

TUNNELINE

TUNNEL LIGHTING

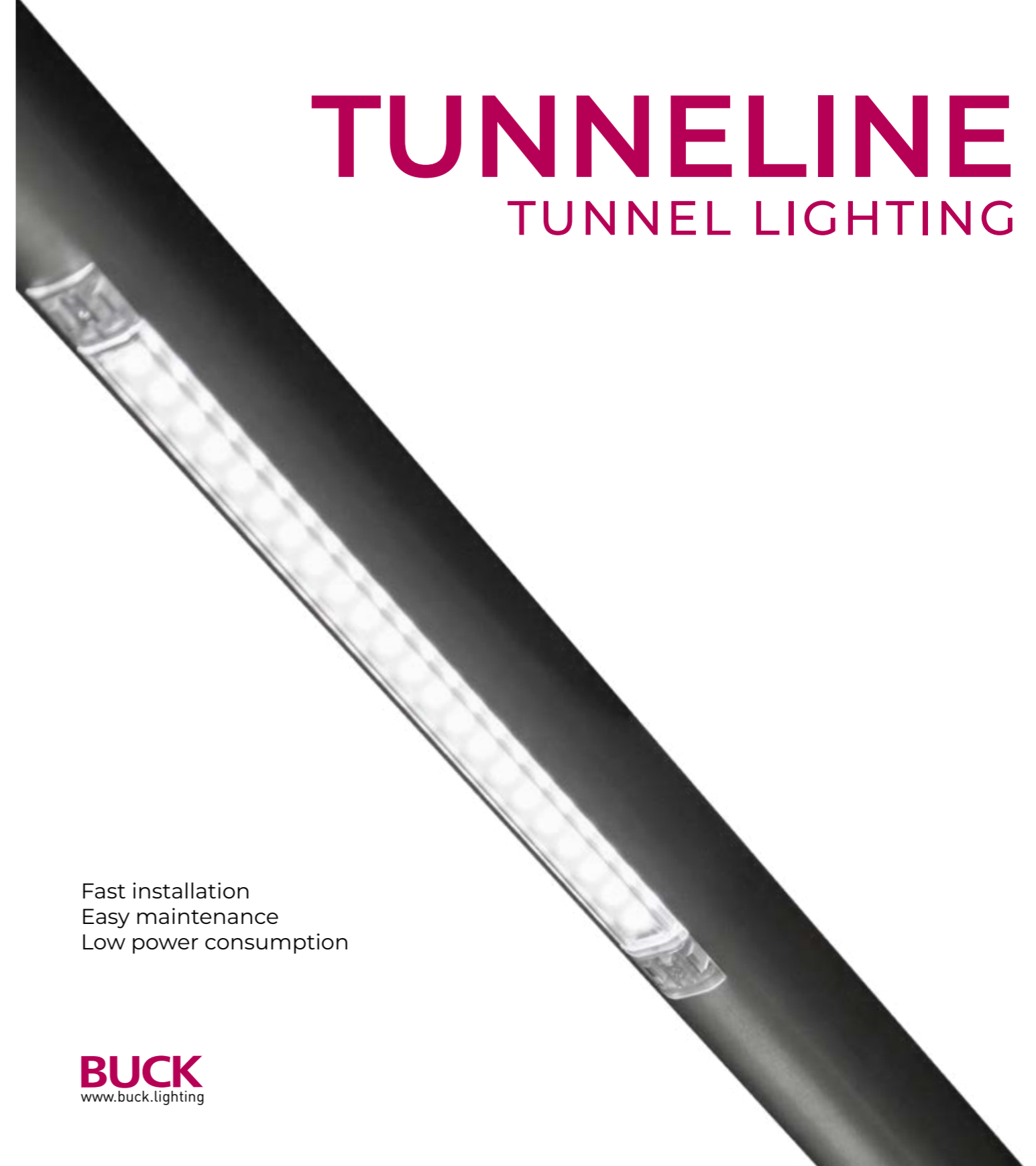


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Fast installation
Easy maintenance
Low power consumption

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RAILWAY TUNNEL LIGHTING

Railway tunnels are crucial components of modern transportation infrastructure, and ensuring their safety and efficiency is paramount. One specific application of emergency and orientation lighting in tunnels is integrated tunnel luminaires in handrails.

