

Luminaires Catalogue 2010







Others say they had it..... We have it!

Every electric and electronic equipment in Germany subjects EMV - standards or EMV - law. Therewith all luminaires are concerned, too. If luminaires do not content any electronic (like for example bulbs with conventional 50Hz transformator), no assessment is necessary. Contrariwise equipment with electronic has to achieve requirements of Electromagnetic interference (standard DIN EN 55015-VDE 0875 -15-1 - 2009-11).

Equipment which does not follow those thresholds can disturb radiotraffic or radio reception. Partially high emission only appears during emergency operation, which is eminently fatal, because emergency radio service (firefighters, rescue service) might be disturbed in their communication. Especially in range of firefighters and aircraft radio, conventional technique is used, which cannot balance Electromagnetic interference by luminaires.

Therefore in standard EN 55015 is an additional checking for emergency operation prescribed.

A reliable seal of approval by an independent institute (e.g. VDE) therefore is eminently important for a purchaser. The CE - seal does not approve any conclusion about compliance with standards, because it is applied by the manufacturer himself.

> Our luminaire KL10 is the only one that bears the EMC seal of approval by the VDE!





Contents



Luminaire KL10 Self contained, VDE - certificated

Page 6



Luminaire KL11 Central Battery, VDE - certificated

Page 10



Luminaire KL12 For maritime using

Page 14



Luminaire KL13 High - Power - Battery For events and event managing companies

Page 18



Luminaire KL16 Aluminium-encased luminaire with additional light-discharge below

Page 22



Accessories

Page 25





About our luminaire KL10

In cooperation with the VDE institute in Offenbach, which provides the standards for luminaires, we developed the luminaire KL10 within the last 2 years. Developing a luminaire does not leave much room for creative designing: A luminaire has to accord the provided standards. It has to work and achieve its assignment as life-saver. Regardless it can set apart: Optical, qualitative, with clarity of layout, excellent using, chosen materials, durability. Our KL10 can show all these characteristics. We also disclaimed of unnecessary components, to minimize the material consumption and to safe capabilities.

Optic: By developing the KL10 we attached great importance on a "not disturbing" - look. It is apparitional without being annoying; as small as possible and as big as necessary. Businesslike and representing, optical definite in orthogonal clarity of layout, it is discreet but highly visible during an emergency.

Quality: The VDE is an institution which provides standards for luminaires. The KL10 is the only self contained luminaire, which is successfully proved and certificated by the VDE. This means, without taking too far, it is technically perfect!

Usability: Only two screws are to be taken off to get access to every function of the luminaire. Battery and LED-ridge are replaceable with minimum effort. We developed pictograms which can be clipped onto the display. This minimizes storage and helps the assembler with his work.

Material: For the outside of our luminaires we chose fine materials like anodised aluminium and acryl glass. Durable, robust, discreet and still it is technically perfect.

Function: We achieved homogenous light allocation by special arranged surface, which sets standards and guarantees highest percebtibility, even across major distances. Even in environmental sustainability our luminaires are conclusive. All parts of our luminaires are RoHS-proofed and therefore accredited environmentally friendly. Fully automated self-control simplifies required controls. Of course we use NiMH batteries.









Darkness...









Security: The luminaire KL10

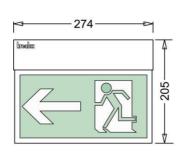
- Each of our KL10 luminaires bears the VDE seal of approval, the VDE emc - seal and the GostR - seal for russian market.
- Highly modern LED strips discharge energy consumption by their high effectiveness.
- homogenous light allocation by special arranged surface sets standards and guarantees highest perceptibility.
- Fully automated self control ensures constant functionality.
- Permanent manufacturing control by the VDE institute ensures enduring, constant quality.

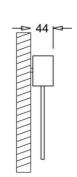
The KL10 is the only successfully proved and certificated luminaire. This means, it is technically perfect!



