



NORKA

VERNO

Innovative tunnel and traffic control systems of NORKA

MORE LIGHT. MORE VISIBILITY. MORE SAFETY.

ver | no is an acronym of the German word for traffic, VERKEHR, and NORKA. Because, with VERNÖ, we are expanding our range of services to include street and tunnel lighting.

For more than 70 years, NORKA has been developing technically advanced lighting solutions "made in Germany", customised for special environmental conditions and visual tasks. Railway stations, production halls, cold stores, logistics centres, multi-storey car parks, ports or sports facilities are among the typical areas of application in which our luminaires have already established themselves.

With VERNÖ, we now offer a wide range of solutions to improve traffic safety. In addition to passageway or interior route lighting, our portfolio now also includes entrance or adaptation lighting, as well as complete traffic guidance and the marking of escape routes and danger zones. With VERNÖ, we are making a significant contribution to permanently securing personal and public mobility throughout the world. And this in the high quality that our customers have come to expect from us and that is crucial for all road users.



VERNO LINE

DIRECT TRAFFIC IN THE RIGHT DIRECTION.





Modern traffic management would be unthinkable without active traffic guidance systems for motor vehicles and pedestrians. With VERNO LINE luminaire modules installed above ground, you will always direct traffic both in tunnels and on roads into the right lanes. Ultimately, this not only ensures a smooth traffic flow, but also more safety and orientation on the road.

THIS IS HOW YOU WILL KEEP THE TRAFFIC FLOW GOING WITH VERNO LINE:

- Choose between wired or inductive contactless guidance systems.
- All light modules have high-intensity LEDs with a flexible, unbreakable protective pane of soft glass and have a T-connection to increase reliability. On demand front and rear of the modules can be switched separately.
- The control unit regulates the brightness of the LEDs for you and allows you to switch to flashing mode or other programmable functions.
- Save power and money: The luminaire modules of VERNO LINE are characterized by a high energy efficiency.
- VERNO LINE is low-maintenance, robust (suitable for machine cleaning), long-lasting and offers you a guaranteed supply of spare parts, which will be available even after decades. That is why VERNO LINE, just like our entire product range, is a safe investment.



VERNO LEVELITE

**MORE ROBUST
THAN A SNOW
PLOUGH.
AND MORE
INTELLIGENT
AT ANY RATE.**



Dimming and flashing, as well as increased safety. Next-level traffic management with VERNO LEVELITE.



Wherever vehicles or passers-by are guided to a destination in an orderly manner, traffic guidance systems come into play. With VERNO LEVELITE underground guidance systems, you can direct and optimise traffic flows in tunnels, on roads or on footpaths in a particularly intelligent way. Due to the low total height above the road surface (height of the LED module above road level less than 3 mm), the underground guidance system offers you a powerful light source in an extremely compact design. And, what is particularly robust: A slightly elevated stainless steel ring also protects VERNO LEVELITE from damage caused by snow ploughs and snow chains.



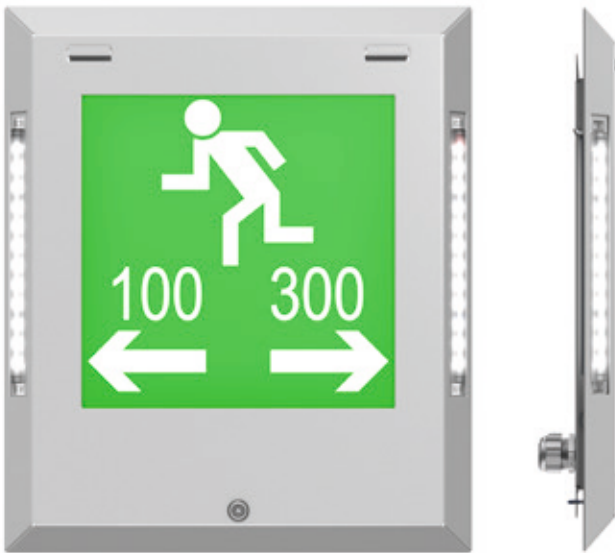
THIS IS HOW VERNO LEVELITE ADAPTS TO YOUR TRAFFIC MANAGEMENT:

- The height of the respective LED module is just 3 mm above road level.
- All luminaire modules are traversable, protected by a slightly elevated stainless steel ring and, if desired, can be switched separately at the front or rear.
- The control unit regulates the brightness of the LEDs for you and allows you to switch to other functions.
- Save power and money: VERNO LEVELITE is characterized by a high energy efficiency.
- VERNO LEVELITE is low-maintenance, robust (suitable for machine cleaning), long-lasting and offers you a guaranteed supply of spare parts, which will be available even after decades. That is why VERNO LEVELITE, just like our entire product range, is a safe investment.

VERNO EXIT

**IN AN
EMERGENCY,
EVERY SECOND
COUNTS.
AND EVERY
LUMINAIRE.**

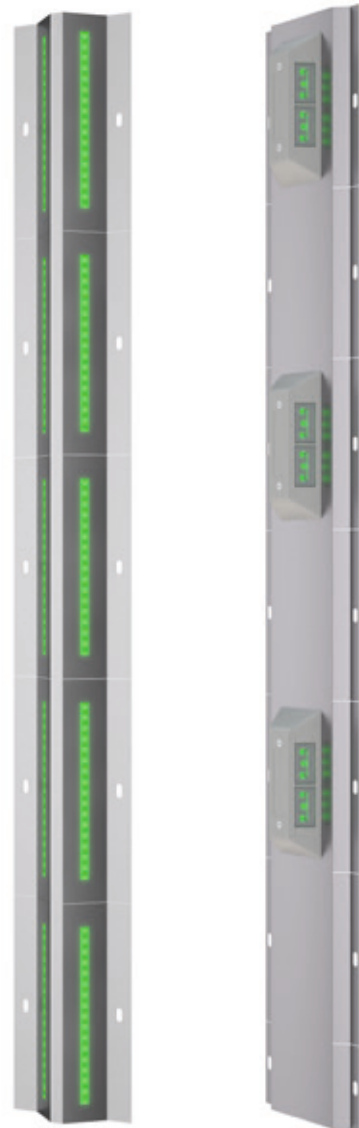




If there's a tunnel fire, everybody wants one thing: get out! There is only one safe escape in this situation – the emergency exit. Past fire disasters in tunnels have shown that escape door and escape route marking in particular has a strong influence on escape behaviour. Under the name VERNO EXIT, NORKA is developing state-of-the-art escape door surrounds and dynamic escape route markings. As a result, people fleeing the scene will always find the exit in an emergency.