This lighting provides essential guidance and orientation to individuals during emergency situations that require evacuation. To meet the demands of this critical application, experts have developed TUNNELINE & TUNNELINE P luminaires.

These innovative LED lights can be smoothly integrated into tunnel handrail structures providing emergency lighting when needed most.

With TUNNELINE and TUNNELINE P, railway tunnels can now be safer and more efficient than ever before.

These luminaires are engineered to withstand harsh environmental conditions, such as water, dust, dirt, gravel, and vibrations, without compromising their durability and reliability.

Luminaires are digitally networked through a system of remote monitoring units, which send messages to a telecontrol system.



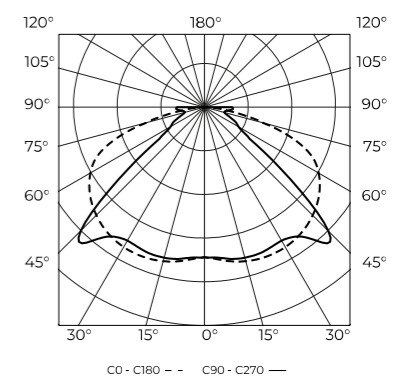
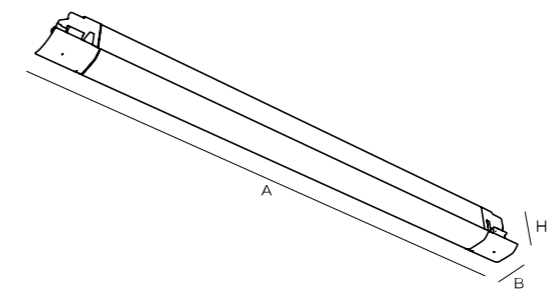
The angle of longitudinal axis rotation by 45°

TUNNELLINE

Railway tunnel luminaire for emergency lighting, integrated in stainless-steel handrails. Appropriate for harsh environments with high air pressure caused by high-speed trains. The longevity, energy efficiency and reliable luminaire performance ensure low operating costs.

TUNNELLINE P

Railway tunnel luminaire for emergency lighting, integrated in GRP handrails. Appropriate for harsh environments with high air pressure caused by high-speed trains. The longevity, energy efficiency and reliable luminaire performance ensure low operating costs.



	DIMENSIONS A / B / H (mm)	LED LUMEN (lm)	TOTAL POWER W	WEIGHT kg
TUNNELLINE	270 / 18 / 21	85	1.00	0.07

DESIGN

Appropriate light distribution is generated by the polycarbonate luminaire housing itself, which is designed as a functional optical unit. The luminaire housing is made of polycarbonate and is highly protected – IP66, IK07.

THERMAL MANAGEMENT


The handrail system mounted on the tunnel walls includes luminaire and power cable infrastructure.

The luminaire can be placed into the handrail easily and without tools. The handrail is made of stainless steel – a very durable and corrosion-resistant material.





Tunneline luminaires are an excellent solution for railway tunnels. Their design ensures that it can withstand harsh conditions and provide secure illumination.



Our Tunneline and Tunneline P luminaires represent the ideal solution for railway tunnels from an aerodynamic point of view.

A significant factor in their efficiency is the cantilever construction that extends along the entire length of the tunnel.

