

Sustainability

It's a pleasure to spend less for much better light.

Continuous energy consumption caused by tunnel lighting has a considerable impact on the cost and CO2 balance of public institutions.

Highly efficient SITECO lighting technology with currently up to 185 lm/W significantly reduces energy consumption, and innovative control of luminous flux based on live parameters via luminance cameras exploits additional savings potential.

Due to the high luminous flux of our luminaires, fewer light points are required and the lower connected load requires a smaller uninterruptible power supply (UPS). This is our guarantee for low investment and operating costs as well as short payback periods – along with sustainable reductions in the CO2 balance.

Refurbishment of the Kaisermühlen tunnel in Vienna exploits the full potential:

Efficiency increase
by a factor of **3**



Project: Kaisermühlen tunnel, Vienna, Austria
Product: Tunnellight TL 23



Project: Ettendorf tunnel, Traunstein, Germany
Product: Tunnellight TL 33

Sustainability

Our concept for minimizing tunnel closures.

Where performance is required day and night, robustness is even more important. SITECO tunnel luminaires feature top values in terms of dependability and operational reliability thanks to extremely low reduction in luminous flux of 5 % after 100,000 hours and almost maintenance-free operation.

Our design-for-sustainability strategy reaches down to the last detail: resistant housings made of high quality stain - less steel defy corrosion and are prepared for the use of automatic tunnel cleaning machines. Modular constructions enable easy replacement of components and separately installable e-boxes in easily accessible locations simplify maintenance work.

L95/ at 100.000 h
B10 Long service life with very low
luminous flux reduction

Sustainability

Expertise down to the last detail.

For us, sustainability means more than just energy and CO2 savings. We also consider the service life, the material properties and simply all factors that make your everyday life easier in a meaningful way. This is why all ideas and, above all, many years of experience are incorporated into our product concepts to provide real benefits.

SITECO considers sustainability in all dimensions.

Maximum quality of materials for corrosion prevention, e.g. through high quality stainless steel alloy for all load-bearing parts

Intelligent mounting concepts for simple installation thanks to well thought-out features such as quick-release catches and one-man mounting systems

Mechanical and constructional protection against the effects of mechanical cleaning, e.g. special tabs to protect the plug from brushes

Uniform connector system for all tunnel luminaires for easy stockkeeping and retrofitting with pre-assembled quick connectors

Modular design for easy component replacement and separate E-box installation (up to 12 luminaires per box) in easily accessible locations – for simplest mounting and maintenance work





Project: Katzensee tunnel, Zurich, Switzerland
Product: Tunnellight TL 13, Streetlight SL 20

Flexibility

From us to you: the right light for any tunnel.

We know that each and every tunnel is different, and for this reason our portfolio of lighting solutions for tunnels and underpasses offers maximum flexibility.

Whether innovative continuous row luminaires with top photometric values or vandal-proof underpass luminaires: our complete understanding of applications from more than 1,000 projects is bundled in a flexible modular system. With optimized lumen packages, light distributions and control options for precisely matching configurations in every project. Only our customizing solutions provide even more individuality.

The advantages of our diversified portfolio prove their worth in the refurbishment of several tunnels and approach zones of the northern Zurich expressway ring.

**Complete SITECO application expertise
for the Zurich northern bypass.**



Project: Eyholz tunnel, Visp, Switzerland
Product: Tunnellight TL 13

Quality of life

Safe driving thanks to outstanding lighting technology.

Our tunnel lighting solutions set maximum standards in terms of safety. High lumen-output LEDs provide best visibility without glare via powerful, uniform illumination for UI values of up to 1. Absolutely homogeneous lighting, particularly with our innovative continuous row luminaires, prevents fatigue and creates maximum visual comfort in the tunnel. Thanks to sophisticated, asymmetric counter-beam optics, our entrance zone luminaires provide a pleasant and above all safe adaptation route.

