

VYRTYCH



KERN-EX1/21

COMPACT AND EMERGENCY LUMINAIRE FOR HAZARDOUS AREAS



Compact and emergency luminaire for hazardous areas.

KERN is the first model of the new generation of VYRTYCH luminaires, designed specifically for technical rooms and industrial operations in hazardous environments. With its compact construction and high durability, it delivers reliable lighting where safety comes first.

The luminaire combines an efficient LED source with a robust polycarbonate housing. Resistant to dust, water, UV radiation, and impacts, KERN is the ideal choice for demanding industrial environments.

Cable glands - Standard configuration for plastic or metal cable glands 3xM20 with LOOP IN-LOOP OUT wiring. On request also available in size M25.

Breathing glands - Option to use a breather gland to eliminate water condensation in humid environments.

Silicone gasket - Resistant to chemicals, oils, high temperatures, and aging, ensuring long-term sealing even under demanding conditions.

LED indicator - Used to display the battery status in the emergency mode – allows easy inspection without the need to open the luminaire.

Housing - Plastic material PC (polycarbonate), color grey RAL 7035 – mechanically resistant with IK08 rating and suitable for demanding environments.

Cover - Plastic material PC (polycarbonate), opal, ensures uniform light diffusion, UV stability, and long service life even in outdoor applications.

Electronic driver - Encapsulated electronic driver in ON/OFF or DALI2 control.

LED module - Encapsulated robust LED module with long lifetime, 5000K, CRI >80, MacAdam 3. Also available on request in 3000/4000/6500K versions.



Here you can watch a video with details about the luminaire.

PARAMETERS

IECEX

ATEX

RoHS

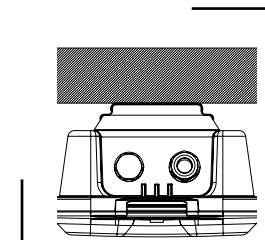
CE

VERSION	COMPACT	COMPACT + BATTERY	EMERGENCY
Dimensions	395 x 195 x 110 mm	395 x 195 x 110 mm	395 x 195 x 110 mm
Luminous flux	1742 lm	1742 lm / 441 lm (emergency)	441 lm
Colour temperature	5000 K		
Housing material	PC - polycarbonate		
Cover material	PC - polycarbonate, opal		
ATEX zone	1/21		
ATEX zone - dust	Ex II 2D Ex tb IIIC T85°C Db		
ATEX zone - gas	Ex II 2G Ex eb mb IIC T4 Gb		
IECEX zone - dust	Ex tb IIIC T85°C Db		
IECEX zone - gas	Ex eb mb IIC T4 Gb		
IP classification	IP66/IP67		
IK classification	IK08		
Operating temperature	-30°C≤ta≤50°C	0°C≤ta≤35°C	0°C≤ta≤45°C
Control method	ON/OFF, DALI2	ON/OFF, DALI2, Maintained emergency 3h AUTOTEST	Non-maintained emergency 3h AUTOTEST/DALI

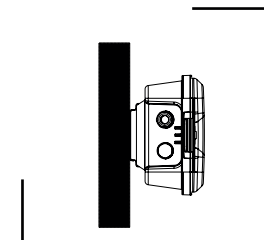
 Details of all variants here

Long service life is ensured by high technical parameters.

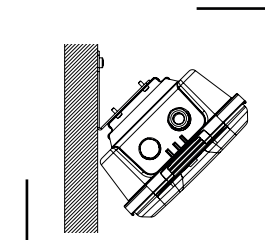
INSTALLATION



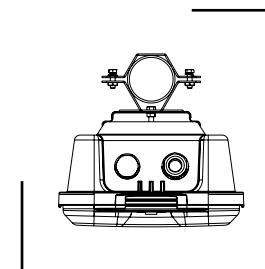
CEILING



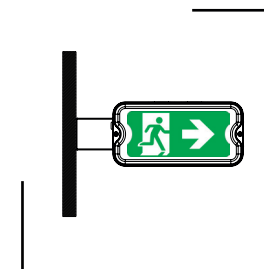
WALL



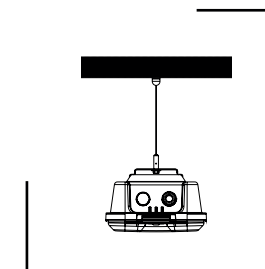
ANGLED



POLE



SIDE WALL



SUSPENDED

 Installation instructions here

Easy and flexible installation for every space.

KERN adapts to your needs – whether mounted on the ceiling, fixed to the wall, suspended on wires, or tilted for directional lighting. Its compact design and smart mounting options ensure quick installation and reliable performance, even in confined or demanding environments.



EMERGENCY VERSION

Non-maintained emergency luminaires - operates only in case of a power failure for 3 hours.



Pictograms – visibility up to 30 meters.

Maintained emergency luminaires - Operates at full luminous flux in normal mode, reduced flux for 3 hours during power failure.

CONTROL METHODS

	 REMOTE	 WALK	 TESTING	 VISION CONTROL	 NOTED
MANUAL TESTING	✗	✓	✓	✓	✓
AUTOTEST	✗	✓	✗	✓	✓
REMOTE AUTOMATED CONTROL	✓	✗	✗	✗	✗

By choosing the right emergency lighting control method, significant savings can be achieved. It minimizes the time required for maintenance and reduces overall operating costs.