WITH VERNO EXIT YOU CAN CREATE SAFE ESCAPE ROUTES IN AN EMERGENCY:

- VERNO EXIT offers an effective system to support self-rescue.
- Escape doors are marked by permanently lit LED modules.
- Escape routes are indicated by LED arrow modules with chaser function and are only activated in an emergency.
- VERNO EXIT offers you optional flash modules with ultra-bright LEDs that are activated in an emergency and are visible from a great distance even in dense smoke.
- All VERNO EXIT modules are suitable for machine cleaning and can be combined with VERNO LINE, VERNO LEVELITE or VERNO RAIL.



Escape routes, escape doors and emergency exits must be clearly marked – even if in case of a power failure. VERNO EXIT offers a solution that complies with all legal requirements from the outset.



VERNO TUBE

**OUR PROTECTION
FROM TUNNEL
VISION: OPTIMUM
TUNNEL
LIGHTING**

With VERNO TUBE, you not only save electricity and money, but also contribute significantly to traffic safety with harmonised lighting conditions.



The critical moment of every tunnel journey is the transition from the outside to the inside – and vice versa. With VERNO TUBE and the appropriate lighting control, you can regulate the lighting level in such a way that confusion is avoided. The system design allows you to place the electronic components away from the housing and the luminaire, even outside the driving area within the tunnel. With VERNO TUBE, you not only consider the technical aspects during planning, but also promote traffic safety and a harmonious traffic flow.

THIS IS HOW YOU PROVIDE OPTIMUM TUNNEL LIGHTING WITH VERNO TUBE:

- Benefit from fast mounting and shorter blocking times with immediately visible results.
- Invest in the reliability and quality of LED technology.
- VERNO TUBE is characterized by a high resistance against aggressive tunnel atmospheres.
- Achieve a high level of reliability through redundant wiring of the LEDs with low maintenance requirements.
- Control components and luminaires can be installed separately.
- Save power and money: The luminaire modules of VERNO TUBE are characterized by a high energy efficiency.
- VERNO TUBE contributes significantly to traffic safety through harmonized lighting conditions.
- VERNO TUBE is robust and suitable for machine cleaning (protection rating IP 66, protection against strong jets of water).



VERNO RAIL

**THE ENTIRE
GUIDANCE
SYSTEM FROM A
SINGLE SOURCE.
ALSO FOR
PEDESTRIANS.**





Well-lit paths, stairways and underpasses not only contribute to traffic safety, but they also demonstrably increase the personal sense of security. Pedestrians, senior citizens and children benefit the most. With VERNO RAIL, a lighting system integrated into the handrail, NORKA offers you an efficient solution that blends in conspicuously inconspicuously into the architectural planning. VERNO RAIL can be used in a wide range of applications, from road and railway tunnels to pedestrian underpasses, stairwells and ramps. NORKA therefore now offers you foot traffic guidance from a single source.

THIS IS HOW YOU CAN BEST SET THE SCENE FOR STAIRWAYS AND ESCAPE ROUTES WITH VERNO RAIL:

- VERNO RAIL is a modular LED lighting system integrated into the handrail, which can also be flexibly installed separately.
- VERNO RAIL always ensures efficient and uniform illumination of escape routes and danger zones.
- Rely on robust, low-maintenance and long-lasting luminaires: All electronic components are hermetically sealed. VERNO RAIL is suitable for machine cleaning.
- Save power and money: The luminaire modules of VERNO RAIL are characterized by a high energy efficiency (up to 0.6 W/m).



Safety that not only looks good, but also serves its purpose.

LIGHTING CAN BE REPLACED WITH GREAT EFFORT - OR SIMPLY RETROFITTED.

Maintenance work in tunnels, whether planned or unplanned, usually leads to unwanted traffic disruptions. This also applies to older tunnels whose entrance or passageway lighting needs to be replaced as part of retrofitting programmes for LED technology. To ensure that ongoing traffic operations are impaired as little as possible, NORKA offers you VERNO FIT, a future-proof lighting system that enables fast and easy retrofitting. For example, VERNO FIT only requires retrofitting of lamps and drivers. The stainless steel housing remains the same. True to the motto: Tunnel lighting can be replaced with great effort - or simply retrofitted.

THIS IS HOW YOU CAN EASILY RETROFIT WITH VERNO FIT TUNNEL LIGHTING:

- VERNO FIT enables you to reduce blocking times by quickly and easily retrofitting current FL, NaH and HiT lights with future-proof LED technology.
- With VERNO FIT, only the lamp and driver need to be replaced. The housing remains in place.
- With VERNO FIT, you can ensure flowing traffic with tunnel lighting that complies with the latest legal requirements and offers you a broad range of light distributions as well as a high level of reliability.
- Save time, money and manpower with VERNO FIT thanks to single-person mounting.
- Rely on robust, low-maintenance and long-lasting LED modules with a service life of up to 100,000 hours and a 5-year warranty.



