

## KERN-EX1/21

IP66/IP67

ZONE 1/21



### Description

The KERN is a compact industrial and emergency luminaire designed for ATEX Zone 1/21 hazardous areas. The body is made of robust polycarbonate (RAL 7035) and is UV stable, ensuring long-term durability. The housing is made of opal polycarbonate, which provides effective light diffusion and high impact resistance. The luminaire is available in different chromaticity temperatures to adapt to different environments. The luminaire can be equipped with a dimming function on request. The emergency version is equipped with a magnetic switch that allows control of the emergency function without opening the luminaire. Designed to be mounted and hinged.

#### ADVANTAGES:

- European product – made in the Czech Republic
- ATEX/IECEx certification – zone 1/21
- Compact size
- Robust IK08 body
- High water and dust resistance IP66/IP67
- Emergency mode function control without opening the luminaire
- UV resistance
- High specific output up to 126 lm/W
- DALI2 control
- Wide temperature resistance from -30 °C to +50 °C

## Specifications

**Operating voltage:**

220-240 V / 50/60 Hz AC, 220-240 V DC

**Source:**

LED, 5000K, CRI +80, MacAdam3

**Housing:**

Plastic material PC (polycarbonate), colour grey RAL 7035

**Cover:**

PC (polycarbonate) opal

**Fastening:**

Direct fixing to the ceiling or wall of the illuminated space by means of two self-locking fixing pens (standard equipment), self-locking cable suspension on two fixing pens, cable suspension by means of suspension lugs.

**Connection:**

Screwless three-pole terminal block, max. wire cross-section 2.5 mm<sup>2</sup>

**Standard equipment:**

2x Ex plastic cable gland M20 for cable diameter 7-13 mm incl. gasket, 2x Ex plastic cable plug M20 incl. gasket, 2x gripping pen (AISI304)

**Calculated lifetime – LED modules:**

L80B50 Ta 50 – 63 000 h

L90B50 Ta 25 – 110 000 h

**KERN-EX1/21 ATEX – Zone 1/21 (FTZÚ 25 ATEX 0017X)**

II 2G Ex eb mb IIC T4 Gb



II 2D Ex tb IIIC T85°C Db

**KERN-EX1/21 IECEx – Zone 1/21 (IECEx FTZÚ 25.0012X)**

Ex eb mb IIC T4 Gb

Ex tb IIIC T85°C Db

**On request:**

4000K/5000K/6500K – chromaticity temperature

**On order**

## **Variants**

| Number items | Name of variant                        | Luminous flux (lm) | Luminous flux in an emergency mode (lm) | Specific power luminaires | Power input (W) | Ta (°C)       | Tc (K) | Dimensions A x B x C (mm) |
|--------------|----------------------------------------|--------------------|-----------------------------------------|---------------------------|-----------------|---------------|--------|---------------------------|
| 63584        | KERN-EX1/21-J-L04-840-1900-0ND-08-PD   | 1742               | –                                       | 116 lm/W                  | 15              | -30°C≤ta≤50°C | 4000   | 395 x 195 x 122           |
| 63585        | KERN-EX1/21-J-L04-840-1900-0D2-08-PD   | 1742               | –                                       | 116 lm/W                  | 15              | -30°C≤ta≤50°C | 4000   | 395 x 195 x 122           |
| 63586        | KERN-EX1/21-J-L04-840-1900-NM3A-08-PD  | 1742               | 441                                     | 116 lm/W                  | 15              | 0°C≤ta≤35°C   | 4000   | 395 x 195 x 122           |
| 63587        | KERN-EX1/21-J-L04-840-1900-ND3D2-08-PD | 1742               | 441                                     | 116 lm/W                  | 15              | 0°C≤ta≤35°C   | 4000   | 395 x 195 x 122           |
| 63588        | KERN-EX1/21-J-L04-840-400-NNM3A-08-PD  | –                  | 441                                     | –                         | 3,5             | 0°C≤ta≤45°C   | 4000   | 395 x 195 x 122           |
| 63589        | KERN-EX1/21-J-L04-840-400-NNMD3-08-PD  | –                  | 441                                     | –                         | 3,5             | 0°C≤ta≤45°C   | 4000   | 395 x 195 x 122           |
| 65509        | KERN-EX1/21-J-L04-850-1900-0ND-08-PD   | 1751               | –                                       | 117 lm/W                  | 15              | -30°C≤ta≤50°C | 5000   | 395 x 195 x 122           |
| 65510        | KERN-EX1/21-J-L04-850-1900-0D2-08-PD   | 1751               | –                                       | 117 lm/W                  | 15              | -30°C≤ta≤50°C | 5000   | 395 x 195 x 122           |
| 65511        | KERN-EX1/21-J-L04-850-1900-NM3A-08-PD  | 1751               | 439                                     | 117 lm/W                  | 15              | 0°C≤ta≤35°C   | 5000   | 395 x 195 x 122           |
| 65512        | KERN-EX1/21-J-L04-850-1900-ND3D2-08-PD | 1751               | 439                                     | 117 lm/W                  | 15              | 0°C≤ta≤35°C   | 5000   | 395 x 195 x 122           |

