



SCHURTER TrenoLux

Design Meets Performance: How SCHURTER TrenoLux Is Shaping the Future of Railway Lighting

In today's railway industry, lighting has evolved far beyond its traditional function. It has become a defining element of vehicle design, passenger experience and brand identity. For rolling stock manufacturers, system integrators and railway operators, selecting the right lighting partner means finding a supplier capable of combining outstanding aesthetics with engineering excellence, uncompromising quality and long-term reliability.

SCHURTER TrenoLux has established itself as exactly that partner. As part of the globally renowned SCHURTER Group, the company develops and manufactures premium LED lighting solutions for railway applications, delivering innovative exterior and interior lighting systems that meet the demanding requirements of modern rail vehicles worldwide.

Where Design and Engineering Become One

The appearance of a train is increasingly defined by its lighting. Exterior headlights and signal lights are no longer simply safety components, they have become signature design features that communicate innovation, quality and the manufacturer's identity.

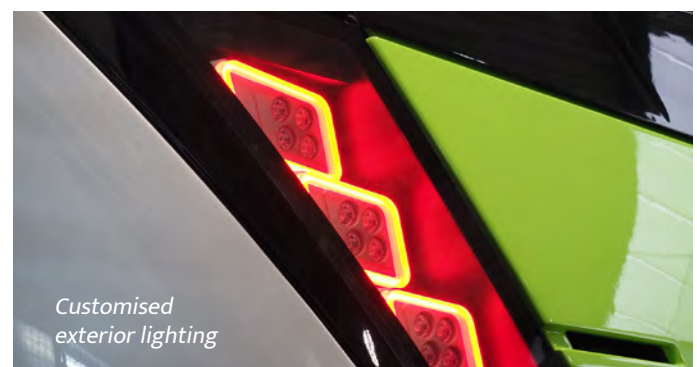
Based in Vienna, Austria, SCHURTER TrenoLux works closely with rolling stock manufacturers and designers to develop lighting solutions that integrate seamlessly into each vehicle's overall design language. Every optical element, housing geometry and lighting signature is engineered to enhance both functionality and aesthetics. With all engineering excellence in-house, SCHURTER TrenoLux is capable of developing customised solutions perfectly fitted to each project.

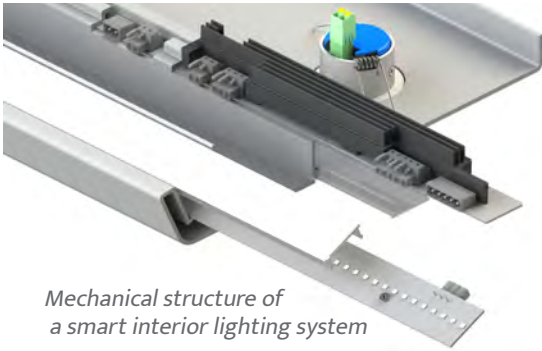
Whether the requirement is a straightforward, cost-efficient lighting solution or a sophisticated, fully integrated system for next-generation rolling stock, SCHURTER TrenoLux provides suitable solutions scalable for every project.

Intelligent Lighting with Maximum Flexibility

No two railway platforms are identical. Vehicle architectures, operating environments and customer expectations vary significantly from project to project.

To address this diversity, SCHURTER TrenoLux has developed a modular platform that allows highly





Mechanical structure of a smart interior lighting system

customised lighting solutions while maintaining efficient development and production processes. This flexible engineering approach enables manufacturers to realise unique vehicle designs while benefiting from proven technologies and shorter development cycles.

Inside the vehicle, advanced LED lighting solutions provide comfortable illumination while supporting energy efficiency and digital fleet management. Adjustable brightness, tunable white technology and programmable lighting scenarios allow operators to create impressive passenger environments while optimising energy consumption.

Integrated diagnostics also enable predictive maintenance strategies, allowing operators to monitor system performance continuously and identify potential issues before they result in unplanned downtime. Modern communication interfaces such as CANopen and Ethernet TRDP enable seamless integration into digital vehicle architectures.

To ensure maximum flexibility, two smart interior system architectures have been designed, with communication between the Light Control Unit and the luminaire available in both DALI and the TrenoLux Light Network, which is based on CANopen. Both systems allow advanced control of the complete lighting system, each with its own individual benefits.

Shaping the Next Generation of Rolling Stock

SCHURTER TrenoLux supports customers throughout the entire project lifecycle – from concept development and optical design to validation, certification support and serial production. This collaborative approach enables manufacturers to bring innovative vehicles to market while reducing technical complexity and development risk.

By combining sophisticated industrial design, intelligent electronics and premium manufacturing quality, SCHURTER TrenoLux delivers lighting systems that create value throughout the entire lifecycle of a railway vehicle.

For railway OEMs and operators alike, modern lighting has become a strategic investment that enhances safety, strengthens vehicle identity and improves operational efficiency. SCHURTER TrenoLux demonstrates how thoughtful engineering and exceptional design can work together to illuminate the future of rail transportation.

About SCHURTER TrenoLux

SCHURTER TrenoLux is a specialist in advanced LED lighting systems for the global railway industry and part of the internationally recognised SCHURTER Group. The company develops and produces customised interior and exterior lighting solutions for all vehicles operating on rail. With its base in Vienna, SCHURTER TrenoLux supports customers from concept and design through validation and serial production. The Location is equipped with state-of-the-art technology and an in-house lighting laboratory that supports the development of innovative solutions, helping manufacturers and operators improve safety, vehicle design, passenger comfort and long-term operational efficiency.

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*SCHURTER
TrenoLux
smart Light
Control Unit*

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We warmly invite you to visit the SCHURTER TrenoLux booth at InnoTrans 2026 in Berlin. At our largest exhibition stand to date, we will present our latest innovations in railway lighting and showcase how modern solutions can contribute to safer, smarter, and more comfortable rail transportation.



Hall 1.1 | Booth 220

Let's meet in Berlin!



Discover our newest developments for interior and exterior lighting.
Learn more about our customized solutions for international rail projects
and meet our team in person to discuss future opportunities.

Your SCHURTER TrenoLux Team