

Compact LED Emergency/Escape Sign Light Fitting Series 164KL ...



Applications:

In humid, wet and dusty locations for illuminating and indicating any escape routes.

Design:

Housing: Glass fibre reinforced polyester, silicone gasket.
Diffuser: PMMA frosted for glare limitation, version ... L02 opalescent white (W).
(Pictograms – if required – to be orde-

red separately, see accessories).

Clips: Single-piece plastic clips (KK).

Reflector: Painted aluminium, can be suspended or removed and carries the electrical component.

Connection terminal: 3 or 4 poles.

Cable entries: Variable, on the short sides and on the top, 2 plugs M20.

Mounting: 2 mounting points, rubber gasket and washers included.

Technical Data:

LED: Linear module 4.000K or 6.500K (Versions ... L02W), $R_a > 80$, service life $L_{80} > 50.000h$ at max. ambient temperature

Battery NiMH (versions ... L02/. W) or NiCd (versions ... L08/.), a constant trickle charge to the battery ensures readiness of operation at all times.

Electronic deep discharge protection according to EN 61347-2-7

Charging period 24h according EN 60598-2-22.

Automatic monitoring of the fitting according to EN 62034. Test results indicated by 2 colour LED.

Operating modes:

Maintained Mode: Switch over to battery back up in case of mains fail.

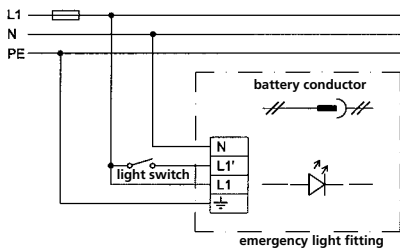
Version ... L08/. will operate at a reduced luminous flux.

Stand-by operation: Emergency light switches on in the event of a power failure.

Operating voltage: 220-240V; 50/60Hz

Ambient temperature: 0 to +30°C in maintained mode
 0 to +40°C in stand-by mode

Wiring diagram maintained/stand by operation



Installation: connect battery conductor
Decommission: disconnect battery conductor
Stand-by operation: do not connect L1'

Options:

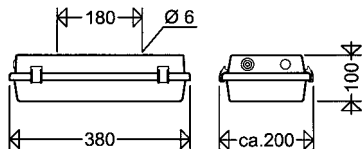
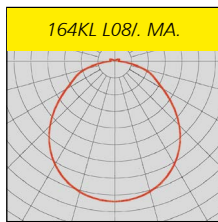
- stainless steel clips (KE)
- Cable entries to M25x1.5
- same side in/out wiring

For series with self-contained battery:

- Emergency lighting unit with DALI interface for central monitoring, compatible with LIMAS Line PRO or Line ESC (MA-Z) Light Management System

For series in case of connection to central power supply unit:

- with integrated LED supply- and monitoring module for monitoring individual light fittings connected to group- or central battery systems. We recommend systems of make INOTEC.



Product highlights:

- always ready for operation due to permanent trickle charging of the battery (MA-versions)
- safety in case of an emergency, instant light with maximum light output also at low temperatures (MA-versions)
- Central battery versions with 100% luminous flux in case of emergency (WMA - and ZB-versions)
- constant light output at all specified ambient temperatures
- excellent illumination of the pictogram. According to EN 1838 and DIN 4844
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using LED-modules according to Zhaga standard

Article no.	Type	Connected load [W] (incl. battery charge)	Luminous flux [lm]	Luminous flux [lm] (emergency operation)	Luminous efficacy [lm/W]	Light fitting for pictogram	Operating hours 1h	Operating hours 3h	Substitute for *	Weight [kg] (without packing material)
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164KL .../. MA



with self-contained battery and automatic self-monitoring

16408 0060	164KL L02/1 W MA	5,0	270	270	54	•	•	---		1,1
16408 0061	164KL L02/3 W MA	5,0	270	270	54	•		•	---	1,6
16408 0041	164KL L08G2/1 MA	10,0	820	500	82		•		1 x 11W	1,3
16408 0042	164KL L08G2/3 MA	11,0	820	490	75			•	1 x 11W	1,7

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

Article no.	Type	Connected load [W] (incl. battery charge)	Luminous flux [lm]	Luminous flux [lm] (emergency operation)	Luminous efficacy [lm/W]	Light fitting for pictogram	Operating hours 1h	Operating hours 3h	Substitute for *	Weight [kg] (without packing material)
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164KL... ZB



for central battery systems

For connection to group or central battery systems or to an emergency mains for illuminating and indicating escape routes. We recommend Central Battery Systems from INOTEC.

Technical Data:

Light fitting with incorporated fuse for cut-off in case of failure according to DIN EN 60598-2-22, section 22.7.3.

Connection voltage: 220-240V, 50/60Hz and 220V DC

Ambient temperature: -20°C to +30°C



Series 164KL... W with pictogram

16408 0045	164KL L02 W ZB	4,0	270	270	68	•			---	0,9
16408 0031	164KL L05G2 ZB	4,5	490	490	109				1 x 8W	1,0
16408 0032	164KL L08G2 ZB	8,5	840	840	99				1 x 11W	1,0
16408 0033	164KL L11G2 ZB	10,0	1.150	1.150	115				1 x 18W	1,0
16408 0034	164KL L15G2 ZB	14,0	1.490	1.490	106				1 x 24W	1,0

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

Self-adhesive pictogram green/transparent



121/32



121/33



121/34



121/35



121/36



121/37



121/38



121/39

for light fittings with white opalescent glass windows for escape route signs acc. to DIN EN ISO 7010 und ASR A1.3.

Viewing distance = 30 m.

Accessories / Spare Parts

Article no.	Type	
Spare glasses		
16413 9001	ABD 164KL W	cover, PMMA diffuser white opalescent, for 164KL... W
16413 9007	ABD 164KL F G2	cover, frosted PMMA diffuser, for 164KL... G2
Brackets		
90232 0004	DA	ceiling bracket
Self-adhesive pictograms		
12112 0025	121/32	emergency EXIT „up“
12112 0026	121/33	emergency EXIT „left“
12112 0027	121/34	emergency EXIT „right“
12112 0028	121/35	emergency EXIT „below“
12112 0029	121/36	emergency EXIT „up-left“
12112 0030	121/37	emergency EXIT „up-right“
12112 0031	121/38	emergency EXIT „down-left“
12112 0032	121/39	emergency EXIT „down-right“

Further accessories and spare parts see section „Dustproof/Waterproof LED Light Fitting“ Series 164KL... in our catalogue. When ordering electronic parts or battery sets please always mention the article no. of the respective fitting.