



## 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.

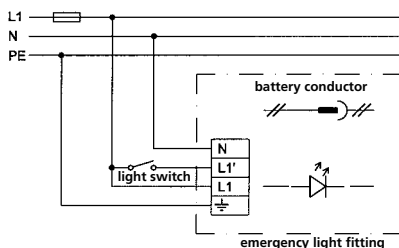
Version ... L08/. will operate at a reduced luminous flux.

**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

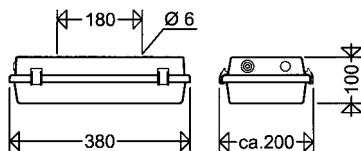
### Wiring diagram maintained/stand by operation



**Installation:** connect battery conductor

**Decommission:** disconnect battery conductor

**Stand-by operation:** do not connect L1'



### Options:

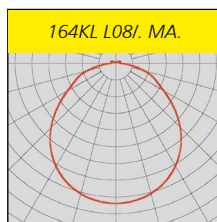
- stainless steel clips (KE)
- Cable entries to M25x1.5
- same side in/out wiring

### 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](http://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

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



Series 164KL... W with pictogram

#### 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	
<b>Spare glasses</b>		
16413 9001	<b>ABD 164KL W</b>	PMMA white opalescent for 164KL... W
16413 9007	<b>ABD 164KL F G2</b>	PMMA frosted for 164KL L.. G2
<b>Brackets</b>		
90232 0004	<b>DA</b>	ceiling bracket
<b>Self-adhesive pictograms</b>		
12112 0025	<b>121/32</b>	emergency EXIT „up“
12112 0026	<b>121/33</b>	emergency EXIT „left“
12112 0027	<b>121/34</b>	emergency EXIT „right“
12112 0028	<b>121/35</b>	emergency EXIT „below“
12112 0029	<b>121/36</b>	emergency EXIT „up-left“
12112 0030	<b>121/37</b>	emergency EXIT „up-right“
12112 0031	<b>121/38</b>	emergency EXIT „down-left“
12112 0032	<b>121/39</b>	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.