

We are on Track!

Electronic control for rail vehicles

LUTZE 
TRANSPORTATION

**Welcome to the future of mobility and
welcome to the exciting news and
innovations of LÜTZE TRANSPORTATION**

At the following pages you have the exclusive opportunity to have a glance on some of our new products and solutions before the show even starts.

We are sure to spark your interest with our latest innovations and would be more than happy to welcome you on our booth to give you all the details on our innovations and recent technical trends.





LUNA SYSTEM



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

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

Predictive maintenance:
Permanent current monitoring
of connected loads allows
predictive maintenance or
alarming of upcoming failure
and energy management.

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.



USB-C POWER DELIVERY CHARGER



USB-C PD AC 230 V 65 W

New technology allowing to charge even a Laptop via USB-C

The USB-C PD charger enables charging of bigger devices via its 65W outlet.

This technology is low voltage and therefore touch- and vandalism-proof.

LION SAFE CCU



Safe SIL2 control unit with TRDP and Dual Homing

The new LION Safe CCU expands the LION product family with a powerful control unit that is SIL2-capable. With the LBus², the controller can be easily adapted to any application. Various safe and non-safe IO modules are available for this purpose.

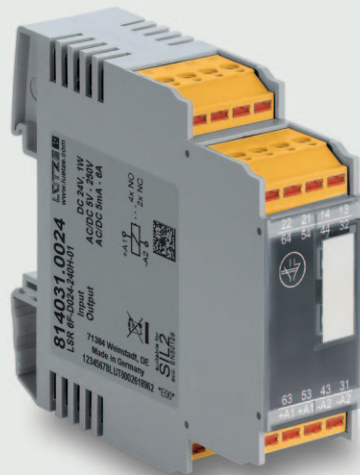
The connection to other systems is made via MVB, CAN or CANopen. The controller also offers TRDP including Dual Homing as a communication interface. The SDTv2 protocol for MVB and TRDP is available for safe communication.

SAFETY RELAY MODULES

Relay modules with force-guided contacts for safety applications up to SIL2

Contact extension and increase of switching capacity in safety control systems.

- Galvanic isolation and protection against EMC feedback.
- 4 NO / 2 NC contacts
- Available for all common on-board voltages



AUDIO SIGNAL TRANSDUCER

Audio Signal Transducer with TRDP

*Next Generation of AST's with TRDP for
endless possibilities of configuration*

This new AST is programmable via TRDP,
unlocking endless opportunities and
features an ethernet interface for fast and
straightforward integration.



TRAIN LINE MODEM

The new generation Train Line Modem

The Train Line Modem (TLM) offers the option of transferring Ethernet to existing lines.

Retrofitting Ethernet lines in existing systems is often complicated, time-consuming and expensive. And in some cases it is not possible, e.g. if a coupling is already fully occupied. Thanks to our new TLM generation, this is child's play with a speed of up to 2 Gbits/s.



USB-C POWER DELIVERY CHARGER



USB-C 60W Power Delivery Charger DC 24 - 110 V

*Charging solution with USB-C Power Delivery
and Input 24 V - 110 V*

This USB-C PD charger with suitable charging cables is a small independent charging solution, usable for almost any train platforms because of its wide input voltage range!



LÜTZE TRANSPORTATION **Power Engineer** Development System



The new software development tool for LÜTZE control systems

LÜTZE is gradually converting its control systems to the new *LÜTZE TRANSPORTATION Power Engineer*. 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.

CYBERSECURITY CORNER

Exclusive live demonstrations

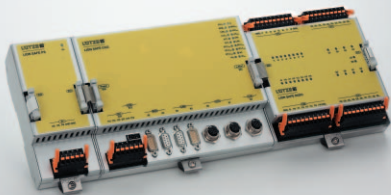
See in real time how modern cyber attacks work and which measures should be taken against them.

Our specialists are available for personal discussions and will be happy to discuss on specific security requirements.

Process demonstration for tracing and handling of vulnerabilities, Strategies for protection against attacks (TRA, SBOM, ...).

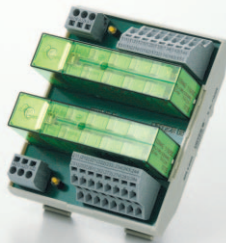


PRODUCT RANGE



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.

SkyBLUE

The Sustainability Initiative by LÜTZE

- Long-term success instead of short-term profit maximization through sustainable corporate and product policies
- Resource and energy-conscious production using durable and environmentally-friendly materials
- Strategies for conserving energy and resources through ecological and economic responsibility





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