Emergency version ensuring safety when it matters most.

Manual testing is time-consuming, as it requires regular technician interventions. Luminaires with self-test perform the check automatically and indicate a fault directly on the luminaire. Even greater efficiency is provided by monitoring via the DALI system, which enables central management, automatic tests, and an overview of the status of all luminaires from a single point.

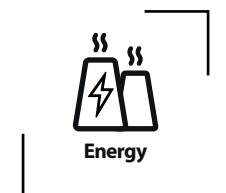
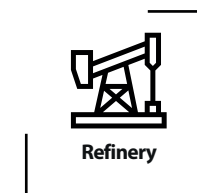
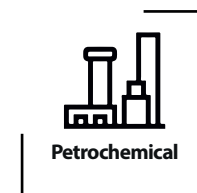
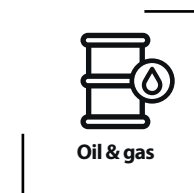
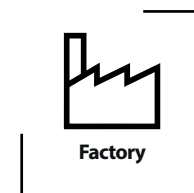


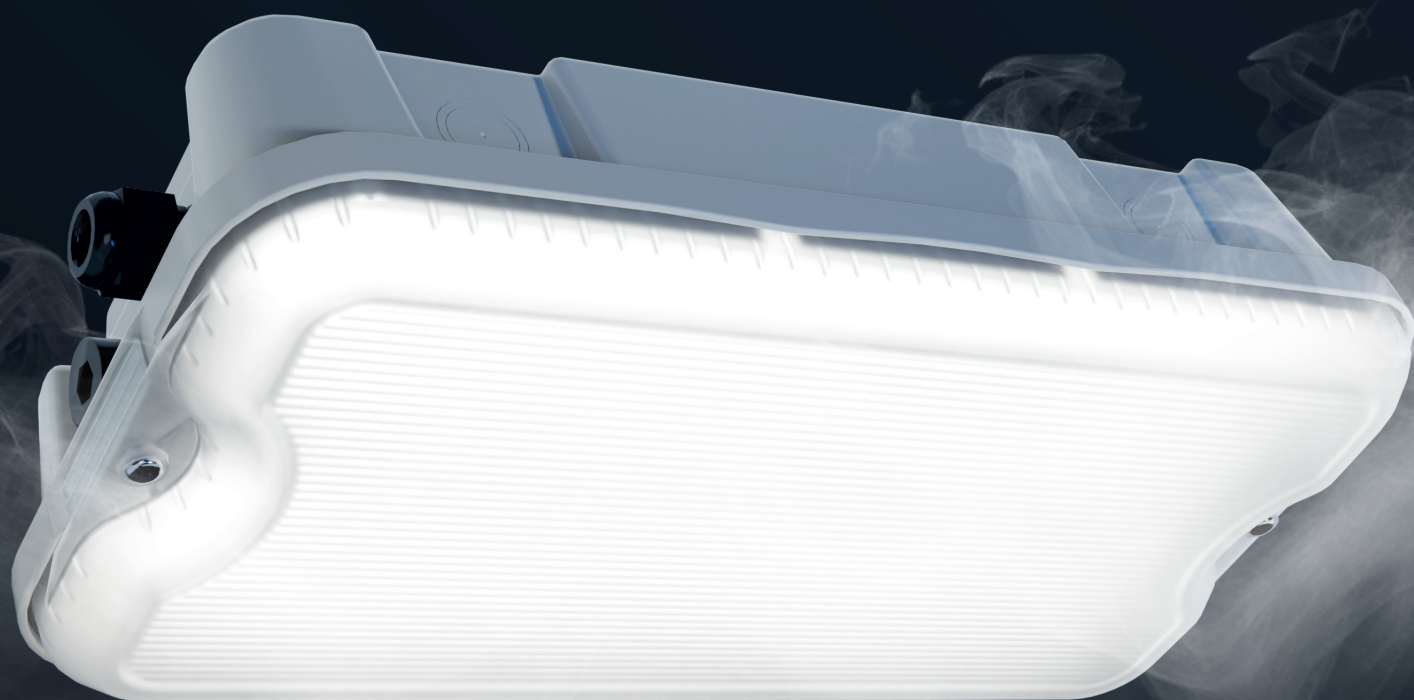
AREAS OF USE

The KERN luminaire combines durability, reliability, and safe operation in hazardous areas.

With its uniform, glare-free light output and flexible modular design, it is the ideal solution for a wide range of applications – from manufacturing plants to the oil & gas industry, petrochemicals, refineries, and the energy sector.

Emergency version ensuring safety when it matters most.





VYRTYCH

We are a Czech manufacturer of industrial lighting with over 35 years of experience. We specialize in a broad portfolio of industrial and specialty luminaires designed for a wide range of sectors, including oil & gas, chemical and pharmaceutical industries, healthcare, manufacturing, and more.

We manufacture luminaires for hazardous areas, extreme temperatures, cleanrooms, anti-vandal applications, and industrial environments. All our products are distinguished by superior technical performance. Our claim Safety and Innovation reflects our commitment to safety and the continuous improvement of our luminaires.

We focus on the production of specialized luminaires designed for demanding industrial sectors and applications, such as oil & gas, chemical and pharmaceutical industries, energy, transportation, healthcare, manufacturing, public sector, food processing, and the automotive industry.

www.vyrtych.cz

