

We are on Track!

Electronic control for rail vehicles

InnoTrans 2026 - September, 22nd - 25th
Hall 27 Booth 650



InnoTrans 2026

Welcome to InnoTrans 2026 – and to the next chapter of rail mobility with LÜTZE TRANSPORTATION.

On the following pages, we invite you to discover an exclusive preview of our latest products, solutions and innovations ahead of the show.

We look forward to inspiring you with our latest developments and warmly invite you to visit us at our booth at **InnoTrans 2026**. Meet our experts, explore our innovations in detail and discuss the technologies and trends that will shape the railway industry of tomorrow.

We look forward to welcoming you!





As part of the **Amphenol Group**, LÜTZE TRANSPORTATION combines decades of railway expertise, agility and close customer relationships with Amphenol's global reach, extensive technology portfolio and strong innovation capabilities. This powerful combination opens up exciting new opportunities: access to complementary technologies and expertise, closer international collaboration, and the development of even more comprehensive, connected and future-ready solutions for modern rail vehicles.

Our commitment to shaping the future of rail mobility extends far beyond our product portfolio. Our involvement in AliSa, the forward-looking research project for a modular, lightweight and highly flexible sleeping-car concept, underlines our dedication to sustainable, efficient and passenger-focused overnight rail travel.



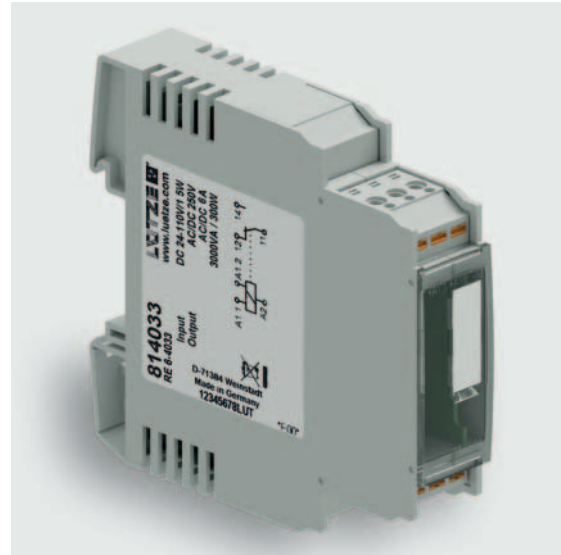
DIE BAHNINDUSTRIE.
VDB VERBAND DER BAHNINDUSTRIE IN DEUTSCHLAND E.V.



CURRENT PULSE RELAY

The new current pulse relay stores its last switching state mechanically

- A 50 ms control pulse switches the relay and the selected state remains active even after control voltage is turned off
- Two control inputs for DC 24-36 V and 72-110 V
- Automatic cut-off of the control voltage after 300 ms reduces idle power consumption
- A hard-gold plated changeover contact enables a wide range of switching applications, such as lighting control or folding the wing mirrors in and out



LION SAFE BC TRDP

Ethernet TRDP bus coupler SIL2

Our latest addition to our LION I/O System product family - the safe TRDP bus coupler with SDTv2. With state-of-the-art technology and SIL approval up to level 2, this innovative bus coupler offers a reliable solution for any application. Thanks to the possibility of connecting up to 32 I/O modules to the device and the large number of I/O modules, there are no limits to the applications.



Logic module with GreenPAK™ technology



Logic module with GreenPAK™

The new logic module based on GreenPAK™ technology has been especially designed to meet the demands of modern railway systems. It enables the flexible implementation of customized logic and signal-processing tasks – efficient, robust and space-saving.

Thanks to freely configurable analog and digital functional blocks, application specific solutions can be realized without complex microcontroller programming. This reduces system complexity, increases reliability and ensures fast development cycles.

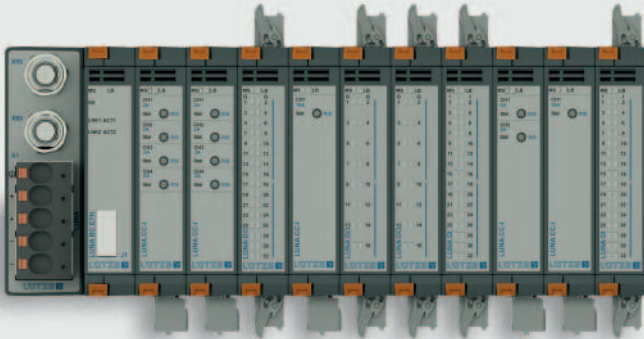
LUNA I/O-Module

LUNA I/O-Module

Discover the next generation of **LUNA I/O Modules**. With the introduction of the **DI32, DO32, and DO16** modules, LÜTZE expands the LUNA product family with powerful solutions for connecting and processing field signals.

