

Press Message

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Safe, modular railway control system PSSrail from Pilz is a pioneer for the digital railway - Safe, modular and digital control

Ostfildern, 08.08.2024 - **With PSSrail, the automation company Pilz is presenting a safe, modular railway control system for the digital railway. The system has railway approval, meets safety requirements up to SIL 4, is compatible with the EULYNX standard and is modular, and therefore flexible to use. The innovative character of PSSrail lies in the combination of these functions: The system combines all the functions needed to fulfil existing or future control tasks on the line. PSSrail enables system suppliers and integrators to implement digitisation projects in signalling and railway infrastructure simply, quickly and therefore economically.**

The safe, modular railway control system PSSrail is modular in design. It consists of the actual controller, suitable for SIL 4, as well as various hardware modules, including a CAN module for simple integration of existing systems. PSSrail also has a software suite for programming or configuration of user programs. Railway-certified function blocks are stored in a program library, enabling simple, faster implementation. Thanks to this building-block principle, users can design their solutions to suit their needs.

Economical thanks to standardisation and openness

PSSrail focuses on standardisation and openness. The control system is compatible with the latest EULYNX standard, thus paving the way for the implementation of digitisation projects. Pilz has developed the railway controller as a COTS product (commercial off-the-shelf). As such, users receive a product that is ready to use and can minimise their obsolescence management.

Pioneer for the digital railway

System suppliers and integrators can use PSSrail for the most varied signalling applications, including electric locally operated points or level crossings, as well as in digital interlockings. In this case, for example, PSSrail can be used as an Object Controller Platform, so that control of the field components along the track is digital, and therefore reliable and economical.

PSSrail provides a control solution that enables digitisation to be carried out while operations are ongoing and, for example, enables an upgrade to the EULYNX standard. Operators can modernise obsolete, relay-controlled interlockings gradually, increasing the reliability and efficiency of rail transport. The retrofit time is reduced thanks to standardisation and openness, which brings a considerable cost saving.

“With the safe, modular railway controller PSSrail we are setting new standards in digitisation of the railway infrastructure”, explains Sebastian Lüke, Head of Business Unit Rail at Pilz. “With PSSrail, system suppliers and integrators now have a tool they can use to implement the necessary rail digitisation economically and flexibly.”

Pilz at Innotrans 2024: Hall 27, Stand 550

- [Further information about Pilz solutions for the digital railway is available at www.pilz.com/railway](http://www.pilz.com/railway)



Caption: Pioneer for the digital railway: the safe, modular railway control system PSSrail from Pilz paves the way for digital solutions in signalling and railway infrastructure. (Photo: © Pilz GmbH & Co. KG)

You can find texts and images for downloading at:

<https://www.pilz.com/en-INT/company/press/messages/articles/241743>

Pilz - The Spirit of Safety

Pilz is a global supplier of products, systems and services for automation technology. As a pioneer of safe automation, Pilz creates safety for human, machine and environment. Founded in 1948, today the family business with its head office in Ostfildern is represented worldwide with 2500 employees in 42 subsidiaries and branches. The technology leader offers complete automation solutions for Safety and Industrial Security on the machine. These include sensor, control and drive technology - as well as systems for industrial communication, diagnostics and visualisation. An international range of services with consulting, engineering and training completes the portfolio. Pilz solutions are used in many industries beyond mechanical engineering, such as intralogistics, packaging, railway technology, or the robotics sector for example.

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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