Type KL10-25



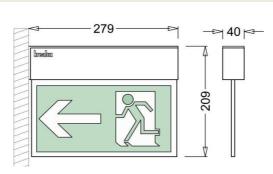




Order-Number: KL10-2503-WM Self-contained luminaire VDE - proved Recognition distance 25m

Wall mounting





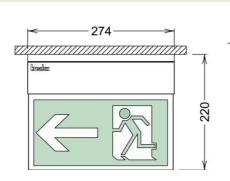
Order-Number: KL10-2503-WA Self-contained luminaire

VDE - proved

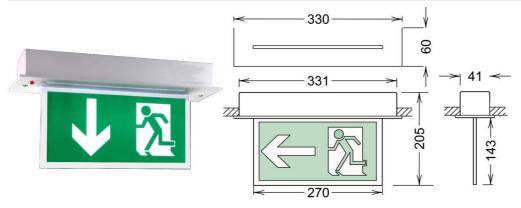
Recognition distance 25m

Wall arm mounting





Order-Number: KL10-2503-DM Self-contained luminaire VDE - proved Recognition distance 25m Ceiling mounting



Order-Number: KL10-2503-DE Self-contained luminaire

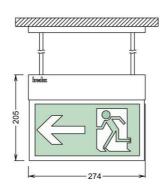
VDE - proved

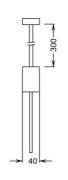
Recognition distance 25m Recessed ceiling mounting



Type KL10-25

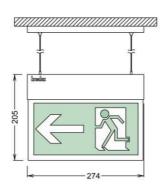


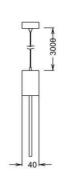




Order-Number: KL10-2503-PM Self-contained luminaire VDE - proved Recognition distance 25m Pendulum mounting

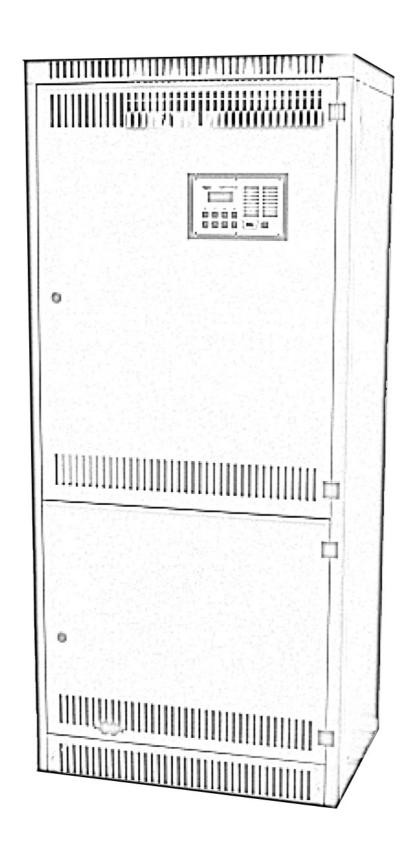






Order-Number: KL10-2503-PM Self-contained luminaire VDE - proved Recognition distance 25m Pendulum mounting











Reliable: The luminaire KL11

Same cover as KL10, other content: Our luminaire KL11. It is created for central battery systems, with the same technology as our KL10 luminaire.

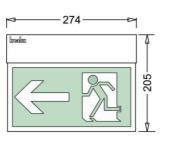
Also the KL11 has the VDE test seal.

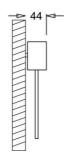
Functional control occurs by measurement of streams durable - and attendance - light. Deviations which exceed a certain tolerance, are registered in sector = luminaire - defects.



Type KL11-25



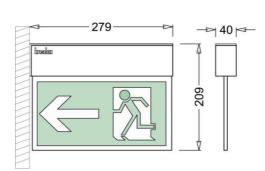




Order-Number: KL11-2503-WM For central battery operation VDE - proved Recognition distance 25m

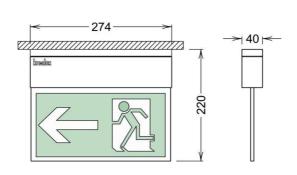
Wall mounting



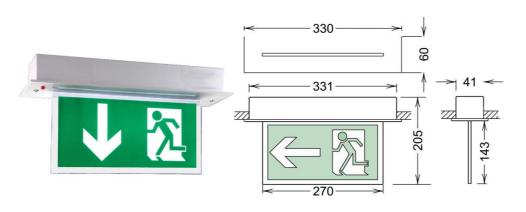


Order-Number: KL11-2503-WA For central battery operation VDE - proved Recognition distance 25m Wall arm mounting





