheel sets. All measurement elements are accommodated in a single housing and pass data via cable to the higher-level bogie monitoring control system. There, using the sensor signals, messages regarding possible damage to the wheel tyre or bearing are generated and evaluated.

The possibilities for the future are largely dependent on the requirements of the railway operators. The trend towards integrated, intelligent and interactive systems, though, is now unstoppable.

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Figure 1: The camouflaged prototype



Figure 2: Integrated sensors - all measurement elements in a single housing.

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**About Lenord, Bauer & Co. GmbH:**

We are an internationally active specialist for motion sensors and integrated drive technology. We develop, produce and distribute solutions for mobility industry (with focus on railway industry) and machinery (with focus on machine tools and packaging machine applications).

Lenord + Bauer has positioned itself as a solutions provider with high technical advisory expertise and specialist knowledge in the customer application.

Lenord + Bauer is certified according to DIN EN ISO 9001 and 14001, as well as IRIS.