

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

Application:

In humid, wet and dusty locations in commercial and industrial premises etc., for emergency lighting as well as for illuminating and indicating any escape routes.

Design:

Housing: Glass fibre reinforced polyester, silicone gasket.

Diffuser: PMMA frosted for glare limitation, version ... 201 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: High power LED, white, 6.500K, $R_a > 70$ (version ...201) or line modul 4.000K, $R_a > 80$ (versions ...L..), life expectancy $L_{80} > 50.000h$, at max. ambient temperature (see notes)

Battery NiMH (version ...201) or NiCd (version ... 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 Mode: LED modules will switch on if mains fails.

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

Ambient temperature: -5 to +30°C in maintained mode
-0 to +40°C in stand-by mode

Options:

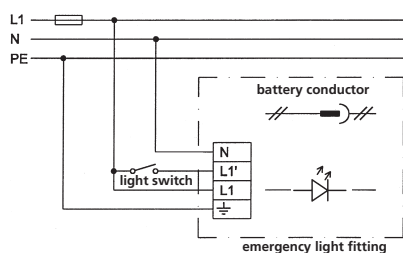
- stainless steel clips (KE)
- Cable entries to M25x1.5

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

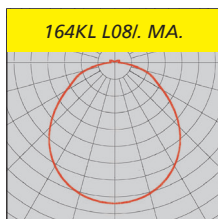
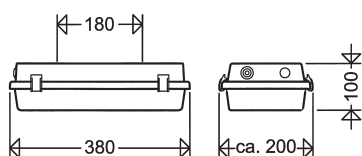
- with integrated LED supply- and monitoring module for monitoring individual light fittings connected to group- or central battery systems. We recommend systems of make INOTEC.



Wiring diagram maintained/stand by operation



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



SCHUCH Quality - your advantage:

- high end light fitting with excellent mechanical strength
- up to 47 % energy savings compared to an 11W Kompakt-fluorescent tube (versions ...L08....)
- safety, 100 % luminous flux at low ambient temperatures
- constant light output at all specified ambient temperatures
- excellent illumination of the pictogram. According to EN 1838 and DIN 4844
- 100% or 60% luminous flux in emergency mode

Article no.	Type	Power consumption [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	Energy efficiency class	Substitute for **	Weight [kg] (without packingmaterial)
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164KL .../. MA



with self-contained battery and automatic self-monitoring

16408 0001	164KL 201/1 W MA	5,0	180	180	36	•	•		A++	---	1,1
16408 0002	164KL 201/3 W MA	5,0	180	180	36	•		•	A++	---	1,6
16408 0041	164KL L08G2/1 MA	10,0	820	500	82		•		A++	1 x 11W	1,4
16408 0042	164KL L08G2/3 MA	11,0	820	490	75			•	A++	1 x 11W	1,6

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

Notes:

Properties, limitations and details for controlling LED-light fittings: See „Technical Supplement“.

All technical data is relevant at the time of print. Actual technical data can be found in the internet under www.schuch.de.

Article no.	Type	Power consumption [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	Energy efficiency class	Substitute for **	Weight [kg] (without packing material)
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164KL... ZB



for central battery systems

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

Technical Data:

ECG: For operation on 220-240V, 50/60Hz and 220V DC with incorporated fuse for selective cut-off in case of failure according to DIN EN 60598-2-22, section 22.7.3.



series 164... W KL LED with pictogram

16408 0003	164KL 201 W ZB	4,0	180	180	45	•			A++	---	0,9
16408 0031	164KL L05G2 ZB	4,5	490	490	109				A++	1 x 8W	1,0
16408 0032	164KL L08G2 ZB	8,5	840	840	99				A++	1 x 11W	1,0
16408 0033	164KL L11G2 ZB	10,0	1.150	1.150	115				A++	1 x 18W	1,0
16408 0034	164KL L15G2 ZB	14,0	1.490	1.490	106				A++	1 x 24W	1,0

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

Self-adhesive pictogram green/transparent¹⁾

	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	164000 W	PMMA white opalescent for 164KL... W
16413 9006	164000 F	PMMA frosted for 164KL L...
16413 9007	164000 F G2	PMMA frosted for 164KL L.. 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.