Order-Number: KL11-2503-DM For central battery operation VDE - proved Recognition distance 25m Ceiling mounting

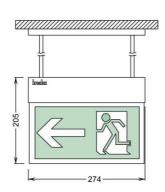


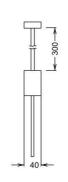
Order-Number: KL11-2503-DE For central battery operation VDE - proved Recognition distance 25m Recessed ceiling mounting



Type KL11-25

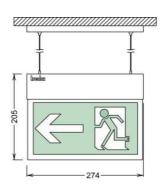


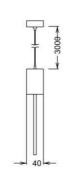




Order-Number: KL10-2503-PM Self-contained luminaire VDE - proved Recognition distance 25m Pendulum mounting

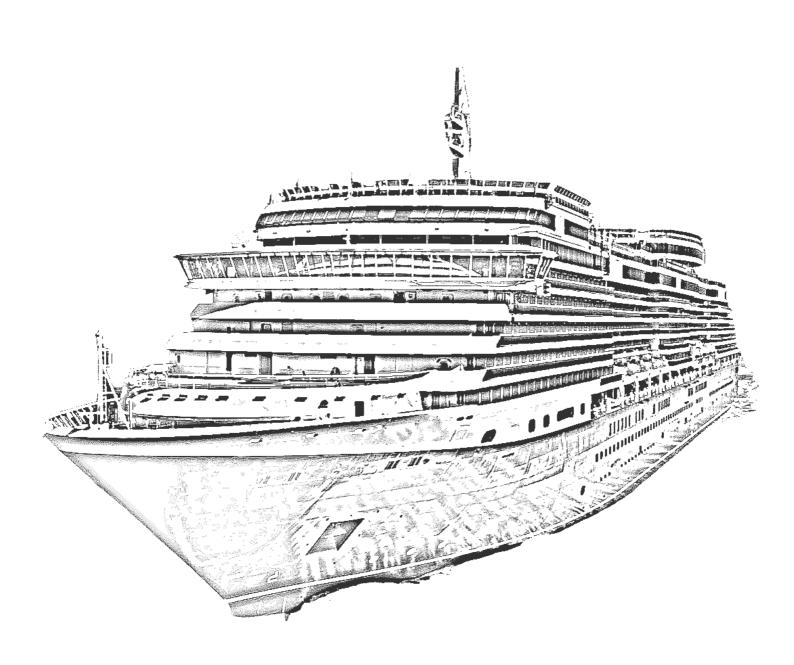






Order-Number: KL10-2503-KM Self-contained luminaire VDE - proved Recognition distance 25m Chain mounting









Darkness...



Seaworthy: The luminaire KL12

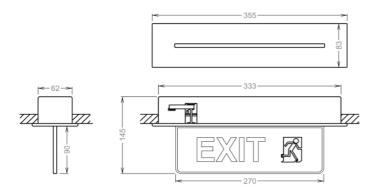
According to the differential architecture of ships, our exit sign displays are not higher than 90mm. As with VDE - proved luminaires we only use best materials and we guarantee best workmanship. For this kind of luminaire there is no inspection specification because of its special appliance. The VDE can not accord a proof - seal. We can manufacture every size and version of display on demand.

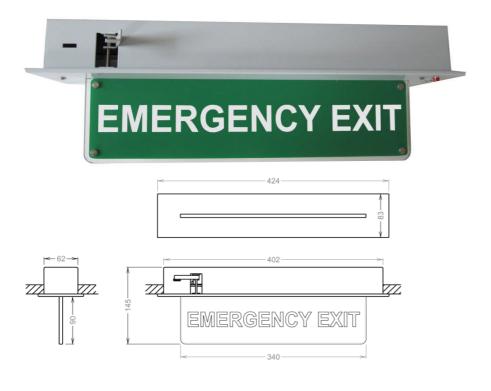


Type KL12-25/32



Order-Number: KL12-2501-DE Self-contained luminaire Recognition distance 25m Recessed ceiling mounting





Order-Number: KL12-3201-DE Self-contained luminaire Recognition distance 32m Recessed ceiling mounting



