

PRESS INFORMATION

Reliable LED tunnel lighting for maximum traffic safety

With DACHSTEIN and ALPSPITZE, NORKA presents two new LED luminaires that have been specially developed for the different requirements in the entrance and transit-zones of road tunnels. The robust systems combine high light quality, energy-efficient operation and extreme resistance to the demanding environmental conditions in tunnels.

In road tunnels and underpasses, standard-compliant lighting is a key prerequisite for road safety. NORKA's VERNO division offers robust and energy-efficient lighting solutions designed for the extreme environmental conditions in tunnels. With the new DACHSTEIN luminaires for the entrance zone and ALPSPITZE for lighting of transit-zones, a coordinated system for safe and economical tunnel lighting is now available.

Robust construction for extreme tunnel conditions

The requirements for tunnel luminaires are high: moisture, fine dust, high ambient temperatures, high exhaust gas pollution and regular cleaning processes with high-pressure equipment require extremely robust and reliable luminaires. Challenges that the new DACHSTEIN tunnel entrance luminaire and the new ALPSPITZ tunnel passage luminaire master perfectly: Thanks to protection classes IP 66 and IP 67 and a luminaire housing made of highly corrosion-resistant stainless steel (V4A), they can withstand aggressive tunnel atmospheres. Optionally, the housings can also be made of seawater-resistant stainless steel (V5A). The luminaire is finished with thermally toughened safety glass (ESG) for maximum mechanical strength. Last but not least, they feature an ageing-resistant and chemical-resistant seal as well as an integrated pressure compensation system with a climate membrane. This prevents condensation from forming during rapid temperature changes and tunnel cleaning processes.

Optimal visibility at tunnel entrances

The transition from bright daylight into a tunnel is particularly challenging. Here, the human eye must adapt to significantly lower light levels within a very short time. Without adequate lighting, the tunnel entrance appears as a dark opening, which increases the risk of accidents. Supporting the eye's ability to adapt by gradually adjusting to the light level inside the tunnel is therefore a top priority. The DACHSTEIN luminaire was specially designed for the entrance and adaptation section of road tunnels. It features highly efficient light control using precision lenses to generate the required luminance levels in the portal area. The asymmetrical light distribution ensures optimum illumination of the carriageway in the direction of travel. The compact DACHSTEIN has a modular

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design and is available in two sizes: 'm300' (L 370 mm, W 320 mm, H 82 mm) and 'm600' (L 570 mm, W 320 mm and H 82 mm). It is also available as a standard double luminaire (2 x 'm600') with a width of 650 mm. These three variants achieve luminous fluxes from 22,800 lm to 78,000 lm. To ensure optimum thermal management due to high connected loads in the entrance zone and high ambient temperatures in areas with low air exchange, the luminaires are optionally available with an external driver box. This protects the sensitive electronics from the heat generated by the LEDs and increases the service life.

The DACHSTEIN is equipped with high-performance LED drivers for dynamic control operation. It is available with either an integrated DALI interface or a 4-20 mA control for continuous, automatic adjustment of brightness to the outside light level. The right control system enables the entrance lighting to operate at 100 % power in bright sunlight and to be dimmed to the level of the lighting of the transit-zone at night.

Homogeneous lighting for the transit-zone

In order to enable road users to drive safely and without fatigue through the tunnel, uniform lighting is of utmost importance, while a relatively low lighting level is usually sufficient. For this reason, the ALPSPITZE luminaire, designed for lighting road tunnels, underpasses and galleries, places great emphasis on uniform transit-zone lighting throughout the entire tunnel. The ALPSPITZE is available in five lengths (370 mm, 600 mm, 840 mm, 1164 mm and 1560 mm with a width of 183 mm and a height of 82 mm) and covers luminous fluxes from 12,000 lm to 47,500 lm. Here, too, specially coordinated precision lenses are used to ensure homogeneous luminance distribution and uniform illumination of the roadway. With five different light distributions, the ALPSPITZE offers a high degree of flexibility for optimum illumination of the roadway. For increased ambient temperatures in tunnels or galleries with limited air exchange, the luminaire is available in a special version, depending on the selected lumen package.

The ALPSPITZE is wired ready for connection and equipped with highly efficient LED driver for continuous operation. You can choose between a version with an integrated DALI interface or with step switching for energy optimisation.

Easy installation and maintenance

Both luminaire types can be mounted on tunnel ceilings as well as on side walls. An adjustable stainless steel swivel bracket allows the luminaires to be precisely aligned with the geometry of the roadway. The angle of inclination can be set on the ground using a mounting bracket before the luminaire is hung on the ceiling or wall, so that installation can be carried out by one person. Optional versions with tool-free mounting are also available for both luminaires, enabling quick installation and easy maintenance in the traffic area. Component replacement is also easy, as the LED driver and LED module can also be changed without tools as an option.

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NORKA – Light perfected.

The family-owned company NORKA, founded in 1948 and based in Hamburg and Dörverden-Hülsen, specialises in technically sophisticated lighting solutions tailored to very special ambient conditions. The main application areas for NORKA luminaires include industrial and production workshops, train platforms and transport buildings, workshops, multi-storey car parks, facades, port facilities and work pits, as well as washing systems, swimming pools, logistics centres and cold stores. With its area of business VERNØ for traffic and tunnel lighting, NORKA also offers a broad product portfolio for improving traffic safety. This range includes luminaires for entrance and passage lighting in tunnels, as well as solutions for traffic guidance and the indication of escape routes. NORKA products provide maximum investment security thanks to their long service life, high availability and energy efficiency.

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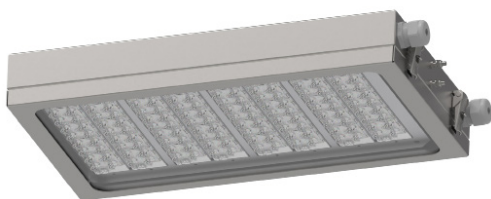
DACHSTEIN and APLSPITZE / Pic.: 01 NORKA/Frieder Blickle, 02-07 NORKA



01 With its area of business VERNØ for traffic and tunnel lighting, NORKA offers a broad product portfolio for improving traffic safety.



02 The new DACHSTEIN tunnel entrance luminaire features highly efficient light control using precision lenses to generate the required luminance levels in the portal area.



03 DACHSTEIN has a modular design and is available in two sizes: 'm300' (L 370 mm, W 320 mm, H 82 mm) and, as shown in the picture, 'm600' (L 570 mm, W 320 mm and H 82 mm).



04 DACHSTEIN is also available as a double luminaire (2 x 'm600') as standard, enabling light outputs of up to 78,000 lm to be achieved.



05, 06, 07 The new APLSPITZE tunnel lighting system uses specially designed precision lenses to ensure uniform luminance distribution throughout the entire tunnel. With a total of five sizes, it covers light outputs from 12,000 to 47,500 lumens. Different light distributions allow flexible adaptation to different tunnel geometries and mounting types.