Maximum reliability for almost maintenance-free operation and continuously optimal visibility always guaranteed – convincing arguments for the Eyholz Tunnel in Switzerland.

SITECO solutions for more traffic safety.



Continuous row luminaire with innovative, extremely compact design for challenging mounting situations, made of high quality stainless steel

Simple installation thanks to double-secured quick release catches for one-man mounting

Very uniform illumination (UI values up to 1,0) and seamless continuous row as visual guiding element for high visual comfort and thus traffic safety

Outstanding efficiency of over 185 lm/W for low energy consumption and operating costs and low luminous flux reduction for long service life

Controllable via 10 StepDIM or DALI, thus highly compatible with various control systems

Sophisticated product concept with E-box for 10 to 12 luminaires and exchangeable driver reduces investment costs and simplifies maintenance thanks to separate installation option

Tunnellight TL 13

The absolute top model in tunnel lighting.

An innovative design for seamless continuous rows and with best lighting values – the optimum solution for maximum visual comfort and traffic safety in tunnels.



Linear compact luminaire with higher luminous flux package compared to continuous row luminaires with typical light point spacing of 8 to 12 m – saves luminaires and simultaneously ensures very good visual guidance and uniform illumination

Advanced lighting technology with outstanding efficiency of over 185 lm/W for low operating costs

Very uniform and spatial illumination via illumination of tunnel walls for high visual comfort and thus traffic safety

Robust construction matched to automatic tunnel cleaning machines for maximum reliability

Simply controllable via 10 StepDIM or DALI, thus highly compatible with different control systems

Tunnel closures minimized by installation of driver boxes in maintenance tunnels or niches

Tunnellight TL 23

The efficient all-rounder among tunnel luminaires.

As a linear compact luminaire it combines the best of two concepts: uniform illumination with good visual guidance and a lower number of luminaires to be installed.



Compact luminaires with in the portal area low construction height for more flexibility with overhead clearance heights – especially important for renovation projects

Suitable for wide light point spacing of up to 18 m thanks to symmetric lenses for low investment costs

Double the efficiency of luminaires with high pressure sodium vapor discharge lamps – saves luminaires and energy

Robust construction with high-grade materials, housing made of stainless steel 1.4404 and aluminum heat sink of AlMg2 for long lifespan

Controllable via 10 StepDIM or DALI, thus highly compatible for various control systems

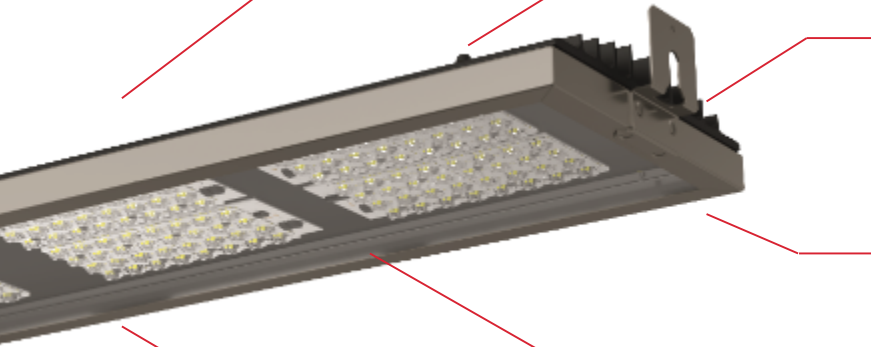
Sophisticated product concept with integrated control unit and with two circuits for high operational reliability

Tunnellight TL 33

Transit zone luminaire

The well thought-out tunnel luminaire.

The compact luminaire with minimal construction sizes and symmetric lenses for very large light point spacing.



