Dustproof/Waterproof LED Emergency Light Fitting with Diffuser Series 161 ..



Applications:
In humid, wet and dusty rooms as replacement lighting in the event of a power failure, or as safety lighting to illuminate escape and rescue routes.

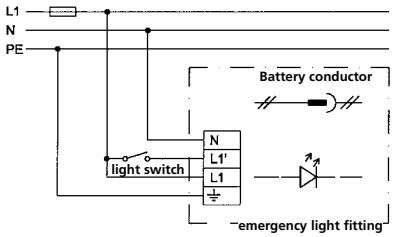
Mechanical Design:
Housing: Glass fibre reinforced polyester resin, silicone gasket.
Diffuser: Injected, acrylic glass, frosted, additional clear cover over the LED-modules to ensure protection against contact (Types ...MA).
Closure: Three-part captive plastic clips (**KK**), incl. 2 safety clips (**KKS**)
Reflector: Aluminium, painted can be suspended or removed and carries the electrical components.
Connection: 3/4-pole terminal.
Cable entries: 2 plugs M20.
Mounting: Closed knock-outs for direct ceiling mounting (to be opened at site). Sealing and pressure disks inside each fitting.

Technical Data:
LED: Linear modules 4,000 K, CRI > 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
Incorporated LiFePO4 battery, with temperature monitoring, short-circuit-proof connection, reverse polarity protection
Electronic deep discharge protection acc. to EN 61347-2-7
Re-charging time: 24 h, acc. to EN 60598-2-22
Automatic monitoring: of the emergency light fitting according to EN 62034, indication of the test results by 2-coloured LED (luminescence diode) at the luminaire

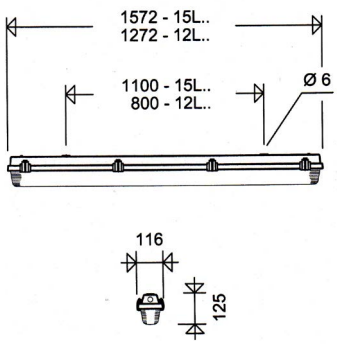
Mode of operation:
maintained operation = switching over to battery operation in case of mains failure, line modules will be operated with reduced luminous flux as emergency lighting.
Stand-by operation: Emergency light switches on in the event of a power failure.

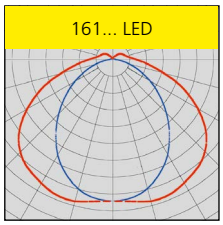
Connection voltage: 220-240 V 50/60 Hz
Ambient temperature: 0 °C up to +30 °C

Wiring diagram maintained/stand by operation



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





Options:
– 3.000 K, 5.000 K, 6,500 K; light colours (**830, 850, 865**)
– cable looping at 1 small side
– cable entry M25x1,5 mm²
– cover made of polycarbonate (**PC**), frosted
– stainless steel clips (**KE**)
– according to „International Featured Standard Food" (**IFS**)
– according to „International Featured Standard Food" (IFS) additionally with highly chemical-resistant cover (**LM**)
– dimming function via DALI-2 interface, compatible with LIMAS Line wired Light Management System (**DIMD**)

For self-contained emergency luminaires:
– through-wiring (**DV**), (see note) 4-conductor: L1, L1', N, PE or 6-conductor: L1, L1', L2', L3', N, PE
– 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:
– percentage reduction in luminous flux in DC operation (**ZB15, ZB30, ZB50**)
– for connection to a central power supply system with integrated monitoring module
– for connection to a central power supply system with integrated changeover switch

Advantages of the emergency light version:
- **always ready for operation** (MA-versions) due to permanent trickle charging of the battery (>0°C)
- **safety in an emergency,** immediate light with maximum luminous flux, discharge also possible at low temperatures
- **100 % luminous flux even in emergency mode (ZB-versions)**
- **reliable protection against contact** due to additional clear cover (MA-versions)

General product highlights:
- **robust, extremely strong quality light fitting** especially suited for rough industrial use
- **high-impact resistant housing,** excellent chemical and UV-resistance
- **diffuser with high mechanical stability,** fourfold safety against outer impact
- **safety locks** to ensure protection against accidental contact
- **front in/out wiring** (3-pole) possible as standard thanks to 2 entries on one side
- **homogeneous illumination** by using frosted diffusers
- 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

! 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]	Operating time 1 h	Operating time 3 h	Substitute for *	Weight [kg] (without packing material)
161 ../. MA									
self-contained emergency luminaire with automatic monitoring									
16118 0501	**161 12L22/1 MA**	17	2.390	620	141	•		1 x 36W	3,1
16118 0503	**161 12L42/1 MA**	29	4.240	620	146	•		2 x 36W	3,1
16118 0511	**161 12L22/3 MA**	17	2.390	620	141		•	1 x 36W	3,2
16118 0513	**161 12L42/3 MA**	29	4.240	620	146		•	2 x 36W	3,2
16118 0502	**161 15L34/1 MA**	23	3.440	620	150	•		1 x 58W	3,6
16118 0504	**161 15L60/1 MA**	41	6.160	620	150	•		2 x 58W	3,6
16118 0512	**161 15L34/3 MA**	23	3.440	620	150		•	1 x 58W	3,7
16118 0514	**161 15L60/3 MA**	41	6.160	620	150		•	2 x 58W	3,7
161 .. ZB									
for central power supply systems									
16118 0104	**161 12L22 ZB**	15	2.390	2.390	159			1 x 36W	2,6
16118 0049	**161 12L42 ZB**	27	4.240	4.240	157			2 x 36W	2,6
16118 0083	**161 12L60 ZB**	39	5.920	5.920	152			2 x 58W	2,6
16118 0103	**161 15L34 ZB**	21	3.440	3.440	164			1 x 58W	3,0
16118 0048	**161 15L60 ZB**	39	6.160	6.160	158			2 x 58W	3,0
16118 0063	**161 15L75 ZB**	49	7.440	7.440	152			> 2 x 58W	3,0

Applications:
For connection to central power supply systems for illuminating 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: from -20 °C to +40 °C (+30 °C for Types ... 12L60 and ... 15L75)

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

Accessories and spare parts please see section „Dustproof/Waterproof LED Light Fitting with Diffuser Series **161/162.. LED**“ in our catalogue. When ordering electronic parts or battery sets please always mention the article no. of the respective fitting.