Featuring a high channel density of up to 32 digital inputs or outputs and an exceptionally compact design, the modules provide maximum flexibility while enabling space-saving automation solutions for modern railway and industrial applications.

Optional: The LUNA portfolio is complemented by new **CC-I modules for DC 110 V**, offering intelligent electronic protection and monitoring of **110 V DC load circuits**.



RELAY MODULE WITH 4 CO CONTACTS

New compact relay module with four changeover contacts

- With a width of only 22.5 millimeters, the module is a space- and weight-saving alternative to contactors
- Two control inputs for DC 24-36 V and DC 72-110 V
- Hard-gold plated contacts ensure reliable and precise switching, even at very low loads



AST with TRDP



Audio Signal Transducer (AST) with TRDP

The AST with TRDP is the next generation of audible signaling technology. Depending on the version, it offers two additional digital inputs for enhanced flexibility and reliability. Fully controllable via TRDP, the AST enables real-time configuration through its integrated web server.

Configurations can be copied and deployed across multiple units via TRDP, simplifying commissioning and maintenance. With its wide input voltage range, the AST suits a broad variety of applications. It can store up to 15 MB of audio data or 255 tones, providing extensive customization for signaling requirements. The integrated digital inputs ensure reliable fallback operation in the event of communication loss.

LION PLC

LION PLC

With the LION PLC LITE, LION PLC, and LION PLC PLUS, LÜTZE expands its LION product family with three powerful controller variants. All variants are available in safe and non-safe versions and support the established MVB, TRDP, and CAN fieldbus systems.

The modular design with freely selectable LION I/O modules provides maximum flexibility for virtually any application. From an intelligent gateway solution for connecting different bus systems to a compact PLC for controlling motors, compressors, and other applications, the LION PLC provides the right solution for demanding automation tasks.



Multi-range analog converter in the new LCIS Rail housing



Signal converter in the new LCIS Rail housing

- Three input ranges: 0-10 V, 0-20 mA, 4-20 mA adjustable via DIP switch
- Three output ranges: 0-10 V, 0-20 A, 4-20 mA adjustable via DIP switch
- Supply voltage: DC 24 V
- Galvanic 3-way isolation
- Installation depth: only 68 mm; width: 6,2 mm
- Push-In terminals

2 x USB-charging cube with 40 W PD

2 x USB-charging cube with 40 W Power Delivery

As modern charging solutions no longer require a conventional power socket, we developed a compact, high-performance charging solution with two USB-C ports and high power output.

This solution provides device charging functionality in a much smaller form factor than a standard socket and charger combination, allowing it to be installed in space-constrained applications where conventional solutions cannot fit.

In addition, safety is significantly enhanced. With a maximum operating voltage of just 20 V, the risk associated with exposed high-voltage components is eliminated, making the solution considerably safer than traditional socket-based charging systems. The theft-resistant click-in mounting system enables quick and effortless installation, while a variety of interchangeable cover designs ensure seamless integration into virtually any application or interior concept.



The new software development tool for LÜTZE control systems



The new software development tool for LÜTZE control systems

LÜTZE is gradually converting its control systems to the new engineering tool. This will make developments even more convenient. A tool for safe and non-safe PLC applications.

- Built-in PLC simulator
- IEC 61131-3 and C/C++ programming
- Multi-project, -user, -controller support
- Test framework and static code analysis

With live demonstration at the exhibition stand.

LUNA SYSTEM



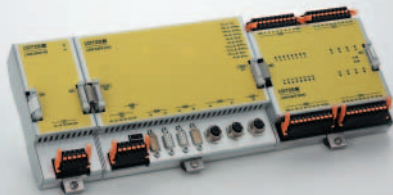
Intelligent control system for switching and load monitoring of 24 V and 110 V actuators on trains

The LUNA System enables intelligent switching, monitoring and protection of actuators via Ethernet TRDP.

Permanent current monitoring of connected loads enables predictive maintenance, early warning of upcoming failures and improved energy management

Discover the new LUNA 110 V version. Building on the proven functionality of the 24 V platform, the new variant provides the same intelligent monitoring, protection, and diagnostic capabilities for 110 V applications.

PRODUCT RANGE



CONTROL TECHNOLOGY

for clever solutions on rail vehicles, available for various performance classes, from I/O connectors to control units.



INTERFACE

products connect: Analog signals, high current outputs, galvanic decoupling or safety-related switching processes.



INDICATION

Visual and acoustic signal transducers for numerous tasks in operating and passenger sections, lighting elements and control units for the external vehicle lighting.



InnoTrans 2026
LÜTZE Transportation Solutions
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