

Press Message

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Ready for the digital age of rail - InnoTrans 2018: Pilz presents comprehensive Industrie 4.0 solutions for the rail industry

Ostfildern, 01.08.2018 - **At InnoTrans 2018, from 18-21 September 2018, automation systems provider Pilz will present its comprehensive solution offerings for digitalisation on trains and railway lines. Beyond control system solutions with the PSS 4000-R automation system, Pilz offers complete solutions up to and including completely pre-wired control cabinets. On September 21, as part of the InnoTrans Convention, Pilz will present ideas in the "Innovative paths 4.0 - VDB future workshop" on the topic of "Industrie 4.0 - Rail 4.0: Opportunities for mid-sized companies".**

Solutions by Pilz can be used in applications up to the highest safety integrity level - SIL 4, meet CENELEC's normative requirements, and support the open RaSTA protocol.

Industrial automation technology at the railway level

To contribute to the modernisation and expansion of railway infrastructure, Pilz is investing in open, industry-proven automation technology. At InnoTrans, Pilz uses models to show how railway crossings or switch controllers can be automated with the PSS 4000-R automation system. The PSS 4000-R monitors areas on railways crossings such as barrier operation and end positions, the space between the barriers, switch end positions, connections and signals.

The system consists of universally applicable control systems that have already been tested in rail operations and are robust with regard to electromagnetic faults, extreme temperatures and mechanical stress. Software tools also provide support for planning and operation: In Berlin, Pilz will present the PAS4000 software platform for creation, configuration and parametrisation and the web-based PASvisu visualisation solution for system operation, monitoring, analysis and maintenance at a glance – even remotely. This allows users to accelerate their projects, from engineering to runtime to maintenance. Advantage: Fast detection and localisation of errors and faults.

Networked, but still protected

As we approach Track 4.0, the issues of networking and security play an important role. At InnoTrans, Pilz will present a monitoring solution that consists of the PSS 4000-R automation system, the PASvisu visualisation software and the IIoT gateway Revolution Pi. The IIoT gateway sends control data such as vibrations, temperatures, power consumption and times to the operator's cloud. This gives the operator worldwide access, so that - based on this data - he can for instance determine when maintenance must next be carried out.

Pilz SecurityBridge offers the necessary protection from manipulation and unauthorised access to control systems. Unlike generic firewalls, SecurityBridge requires no complex configuration; it is easy to commission using the plug-and-play principle.

Sensors with multifaceted capabilities

Securely regulated access to danger points and zones, as well as access protection, requires reliable sensors. Based on a safety gate model, Pilz will display various sensor technologies at InnoTrans: Among them are safety switches and entire safety gate systems for monitoring positions and guards. Optical and tactile sensors such as light curtains, camera systems and dynamic pressure sensitive mats are suited to monitoring areas or spaces and thus offer multifaceted fields of use not only for workshops, but also on or near rail vehicles.

“Pilz is the right partner for standardised, safe industrial components and systems for railway technology. Modular hardware and very simple programming make our solutions highly flexible. That is why rail customers from all over the world are investing in our components and systems in a wide range of applications. In more than 50 countries, we offer customer-oriented solutions for the rail industry,” says Susanne Kunschert, Managing Partner at Pilz.

At InnoTrans 2018, you will be able to find Pilz in Hall 6.2 at Stand 214.

You can find out more about our exhibition appearance at: <https://www.pilz.com/de-DE/innotrans>



Caption: The PSS 4000-R automation system is used throughout Europe to secure railways crossings (with or without barrier protection), for example, and assumes control and safety tasks.

You can find texts and images at <http://www.pilz.com> also for downloading. To go directly to the relevant internet pages in the press centre, enter the following **Web code** in the search of the home page.: **196322**

The Pilz Group

The Pilz Group is a global supplier of products, systems and services for automation technology. Based in Ostfildern, near Stuttgart, the family-run company employs around 2,500 people. With 42 subsidiaries and branches around the world, Pilz supplies safe solutions for people, machinery and the environment. The technology leader offers complete automation solutions comprising sensors as well as control and drive technology - including systems for industrial communication, diagnostics and visualisation. Consulting, engineering and training round off its international range of services. In addition to mechanical and plant engineering, solutions from Pilz are used in many sectors such as wind energy, railway technology and robotics.

Pilz in social networks

In our social media channels we give you background information concerning the company and the people at Pilz, and we report on current developments in Automation Technology.



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