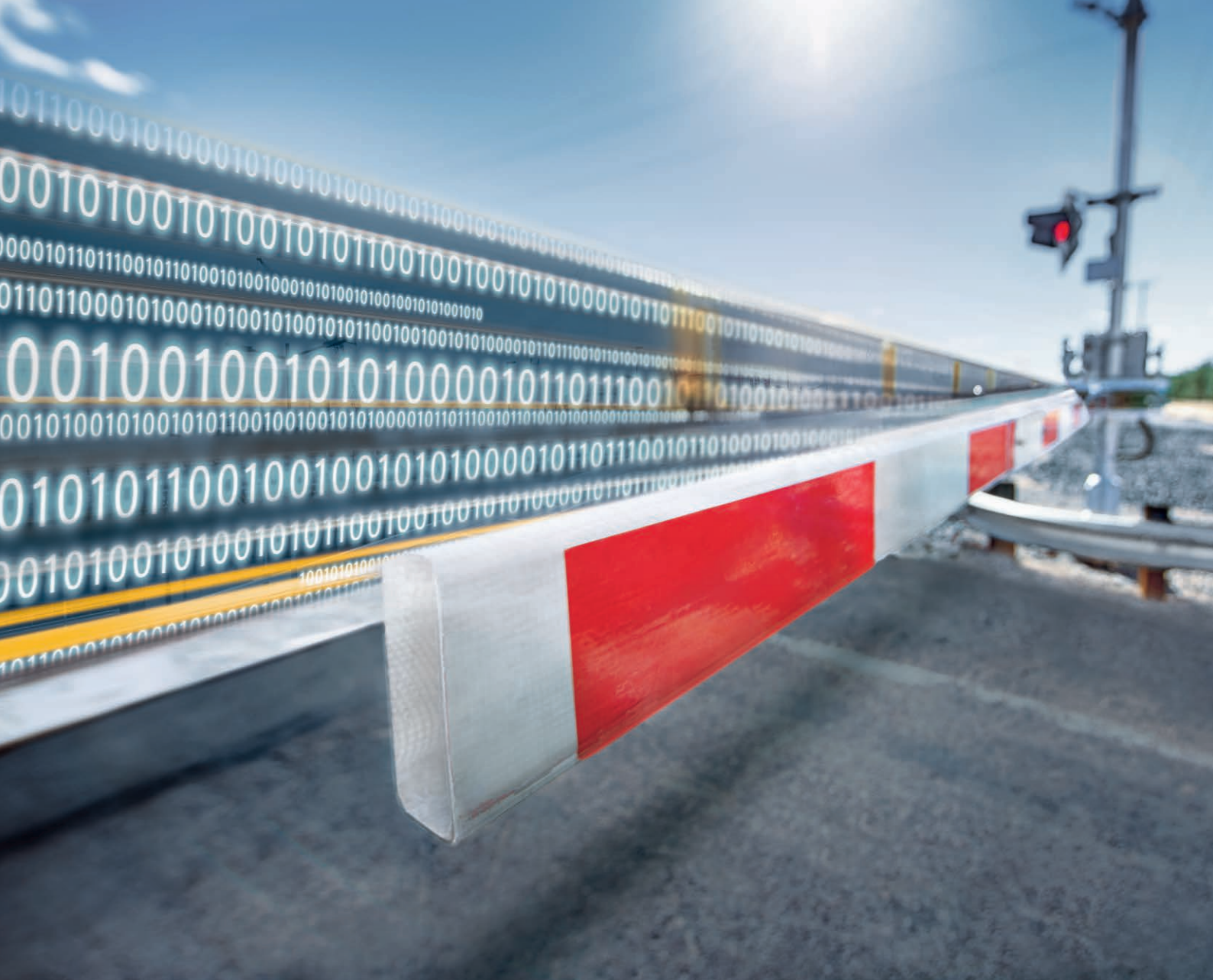




► **Safe. Modular.**
And for the Digital Railway.