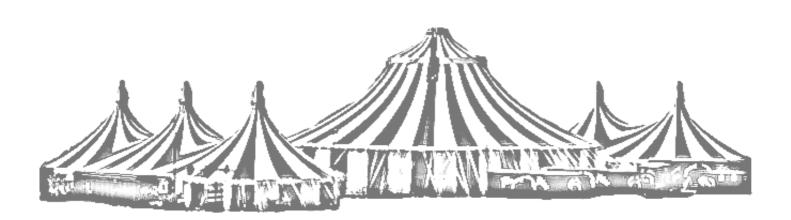
LUMINAIRE KL12-25 FOR SHIPS

Accessories - Changeable-pictograms

Order number:	Order number:
ZKL12-25-ES-WG EXIT	ZKL12-25-ES-WR EXIT
ZKL12-25-ES-GW EXIT	ZKL12-25-ES-RW EXIT
ZKL12-25-PR-WG	ZKL12-25-PR-WR
ZKL12-25-PL-WG	ZKL12-25-PL-WR
ZKL12-25-PR-GW	ZKL12-25-PR-RW
ZKL12-25-PL-GW	ZKL12-25-PL-RW
ZKL12-25-EO-WG EXIT	ZKL12-25-EO-WR EXIT
ZKL12-25-EL-WG	ZKL12-25-EL-WR
ZKL12-25-ER-WG EXIT	ZKL12-25-ER-WR
ZKL12-25-EB-WG ◀EXIT ▶	ZKL12-25-EB-WR
ZKL12-25-EO-GW EXIT	ZKL12-25-EO-RW
ZKL12-25-EL-GW	ZKL12-25-EL-RW
ZKL12-25-ER-GW EXIT	ZKL12-25-ER-RW
ZKL12-25-EB-GW ▼EXIT ►	ZKL12-25-EB-RW

Changeable-pictograms are available in every size and colour on demand.









Longrunner: The luminaire KL13

Festival organizers with so called "flying buildings", event agencies and probably every circus are aware of the problem: Emergency exit signs have to be installed and mainly wired. Our self-contained KL13 is charged during the day and when the night comes, it shows the secure way through dark in reliably luminosity. A simple hanging suffices; the wiring is not longer required.

For this kind of luminaires there is no inspection specification. The VDE cannot accord a test - seal.

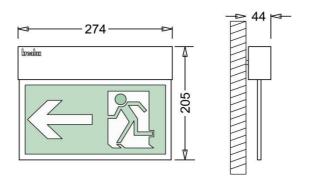
We guarantee durable quality and functional reliability by using the same prefabricated parts as in our KL10 luminaire.



Type KL13-25

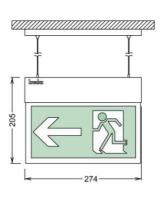


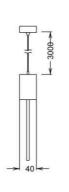
Order-Number: KL13-2508-WM Self-contained luminaire Rated duration 8h Recognition distance 25m Wall mounting



Order-Number: KL13-2512-WM Self-contained luminaire Rated duration 12h Recognition distance 25m Wall mounting







Order-Number: KL13-2508-KM Self-contained luminaire Rated duration 8h Recognition distance 25m Chain mounting

Order-Number: KL13-2512-KM Self-contained luminaire Rated duration 12h Recognition distance 25m Chain mounting Battery charger: See accessories

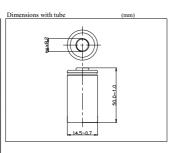


12h Nickel Metal Hydride Rechargeable Battery

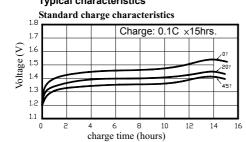
8h Nickel Metal Hydride Rechargeable Battery

H-AA2000B

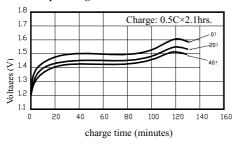
			1	
1	Nominal voltage		1.2V	
Capacity			0.2C	0.5C
			Discharge	Discharge
		Minimum	288min	113min
	1	Typical	302min	118min
Dimensions			mm	
		Diameter	14.	
		Height	50.0-1.0	
We	ight(Approxim	nataly)	克 gram	
***	igiii(Approxiii	iatery)	29.4	
Intornal	Immodonoo	A+ 1000 Ha	35m? (Max)	
memai	Internal Impedance At 1000 Hz		(After Charge)	
Channe	Standard Rapid		220mA(0.1C)×15hrs	
Charge			1100mA(0.5C)×2.1hrs	
Ambient emperature			1	?
	Charge	standard	0? to	40?
		Rapid	0? to	40?
Discharg			-20? to 50?	
Storage			-20? to 30?	