With special asymmetric light distribution according to the counter-beam principle for rich-contrast visual comfort or symmetric light distribution for especially pleasant adaptation to the lower light level of the tunnel transit zone

Generates 40 % more light than a luminaire with 400 W high pressure sodium vapor discharge lamp – saves luminaires and energy

Sophisticated product concept with ECG in separate E-box for simple replacements

Thermally decoupled for a long service life and ESD protection of the luminaire head for simplified maintenance work

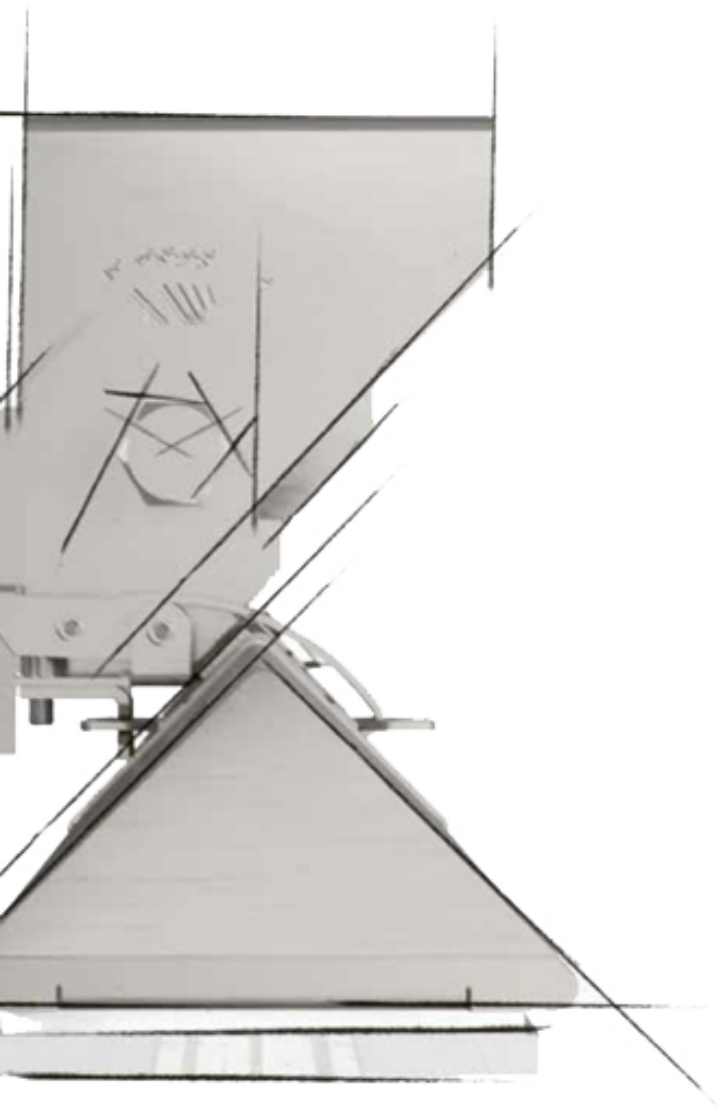
High quality materials with housing made of 1.4404 stainless steel and aluminum body made of AlMg2

Available in three performance packages with up to 63,500 lm for efficient design of the adaptation zone and thus more visual comfort in the portal area

Tunnellight TL 33 Portal luminaire

Power for the tunnel entrance zone.

Intelligently designed entrance lighting with innovative counter beam optics for high visual comfort at tunnel portals.



Adaption.

Modification of series luminaires

- Changing the light color and color rendering
- Changing the housing dimensions, colors and mounting devices

Combination.

Modular construction system

- Versatile combinable systems for your ideal project solution
- Modular SITECO optic platforms as the basis for your project luminaire

Creation.

Special luminaire development

- Concept development and project management
- Construction planning and special luminaire construction with an experienced development team

We symbolize customer proximity through flexibility and speed.

If the diversity of variants in the catalog ends, the almost infinite variance of customizing options begins.

SITECO offers a wide spectrum of options for customized solutions thanks to its experienced team of designers and engineers. *Made in Germany* also means we provide additional flexibility and speed.

800.000

customized luminaires in over 1,000 projects

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