PILZ
THE SPIRIT OF SAFETY

Our safe and modular control solutions
for railway infrastructure





► The Spirit of Safety in Digital Automation





With everything we do, we make the world a safer place. This is apparent in every idea, every product and every solution that's developed at Pilz. We always focus on our customers' needs and are passionate about supplying them with cutting-edge technology and the very best quality.

Today, Pilz is a global supplier of automation products, solutions and services with around 2 500 employees. The topics of digitisation and industrial security play an increasingly important role. Our digital business models offer our customers maximum benefits. Interlinked production and industrial plants must be protected against errors, whether caused intentionally or unintentionally. Pilz believes that only a holistic approach to safety and security can guarantee the comprehensive protection of humans and machinery.

For more than 75 years, Pilz has been providing inspiration with its innovative product developments and comprehensive services. Our end-to-end, individual concepts for safety, security and automation support our customers around the world in the implementation of their solutions. This is what we, as a family business steeped in tradition, stand for with our employees – each one an “Ambassador for Safety”.

In developing our solutions for safe and digital railway automation, we are committed to our core competency of safety. We provide you with a tried and tested safety solution for railway infrastructure applications and help to advance the digitisation of the railway industry with our safe, modular control solutions. You benefit from our many years of experience in safe automation technology. We bring this experience to our solutions for the railway industry.



Sensor technology



Relays



Small controllers



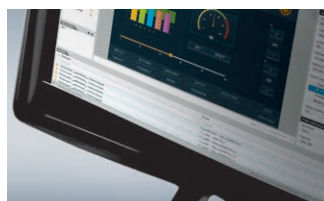
Controllers



Operating and monitoring



Connection technology



Software



Services

+ Protecting level crossings up to SIL 4

Requirements for level crossings are increasing: Higher traffic volumes, stricter safety requirements and the modernisation of existing infrastructure pose ever-greater challenges for operators. At the same time, many systems are still based on relay technology, and their maintenance and expansion are becoming increasingly complex.

With the PSSrail railway control system, we offer a modern platform for the safe control and monitoring of level crossings – from barriers and light signals to train detection and clearance monitoring.

Thanks to its modular architecture, PSSrail can be flexibly adapted to different requirements and supports the gradual modernisation of existing systems.

Continuous condition monitoring and safe remote diagnostics enable potential faults to be detected at an early stage – for greater availability, more efficient maintenance and enhanced operational safety.

+ Networking of proprietary infrastructure using Object Controllers

The digitalisation of railway infrastructure requires standardised, interoperable and future-proof solutions. PSSrail provides a modular Object Controller Platform that enables safe communication between electronic interlockings and trackside equipment – based on the EULYNX standard and the RaSTA protocol. The platform supports standardised EULYNX interfaces for communication, diagnostics, maintenance and security, enabling the seamless integration of systems from different manufacturers. Operators and system integrators benefit from a consistent architecture throughout the entire lifecycle.

One particular advantage: The same PSSrail platform can be flexibly configured for different applications – from safe points control, level crossings and train detection through to generic trackside I/O applications.

► We Digitise Your Infrastructure for Rail Transport

Rail transport needs digitisation: Many railway infrastructure systems are outdated and in urgent need of modernisation. Modern, digital railway automation can improve the reliability of rail transport. We can provide support with proven safety solutions for the requirements presented by digitisation of the railway industry.

Our safe, modular railway control system PSSrail forms the basis for the digitisation of railway infrastructure: We offer you a modular system that can be used flexibly and universally and can thus be easily adapted to your individual requirements. Our solutions include, among other things, the use of PSSrail to control and monitor level crossings, its use as an EULYNX Object Controller to control field elements along the track, and safe data transfer solutions that ensure end-to-end and reliable communication.



+ Safe data transfer solutions

Many rail networks still use copper-based communications infrastructure – with limited range, high maintenance requirements and increasing challenges when transmitting growing volumes of data.