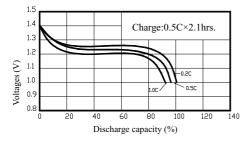
Typical characteristics



Rapid charge characteristics



Discharge characteristics



H-AA1500B Specifications Nominal Voltage 1.2V Internal Impedance (at 1000Hz) Rapid Charge 750mA x2.4h Discharge Cut-off Voltage 1.0V Max Dimension (with tube Diameter 14.5mm 49.0mm Height Weight 26 ±1g Operating Temperature Charge Discharge

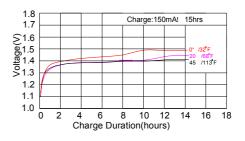
Standard charge characteristics

Storage Temperature Within 1 month

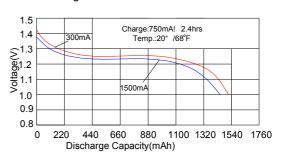
Within 6 month

-5 ~ 35

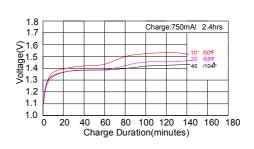
0 ~ 35



Discharge characteristics



Fast charge characteristics











Classic: The luminaire KL16

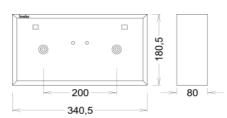
Still strong demanded: The classic - "old fashioned" luminaire with aluminium enclosure. We reacted on to the various inquiries for a robust, reliable and also excellent value luminaire, and therefore developed the KL16. Like all our luminaires it exhibits best materials, best converting, best quality. With fully automated self - control, available as LED or T5 - version.

Also for the KL16 the VDE certification is in preparation.



Type KL16-32 version LED - strip





Order-Number: KL16-3203-WML Self-contained luminaire Aluminium enclosure Recognition distance 32m Wall mounting

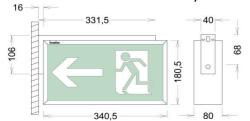


Order-Number: KL16-3203-UML Self-contained luminaire Aluminium enclosure Recognition distance 32m

The luminaire KL16-3203-UML suits for

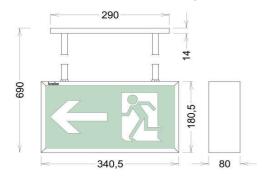
Wall arm mounting

Order number for assembly-kit: KL16-32WA



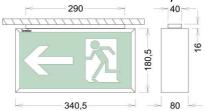
Pendulum mounting

Order number for assembly-kit: KL16-32PM



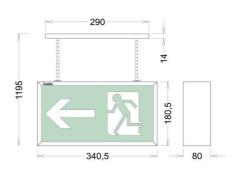
Ceiling mounting

Order number for assembly-kit: KL16-32DM



Chain mounting

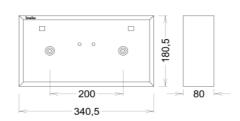
Order number for assembly-kit: KL16-32KM





Type KL16-32 version T5 - tube





Order-Number: KL16-3203-WMT Self-contained luminaire Aluminium enclosure Recognition distance 32m Wall mounting



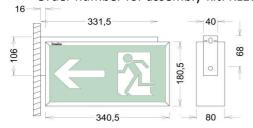
Self-contained luminaire Aluminium enclosure Recognition distance 32m

