

Background information

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EULYNX: Digitisation and standardisation of signalling technology as pan-European objective

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Pilz communicates via RaSTA protocol

The development of a European, modular signalling technology based on standardised interfaces: that's the aim of the EULYNX Consortium, a group of twelve European railway infrastructure companies. Pilz supports the work of the Consortium. The technical feasibility of the concept will be demonstrated using a points controller on the EULYNX stand (outdoor area O/628) at the Innotrans 2018 exhibition. The automation system PSS 4000-R from Pilz acts as the object controller.

Digitisation and pan-European standardisation are the focus when it comes to improving the quality and cost-effectiveness of European rail transport. The EULYNX Consortium wants to create more competition in the market through open standards and expects the results to be lower procurement costs and more cost-effective operation. EULYNX is committed to standardised interfaces and therefore the interchangeability of control and safety technology components. In particular it should be possible to interconnect modules from different manufacturers to form one system. Safe communication between modules occurs via the communication protocol RaSTA (Rail Safe Transport Application).

Proof-of-concept at Innotrans 2018

Evidence of the viability of this concept will be provided at InnoTrans: An object controller for a set of points uses RaSTA to communicate with a controller from a different manufacturer.

The Dutch systems integrator Sweco implemented the project for the Dutch railway infrastructure company ProRail. The safe automation system PSS 4000-R from Pilz serves as the object controller, translating the incoming RaSTA-standard signals into control commands, which can be interpreted by the end device (in this case the points); Dutch railway experts from Pilz programmed the necessary RaSTA-compliant communication.

"Basis for future innovations"

The systems integrator Sweco is very happy with the result and views the collaboration as extremely positive: "It combines the knowledge of Pilz, as a control solution supplier, and Sweco as the engineering services provider, forming the basis for future innovations", says Sander Boekee, Head of Department Rail at SWECO.

Further information about EULYNX is available at: <https://eulynx.eu>

Further information on railway solutions from Pilz is available at:
<https://www.pilz.com/de-INT/produkte-loesungen/branchen/bahntechnik>

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Pilz is an innovative automation technology company operating internationally. Pilz uses its solutions to create safety for man, machine and the environment. In addition to the head office in Ostfildern near Stuttgart, the family business is represented with over 2,400 staff in 42 subsidiaries and branches on all continents.

The company's products include sensor technology, electronic monitoring relays, safety relays, configurable and programmable control systems, automation solutions with motion control, systems for industrial communication as well as visualisation solutions and operator terminals.

Pilz solutions can be used in all areas of mechanical engineering, including the packaging and automotive industry, plus the railway technology, press and wind energy sector.



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Pilz also provides a comprehensive range of services worldwide, including safety advice, engineering, product training and seminars on the subject of machinery safety.
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