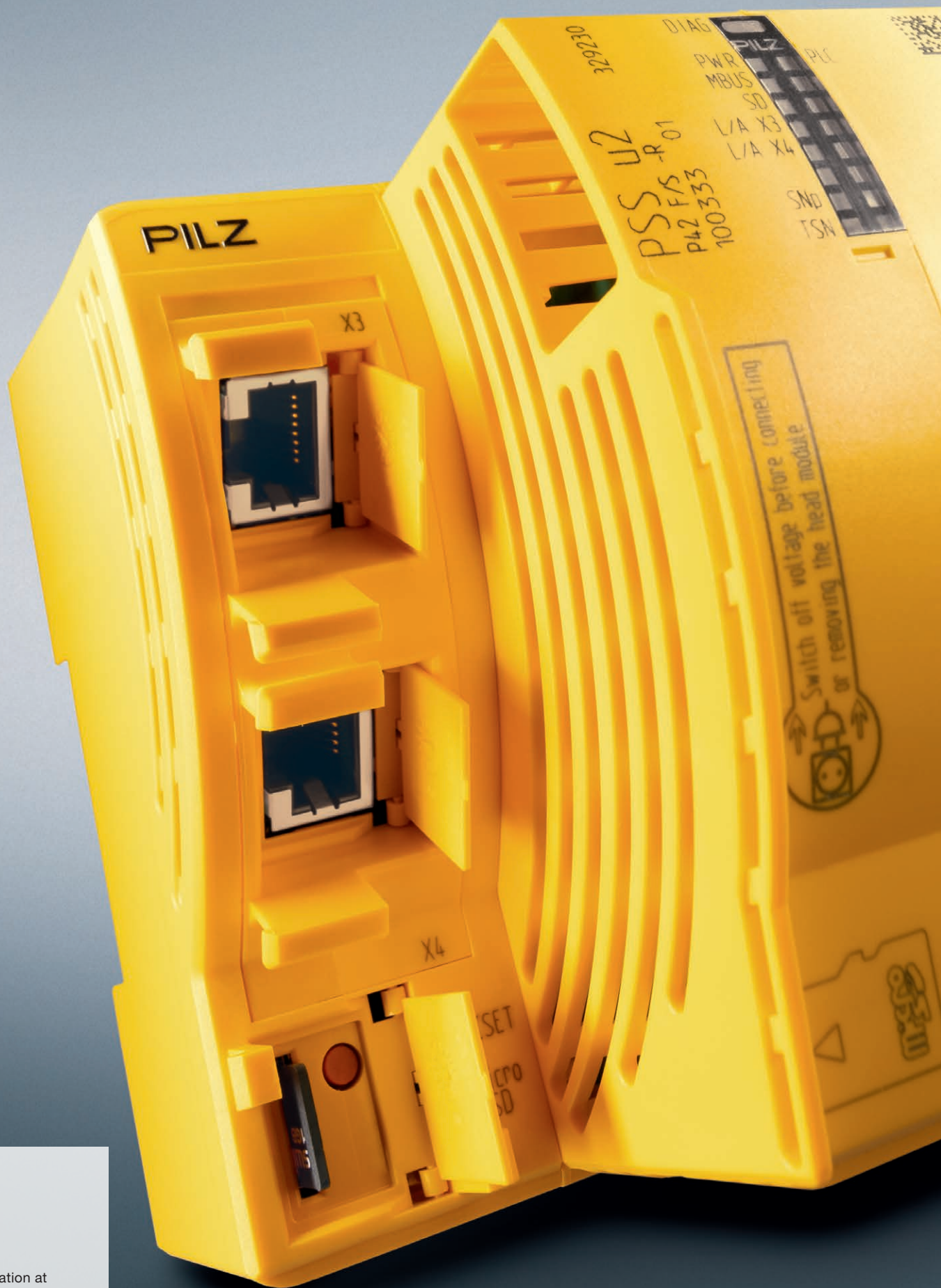
With PSSrail, we offer a future-proof alternative:

The system supports the transmission of signals and status information, for example for track occupancy, signalling, level crossings and axle counting systems. Integrated diagnostic and monitoring functions provide maximum transparency, simplify maintenance and increase system availability.

By switching from copper to fibre optics, operators benefit from greater range, higher reliability and future-proof communications infrastructure. The solution is already being used successfully in international railway projects and supports the modernisation of safety-critical communication networks in rail transport.



