

KERN-EX2/21

IP66/IP67

ZONE 2/21



Description

KERN is a compact industrial and emergency luminaire designed for explosion hazardous environments for ATEX zone 2/21. 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 2/21
- 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 167 lm/W
- Wide temperature resistance from -30 °C to +60 °C (depending on luminaire variant)
- Control with certified DALI2 driver

Specifications

Operating voltage:

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

Source:

LED, 4000K/6500K, 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 bracket (standard equipment), self-locking cable suspension on two fixing brackets, cable suspension by means of suspension lugs.

Connection:

Screwless three-pole terminal block, max. wire cross-section 2.5 mm²

Standard equipment:

1x Ex plastic cable gland M20 for cable diameter 7-13 mm incl. gasket, 2x Ex plastic cable plug M20 incl. gasket, 2x stainless steel fixing bracket (AISI304)

Calculated lifetime – LED modules:

L80B50 Ta 50 – 110 000 h

L90B50 Ta 25 – 110 000 h

KERN-EX2/21 ATEX – zone 2/21 (FTZÚ 25 ATEX 0018X)

II 3G Ex nR IIC T6 Gc



II 2D Ex tb IIIC T85°C Db

KERN-EX2/21 IECEx – Zone 2/21 (IECEx FTZÚ 25.0013X)

Ex nR IIC T6 Gc

Ex tb IIIC T85°C Db

On request

5000K – colour temperature

SILICONE-FREE – upon request (KERN-EX2/21-H)

09 – 3xM25 hole

ND – ON/OFF luminaire

D2 – DALI2 luminaire

NM3 – ON/OFF luminaire + emergency 3h

NM3A – ON/OFF luminaire + emergency 3h, AUTOTEST

ND3D2 – DALI2 luminaire + emergency 3h, DALI

NNM3 – emergency luminaire 3h

NNM3A – emergency luminaire 3h, AUTOTEST

NNMD3 – emergency luminaire 3h, DALI

CB – central battery system

Variants

Number items	Name of variant	Luminous flux (lm)	Specific power luminaires	Power input (W)	Ta (°C)	Dimensions A x B x C (mm)
63391	KERN-EX2/21-G-L04-840-1200-0ND-08-PD	1086	155 lm/W	7	-30°C≤ta≤60°C	395 x 195 x 122
63392	KERN-EX2/21-G-L04-840-1800-0ND-08-PD	1640	164 lm/W	10	-30°C≤ta≤55°C	395 x 195 x 122
63393	KERN-EX2/21-G-L04-840-2400-0ND-08-PD	2148	165 lm/W	13	-30°C≤ta≤55°C	395 x 195 x 122
63394	KERN-EX2/21-G-L04-840-2900-0ND-08-PD	2674	167 lm/W	16	-30°C≤ta≤50°C	395 x 195 x 122
63395	KERN-EX2/21-G-L04-840-3400-0ND-08-PD	3189	159 lm/W	20	-30°C≤ta≤50°C	395 x 195 x 122
63396	KERN-EX2/21-G-L04-840-4000-0ND-08-PD	3663	159 lm/W	23	-30°C≤ta≤45°C	395 x 195 x 122
63590	KERN-EX2/21-G-L04-840-1200-NM3-08-PD	1086	155 lm/W	7	0°C≤ta≤40°C	395 x 195 x 122
63610	KERN-EX2/21-G-L04-840-1800-NM3-08-PD	1640	164 lm/W	10	0°C≤ta≤40°C	395 x 195 x 122
63591	KERN-EX2/21-G-L04-840-2400-NM3-08-PD	2148	165 lm/W	13	0°C≤ta≤40°C	395 x 195 x 122
63592	KERN-EX2/21-G-L04-840-2900-NM3-08-PD	2674	167 lm/W	16	0°C≤ta≤30°C	395 x 195 x 122
63593	KERN-EX2/21-G-L04-840-3400-NM3-08-PD	3189	159 lm/W	20	0°C≤ta≤30°C	395 x 195 x 122
63594	KERN-EX2/21-G-L04-840-4000-NM3-08-PD	3663	159 lm/W	23	0°C≤ta≤30°C	395 x 195 x 122
63607	KERN-EX2/21-G-L04-840-400-NNM3-08-PD	438	175 lm/W	2,5	0°C≤ta≤45°C	395 x 195 x 122
63608	KERN-EX2/21-G-L04-840-400-NNM3A-08-PD	438	175 lm/W	2,5	0°C≤ta≤45°C	395 x 195 x 122
63609	KERN-EX2/21-G-L04-840-400-NNMD3-08-PD	438	175 lm/W	2,5	0°C≤ta≤45°C	395 x 195 x 122
65685	KERN-EX2/21-G-L04-840-800-0CB-08-PD	–	–	–	-30°C≤ta≤60°C	395 x 195 x 122

Luminous flux and luminaire power tolerance ±10%

You can view the variant detail via the item number.