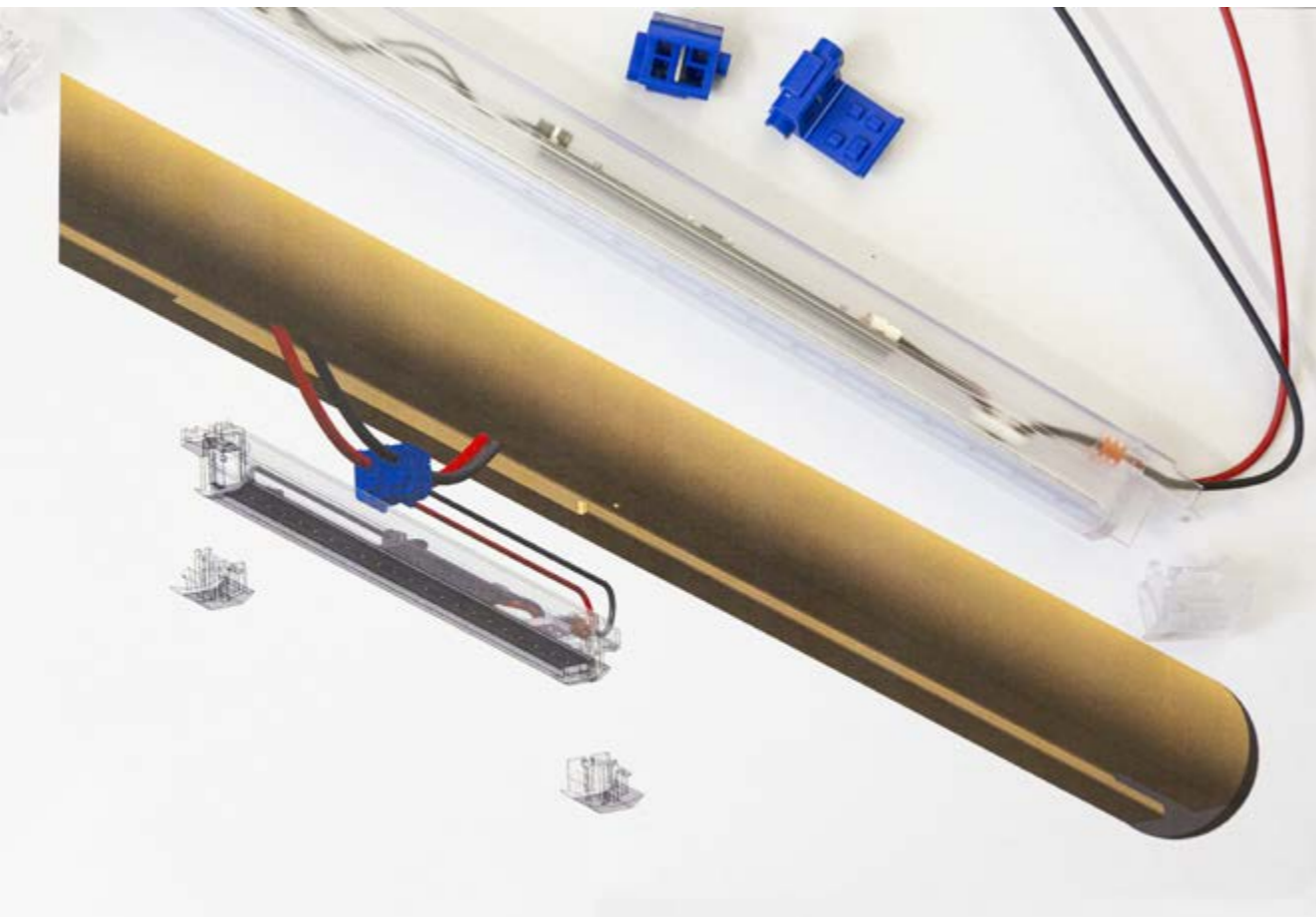
With multiple attachment points, these luminaires can withstand even the strongest air pressure forces caused by high-speed trains.

DESIGN

Our Tunneline handrail boasts an advanced LED emergency lighting system that is designed to provide the utmost safety and security.

The system's integrated monitoring unit can detect any LED module failures at an early stage, ensuring that any lighting issues are promptly addressed. In case of a loss, the remote monitoring system receives detailed information about the status and issue, including whether the lighting in the tunnel is ON or OFF, phase failure, failure of three consecutive luminaires, or information about loss of the entire power line.

This feature is vital in maintaining a well-lit and safe tunnel environment, allowing quick and efficient resolution of any lighting issues.





ALTERNATIVE ENERGY SOURCES

Installing solar panels or other types of renewable energy sources is an excellent way to take advantage of the benefits of “free” electricity while simultaneously reducing our dependence on the power grid.

This approach can decrease costs and alleviate the pressure on the network, particularly during peak usage throughout the day.

Additionally, renewable energy sources offer an almost infinite supply of energy from natural sources, and they are considered environmentally friendly because they generate little to no emissions of CO₂ and other harmful greenhouse gases that can damage the ozone layer or adversely impact the environment.