Order-Number: KL16-3203-UMT

The luminaire KL16-3203-UML suits for

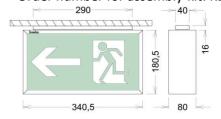
Wall arm mounting

Order number for assembly-kit: KL16-32WA



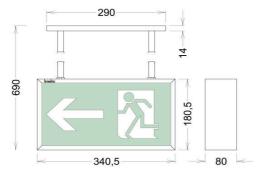
Ceiling mounting

Order number for assembly-kit: KL16-32DM



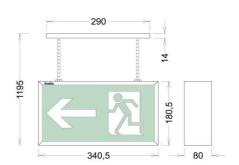
Pendulum mounting

Order number for assembly-kit: KL16-32PM



Chain mounting

Order number for assembly-kit: KL16-32KM





Spare parts and accessories

Accessories KL10-25 Battery NiMH 4,8V 600mAh LED Strip Display without Pikto Pikto direction left Pikto direction right Pikto direction down Pikto direction left up Pikto direction right up Pikto direction left down Pikto direction left down Pikto direction right down	Ord.No. E10-25BA E10-25LE E10-25DI E10-25LI E10-25RE E10-25UN E10-25LO E10-25RO E10-25RU	L C P P P P	Accessories KL11-25 LED Strip Display without Pikto Pikto direction left Pikto direction right Pikto direction down Pikto direction left up Pikto direction right up Pikto direction left down Pikto direction left down Pikto direction right down	Ord.No. E10-25LE E10-25DI E10-25LI E10-25RE E10-25UN E10-25LO E10-25RO E10-25RU	
Accessories KL12-25 Battery NiMH 4,8V 600mAh LED Strip Display without Pikto Pikto direction left Pikto direction right Pikto direction down Pikto direction left up Pikto direction right up Pikto direction left down Pikto direction left down Pikto direction right down EXIT	Ord.No. E10-25BA E10-25LE E10-25DI E10-25RE E10-25UN E10-25LO E10-25RO E10-25RU E10-25RU E10-25RU		Accessories KL12-32 Battery NiMH 4,8V 600mAh LED Strip Display without Pikto Pikto direction left Pikto direction right Pikto direction down Pikto direction left up Pikto direction right up Pikto direction left down Pikto direction right down EXIT	Ord.No. E10-25BA E10-32LE E10-32DI E10-32RE E10-32UN E10-32LO E10-32LO E10-32RU E10-32RU E10-32RU E10-32RU	
Accessories KL13-25 LED Strip Display without Pikto Pikto direction left Pikto direction right Pikto direction down Pikto direction left up Pikto direction right up Pikto direction left down Pikto direction right down Pikto direction right down Battery 8h duration Battery 12h duration Battery charger	Ord.No. E13-25LE E10-25DI E10-25LI E10-25RE E10-25UN E10-25LO E10-25RO E10-25LU E10-25RU E13-25A1 E13-25A2 E13-25LG				



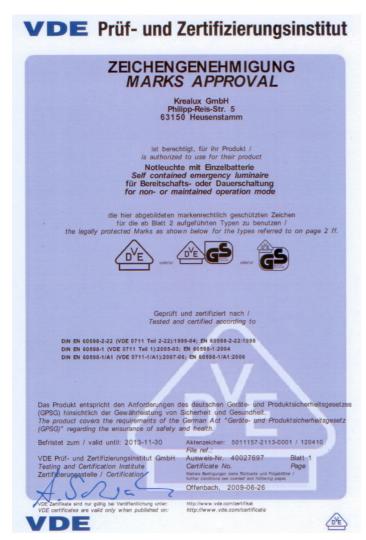
Spare parts and accessories

Accessories KL16-32 Battery NiCd 4,8/1,8Ah LED Strip 4x1W LED Strip 8x1W T5 Tube 8W Display without Pikto Pikto direction left Pikto direction right Pikto direction down Pikto direction left up Pikto direction right up Pikto direction left down Pikto direction left down Pikto direction right down	Ord.No. E16-32BA E16-32L4 E16-32L8 E16-32T5 E16-32DI E16-32RE E16-32UN E16-32LO E16-32LO E16-32RO E16-32LU E16-32RU	Accessories KL16-32 Ord.No. Kit for ceiling mounting E16-32DM Kit for wall-arm mounting E16-32WA 2 alu-tubes for pendulum mt. E16-32PM 2 chains 1m E16-32KM	



Secure through

Narkness...



The VDE - seal of approval documents positive examination and certification by the VDE - Institute, which sets standards and verifies by strict regulations. Admission to bear the VDE - seal contains continuous manufactoring control, which ensures enduring, constant quality.



Accordance of the products to Russian standards and regulations is certificated through the "GostR"certificate. This certificate is assigned by testing institutes and laboratories which are accredited by Russian agencies for standardization and regulation for products. Without the "GostR" - certificate it is not possible to bring products onto the Russian market.

www.krealux.de