Accessories

KERN protective cage – L04

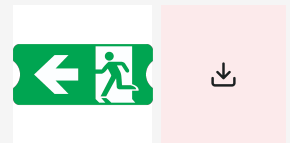
Item number: **62858**

Product type: **001610-RAL9016**



Pictogram KERN – with escape route to the left

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



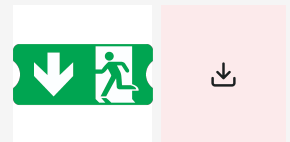
Pictogram KERN – with escape route to the right

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



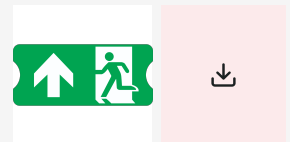
Pictogram KERN – with escape route downstairs

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



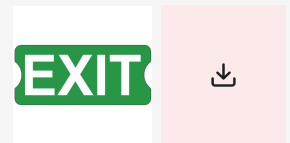
Pictogram KERN – with escape route upstairs

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



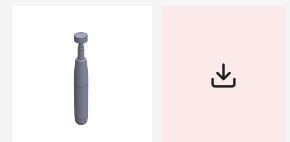
Pictogram KERN – with EXIT

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 (2"), M5, AISI304 (2 pcs)

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



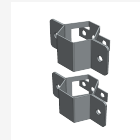
Set of pole brackets Ø 50 mm (1 1/2"), M5, AISI304 (2 pcs)

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

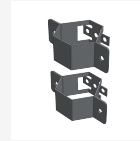


Set of pole brackets Ø 42 mm (1 1/4"), M5, AISI304 (2 pcs)

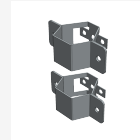
Item number: **60091**
Product type: **051095**

**Set of pole brackets Ø 60 mm (2"), M5, AISI316 (2 pcs)**

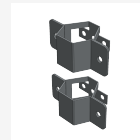
Item number: **66929**
Product type: **051125**

**Set of pole brackets Ø 50 mm (1 1/2"), M5, AISI316 (2 pcs)**

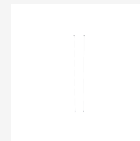
Item number: **66930**
Product type: **051126**

**Set of pole brackets Ø 42 mm (1 1/4"), M5, 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**

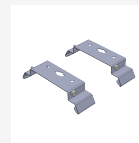
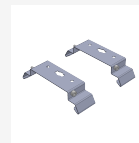
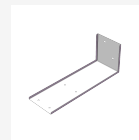
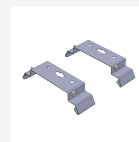
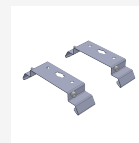
**KERN – Grounding washer under cable glands (1 pc)**

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

**Set of wall brackets – 45° angle, KERN AISI 316 (2 pcs)**

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



KERN Mounting Pin Set – IK10 – AISI 304 (2 pcs)Item number: **66947**Product type: **051165****KERN Mounting Pin Set – IK10 – AISI 316L (2 pcs)**Item number: **66948**Product type: **051166****Wall bracket**Item number: **6902**Product type: **061066****Spare parts****KERN Mounting Pin Set – IK10 – AISI 304 (2 pcs)**Item number: **66947**Product type: **051165****KERN Mounting Pin Set – IK10 – AISI 316L (2 pcs)**Item number: **66948**Product type: **051166****KERN Mounting Pin Set – AISI 304 (2 pcs)**Item number: **69104**Product type: **051193****KERN Mounting Pin Set – AISI 316L (2 pcs)**Item number: **69105**Product type: **051194****KERN-EX2 Cover – L04**Item number: **75160**Product type: **051284**

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