Luminous flux and luminaire power tolerance ±10%

## **Accessories**

### **KERN protective cage – L04**

Item number: **62858**  
Product type: **001610-RAL9016**



### **Pictogram KERN – with escape route to the left**

Item number: **62832**  
Product type: **009466**



### **Pictogram KERN – with escape route to the right**

Item number: **62833**  
Product type: **009467**



### **Pictogram KERN – with escape route downstairs**

Item number: **62834**  
Product type: **009468**



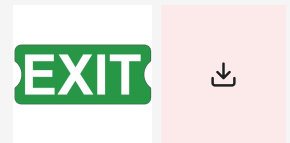
### **Pictogram KERN – with escape route upstairs**

Item number: **62835**  
Product type: **009469**

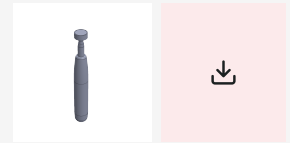


**Pictogram KERN – with EXIT**

Item number: **62836**  
Product type: **009470**


**Telescopic magnet**

Item number: **63023**  
Product type: **038013**


**Tightening wrench for cable glands**

Item number: **63024**  
Product type: **038014**


**Set of pole brackets (Ø 60 mm), AISI304 (2 pcs)**

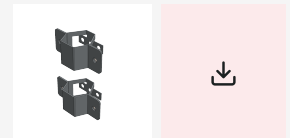
Item number: **60089**  
Product type: **051093**


**Set of pole brackets (Ø 50 mm), AISI304 (2 pcs)**

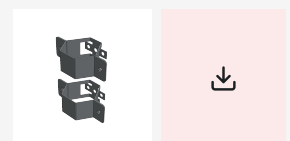
Item number: **60090**  
Product type: **051094**


**Set of pole brackets (Ø 42 mm), AISI304 (2 pcs)**

Item number: **60091**  
Product type: **051095**


**Set of pole brackets (Ø 60 mm), AISI316 (2 pcs)**

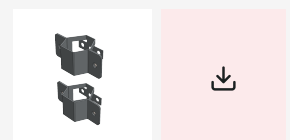
Item number: **66929**  
Product type: **051125**


**Set of pole brackets (Ø 50 mm), AISI316 (2 pcs)**

Item number: **66930**  
Product type: **051126**

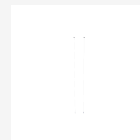

**Set of pole brackets (Ø 42 mm), AISI316 (2 pcs)**

Item number: **66931**  
Product type: **051127**



**Cable suspender – 3 m (2 pcs)**

Item number: **3575**  
Product type: **051131**


**Set of wall brackets – angle 45° KERN, AISI304 (2 pcs)**

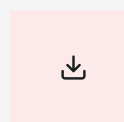
Item number: **63139**  
Product type: **051159**


**KERN accessories– glands for armored cable**

Item number: **63458**  
Product type: **051162**


**KERN – Grounding washer under cable glands (1 pc)**

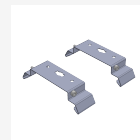
Item number: **66889**  
Product type: **051163**


**Set of wall brackets – angle 45° KERN, AISI316 (2 pcs)**

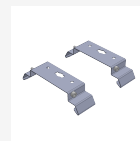
Item number: **66937**  
Product type: **051164**


**Set of fastening bracket KERN – IK10 (AISI304) – (2 pcs)**

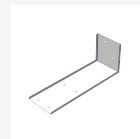
Item number: **66947**  
Product type: **051165**


**Set of fastening bracket KERN – IK10 (AISI316L) – (2 pcs)**

Item number: **66948**  
Product type: **051166**


**Wall bracket**

Item number: **6902**  
Product type: **061066**



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