Additional information at
www.pilz.com/railway



Additional information at
www.pilz.com/railway



► The Heart of Our Solutions

The safe, modular railway control system PSSrail

With PSSrail, we present a safe, modular railway control system to revolutionise the digital railway.

Your benefits at a glance:

► **Modularity**

Thanks to the modular design, individual requirements can be ideally and flexibly implemented, tailored to your needs.

► **Digitisation**

We are committed to standardisation and openness with PSSrail. Our control system is compatible with the EULYNX standard, thus paving the way for the implementation of digitisation projects in railway infrastructure.

► **Flexibility**

You can use PSSrail for the most varied applications in the railway infrastructure field, including electrical locally operated points or level crossings, as well as in digital interlocking technology. 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 safe and digital, and therefore reliable and economical.

► **Safety and openness**

With railway approval and the highest safety standards up to SIL 4, the system meets all safety requirements. There is no vendor lock-in as our railway control system can be integrated into any number of solutions.



► We Are a Member of



► Partners and References



► We Are Your Partner for

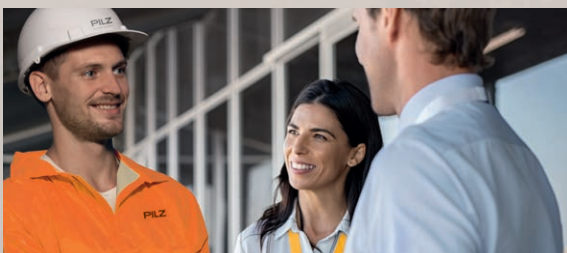
Safety experts



Our core competency is safety and we bring this to bear in our safe and digital railway automation solutions. We offer a tried and tested safety solution for railway infrastructure applications requiring up to SIL 4.

Railway Technology

Solution supplier



From the monitoring and control of level crossings to safe data transfer and the EULYNX Object Controller, we offer a flexible platform that can be adapted to your individual requirements. Invest in the future automation of the railway and benefit from innovative, safe and digital solutions.

Digitiser



Pilz is a pioneer in the development of digital solutions for modern requirements in railway infrastructure. We support the work of EULYNX, an organisation of western European railway infrastructure operators, whose mission is to develop and provide uniform standards for new, modular interlocking technology. Pilz will take you safely and reliably into the digital future!

Do you have
any questions?
Please contact us!

E-mail:
railway@pilz.com

Support

Technical support is available from Pilz round the clock.

Americas

Brazil

+55 11 97569-2804

Canada

+1 888 315 7459

Mexico

+52 55 5572 1300

USA (toll-free)

+1 877-PILZUSA (745-9872)

Asia

China

+86 400-088-3566

Japan

+81 45 471-2281

South Korea

+82 31 778 3390

Australia and Oceania

Australia

+61 3 95600621

New Zealand

+64 9 6345350

Europe

Austria

+43 1 7986263-444

Belgium, Luxembourg

+32 9 3217570

France

+33 3 88104003

Germany

+49 711 3409-444

Ireland

+353 21 4804983

Italy, Malta

+39 0362 1826711

Scandinavia

+45 74436332

Spain

+34 938497433

Switzerland

+41 62 88979-32

The Netherlands

+31 347 320477

Türkiye

+90 216 5775552

United Kingdom

+44 1536 460866

You can reach our international hotline on:

+49 711 3409-222

support@pilz.com

Reporting security vulnerabilities or security incidents

If you would like to report a security vulnerability or a security incident in connection with a Pilz product, please contact our **Pilz Product Security Incident Response Team (PSIRT)**.

You can reach us at: www.pilz.com/psirt



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Presented by:

Pilz GmbH & Co. KG

Felix-Wankel-Straße 2

73760 Ostfildern, Germany

Tel.: +49 711 3409-0

E-Mail: info@pilz.com, Internet: www.pilz.com

We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany
Telephone: +49 711 3409-0, E-Mail: info@pilz.com, Internet: www.pilz.com

PILZ
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