

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

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

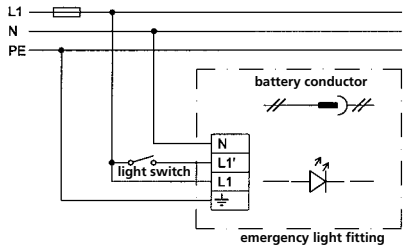
Design:
Housing: Glass fibre reinforced polyester, silicone gasket.
Diffuser: PMMA frosted for glare limitation, version ... **L02** opalescent white **(W).**
Pictograms – if required – to be ordered separately, see accessories.
Clips: Single-piece plastic clips (KK).
Reflector: Painted aluminium, can 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 4,000 K or 6,500 K **(Versions ... L02W)**, R_a > 80, service life L_{90} > 50,000 h at 25 °C ambient temperature, service life L_{80} > 70,000 h and L_{70} > 100,000 h at max. ambient temperature
Battery NiMH, 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 24 h according EN 60598-2-22.
Automatic monitoring of the fitting according to EN 62034. Test results indicated by 2 colour LED.

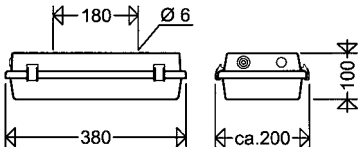
Operating modes:
Maintained Mode: Switch over to battery back up in case of mains fail. Version …**L08/.** will operate at a reduced luminous flux.
Stand-by operation: Emergency light switches on in the event of a power failure.

Operating voltage: 220-240V; 50/60Hz
Ambient temperature: 0 to +30 °C in maintained mode
0 to +40 °C in stand-by mode

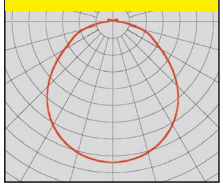
Wiring diagram maintained/stand by operation



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



164KL L08/. MA.



Options:
– 6,500 K; light colour (**865**)
– cable looping at 1 small side
– stainless steel clips (**KE**)

For self-contained emergency luminaire:
– DALI interface for centralised monitoring, compatible with LIMAS Line PRO or Line ESC wired Light Management Systems
– Radio module for centralised monitoring, compatible with LIMAS Air GUARD Light Management System

For a central power supply system:
– for connection to a central power supply system with integrated monitoring module

Advantages of the emergency light version:
- **always ready for operation** due to permanent trickle charging of the battery (MA-versions)
- **safety in an emergency,** immediate light with maximum luminous flux, even at low temperatures (MA-versions)
- **Central battery versions with 100 % luminous flux in case of emergency (W MA - and ZB-versions)**
- **stable luminous flux in emergency mode,** even at low temperatures
- **excellent illumination of the pictogram.** According to EN 1838 and DIN 4844

General product highlights:
- quality luminaire with above-average mechanical strength
- **homogeneous illumination by using frosted diffusers,** comfortable perception of light and brilliant glare limitation
- control gear and LED-module replaceable by qualified personnel on-site
- **future proof** by using standardised LED-modules (Zhaga) and long-term availability of spare parts

164KL .../. MA

IP65

self-contained emergency luminaire with automatic monitoring

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 time 1 h	Operating time 3 h	Substitute for *	Weight [kg] (without packingmaterial)
16408 0060	**164KL L02/1 W MA**	5	240	240	48	•	•		---	1,1
16408 0061	**164KL L02/3 W MA**	5	240	240	48	•		•	---	1,6
16408 0090	**164KL L08G2/1 MA**	7	680	590	97		•		1 x 11W	1,3
16408 0091	**164KL L08G2/3 MA**	8	680	590	85			•	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 time 1 h	Operating time 3 h	Substitute for *	Weight [kg] (without packingmaterial)

164KL... ZB

IP65

for central power supply systems

For connection to central power supply systems for illuminating and indicating escape routes.

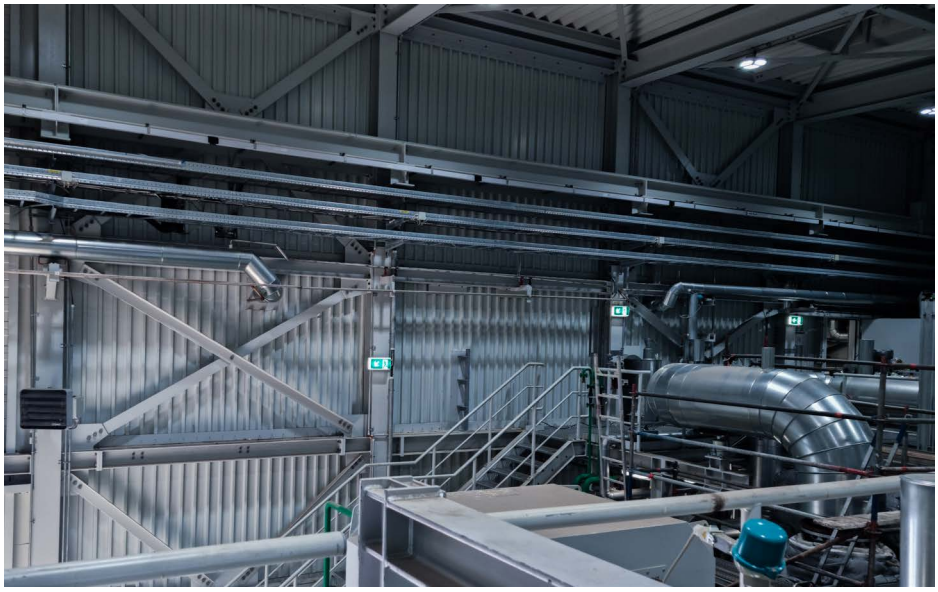
Technical Data:
Light fitting with incorporated fuse for cut-off in case of failure according to DIN EN 60598-2-22, section 22.7.3.
Connection voltage: 220-240 V, 50/60 Hz and 220V DC
Ambient temperature: -20 °C to +30 °C (+40°C for type ...L02 W)

16408 0045	**164KL L02 W ZB**	4	240	240	60	•			---	0,9
16408 0032	**164KL L08G2 ZB**	5	680	680	136				1 x 11W	1,0
16408 0034	**164KL L15G2 ZB**	10	1.350	1.350	135				1 x 24W	1,0

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



Series 164KL... W with pictogram



Self-adhesive pictogram green/transparent

 PIK 121/32

 PIK 121/33

 PIK 121/34

 PIK 121/35

 PIK 121/36

 PIK 121/37

 PIK 121/38

 PIK 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	**PIK 121/32**	emergency exit up
12112 0026	**PIK 121/33**	emergency exit left
12112 0027	**PIK 121/34**	emergency exit right
12112 0028	**PIK 121/35**	emergency exit below
12112 0029	**PIK 121/36**	emergency exit up-left
12112 0030	**PIK 121/37**	emergency exit up-right
12112 0031	**PIK 121/38**	emergency exit down-left
12112 0032	**PIK 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.