

Contact us

YOUR PARTNER FOR SAFETY



Customer-oriented // Whether standard or special - we have the suitable system. Flexibility is very important to us - we are always at your side as a competent and reliable partner with many years of practical experience and immediate delivery capability.



Team // Behind the name ZÖLLNER stands a team of over 180 employees in Kiel. Development, Production, Training, Sales, Order Processing and After-Sales – at ZÖLLNER everything is under one roof.



24/7 Support // Our 24/7 support hotline is there for you around the clock. Experienced technicians advise you on problems or provide on-site support, if required.



Academy // With our own training centre, the ZÖLLNER Academy, we are a recognised training provider in Germany and offer practical training. In our best equipped Academy or directly at your site - our training brings you up to date and conveys the safe handling of our components.

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Safety „Made in Germany“

ZGP - ZÖLLNER Speed Detection Unit

SPEED MONITORING // COMPONENT SWITCHING



Speed monitoring // Switching components **ZGP AND ZGP MOBILE**

Basic functions

The ZGP uses a wheel sensor to determine the speed of a passing rail vehicle and compares the measured value with the maximum allowed speed. If the maximum allowed speed is exceeded, the system initiates the activation of the track magnet for emergency braking.

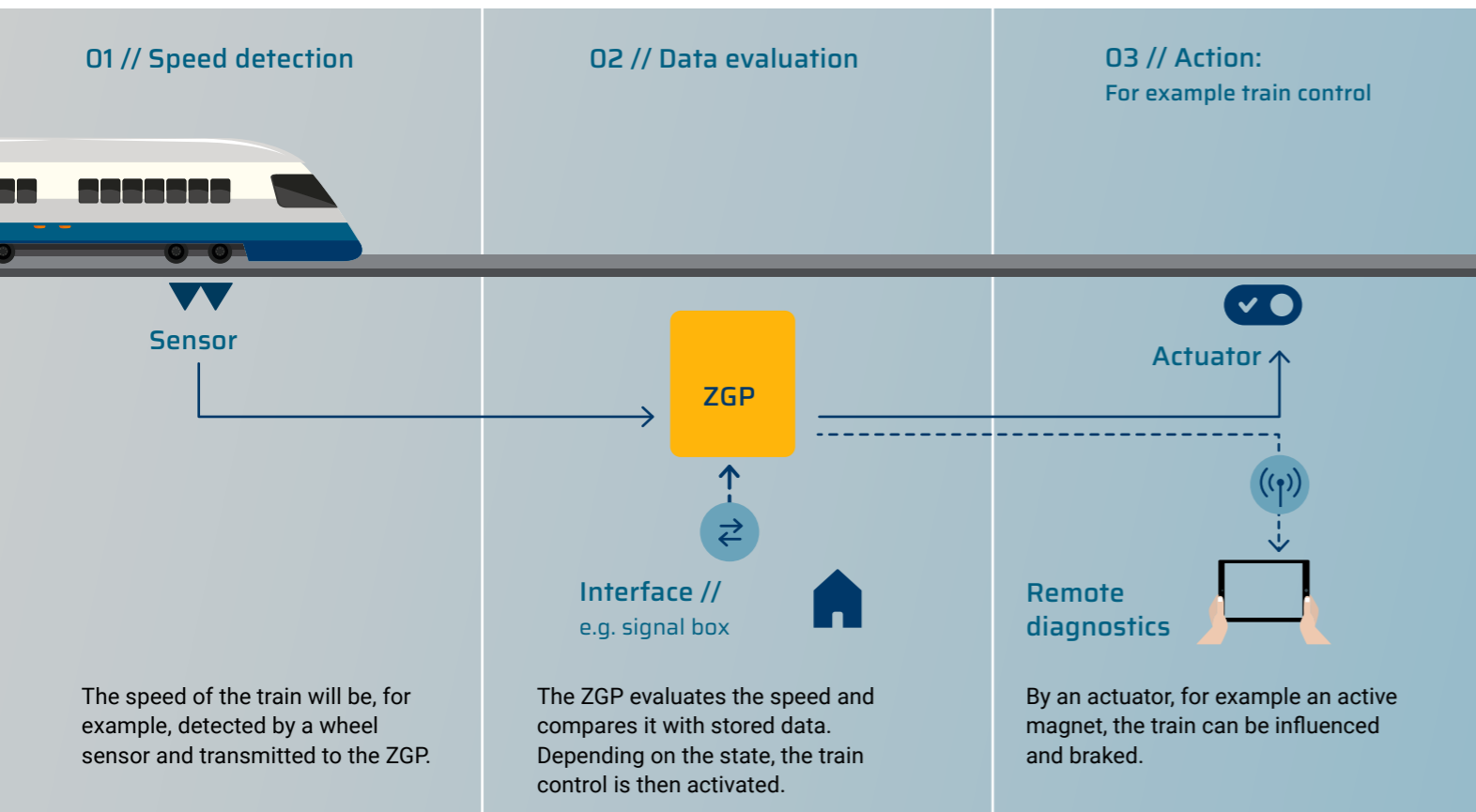
- » **Only one magnet necessary**
- » **Compact design**
- » **Adaptable solution**
- » **Fixed & mobile application**

Fail-safe

The system concept ensures a safe behaviour to minimise failure risks.

Device Management

Devices and device data can be managed easily and from any location. Remote monitoring via GSM/-R or in the future, for example, via the ZCloud offer the user a comprehensive analysis tool. Data transfers to existing systems including the interface are customisable.



The graphic shows the structure of the system as a velocity testing device with sensor, evaluation and actuator. Other interfaces are possible, for example to the interlocking and for remote diagnostics.

Possibilities and examples of application

Speed Detection Unit

Mainline / Branch Line // Light Rail // The system based on the fundamental principle of speed testing has been successfully in use for 10 years. The behaviour of the active magnet, permanently active or inactive, and the corresponding switching of the respective state can be realised in the same way. Interfaces to existing systems can be customised.

Worksites // With the ZGP mobile, worksites or temporarily restricted sections of road can be additionally secured. The mobile application can be used as monitoring or a testing device. It also can be switched depending on other components.

Back-Up System

Since the ZGP can act independently, another possibility is the use as a back-up for a higher-level safety/control system such as ETCS or CBTC.

Train control on the basis of alternative sources of information

A variant without speed measurement enables the processing of information from the interlocking, for example, and can switch the actuator independently of this.

Speed evaluation

The ZGP is also suitable for applications where only the speed is to be measured but the rail vehicle is not to be influenced. Examples are the activation of a warning when entering a blocked track and the monitoring of the speed during the measuring process of dynamic track scales. Another field of application of the ZGP are timely, speed-dependent announcements or optical signalling by means of detection of approaching trains.



Real-time monitoring

Keep an eye on device data, system states and location information in real time and everywhere.



Notifications & Alarms

Timely notification and alarming of critical device and system conditions, for example faults or low battery levels.



Norms & Standards

Development and implementation taking into account European and International norms and standards.



We would be happy to work with you to develop further individual solutions - please contact us at any time.
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