



ExeLED 1 N

LED-Emergency Light Fitting for Ex-Zone 1/21

Series e864...

Applications:

Hazardous locations of Zones 1/2 (gas) and 21/22 (dust), for illuminating escape routes.

Design:

Housing: Glass fibre reinforced polyester with separate battery box at one small side of the housing.

Cover: Injected polycarbonate, frosted (F) or clear, silicone gasket.

Closure: Stainless steel clips (KE), two of them as safety clip (KES), to be opened with screwdriver only.

Reflector: Sheet Steel, painted, carrying the encapsulated LED-modules, clipped into the cover, suspendable.

Connection: 4 poles up to 4 mm².

Cable entries: 2 entries M25 x 1.5 at one small side of the housing, (2 glands - one of them is plugged)

Standard: Facing downwards or forwards.

Mechanical installation:

Mounting accessories see spare parts/ accessories.

Technical Data:

LED: Line modules appr. 6,500 K, CRI > 80, service life $L_{80} > 100,000$ h at max. ambient temperature, $L_{90} > 95,000$ h (06L..) at 25 °C ambient temperature, $L_{90} > 85,000$ h (12L..) at 25 °C ambient temperature

ECG with an integrated emergency control unit

Incorporated NiCd battery, electronic charger, short circuit protected battery and reverse battery 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

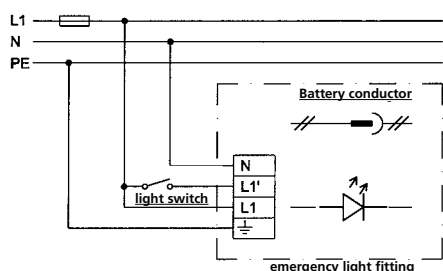
Mode of operation:

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 = switching on in case of mains failure.

Options:

- 4,500 K; light colour (845)
- through-wiring (DV)
- remote switch-off device

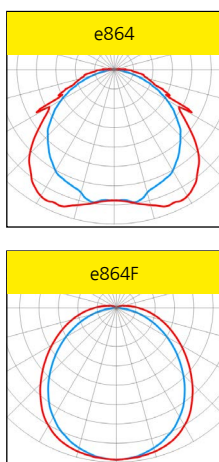


Starting:

Connect battery conductor.

Out-of-operation: separate battery conductor.

Stand-by operation: Do not connect L1'.



Product highlights:

- safety in case of an emergency, instant light with maximum light output
- operation in maintained, switched maintained or stand-by mode possible
- multifunctional LED with coded indication of the functions, states and potential faults of the electronic device and the battery
- automatic weekly function test
- automatic annual duration test
- manual actuation of duration test is possible
- easy battery replacement due to connector
- innovative encapsulation with high transmission rate
- LED-Modules protected from mechanical or electrostatic damages by sandwich design of reflector and cover
- homogeneous illumination by using frosted diffusers (versions e864F..) no individual light points visible, comfortable perception of light, brilliant glare limitation
- high colour rendering index CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- **FastFix mounting**, system for variable mounting distances and easy installation (retaining clips HK865 P) without opening the fitting
- **sustainable**, control gear and reflector with LED-modules replaceable by qualified personnel on-site

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

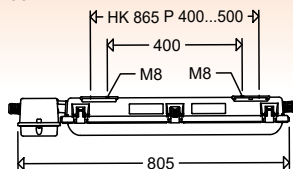
See "Technical Supplement"

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

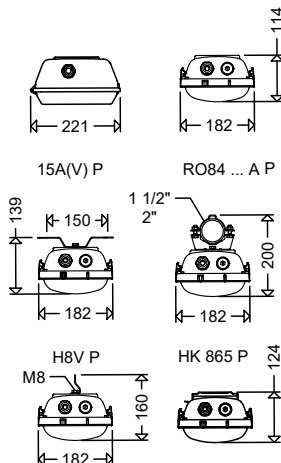
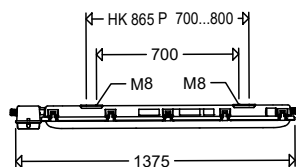
Note:

This light fitting is not suitable for applications in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

e864 06L... H



e864 12L...



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous flux [lm] (emergency)	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Operating time 1 h	Operating time 3 h	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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e864...



II 2 G Ex db eb [ib] mb q IIC T4 Gb

II 2 D Ex tb IIIC T80°C Db

IP66



EU-Type Examination Certificate:

ATEX: IBEU 17 ATEX 1026

Other approvals:

IECEX: IECEx IBE 17.0016

Marking:

II 2 G Ex db eb [ib] mb q IIC T4 Gb (Zone 1)

II 2 D Ex tb IIIC T80°C Db (Zone 21)

Ignition protection: ec

Rated voltage: 220-240 V AC, 50/60 Hz.

Permissible ambient temperature:

-30 °C up to +55 °C

Normal range acc. to EN 60598-2-22 0 °C up to 45 °C, reduced emergency light duration if operated below 0 °C.

86400 0050	e864F 06L22/1/1,6	18	2.170	700	121	•	•	55	2 x 18W	6,2
86400 0052	e864F 06L42/1/1,6	29	4.100	700	141	•	•	50	2 x 36W	6,4
86400 0051	e864F 06L22/3/4	18	2.170	700	121	•	•	55	2 x 18W	6,4
86400 0053	e864F 06L42/3/4	29	4.100	700	141	•	•	50	2 x 36W	6,6
86400 0001	e864F 12L42/1/1,6	29	4.360	750	150	•	•	55	2 x 36W	7,6
86400 0002	e864F 12L60/1/1,6	41	6.020	750	147	•	•	55	2 x 58W	7,6
86400 0101	e864F 12L42/3/4	29	4.360	750	150	•	•	55	2 x 36W	8,0
86400 0102	e864F 12L60/3/4	41	6.020	750	147	•	•	55	2 x 58W	8,0

e864... DIMDI



II 2 G Ex db eb [ib] mb q IIC T4 Gb

II 2 D Ex tb IIIC T80°C Db

IP66



with monitoring and dimming function via DALI interface

Design:

As standard version, but with DALI interface for dimming and centralised monitoring.

Compatible with LIMAS Line PRO Light Management System.

Note:

The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

86400 0150	e864F 06L22/1/1,6 DIMDI	18	2.170	700	121	•	•	55	2 x 18W	6,2
86400 0152	e864F 06L42/1/1,6 DIMDI	29	4.100	700	141	•	•	50	2 x 36W	6,4
86400 0153	e864F 06L42/3/4 DIMDI	29	4.100	700	141	•	•	50	2 x 36W	6,6
86400 0003	e864F 12L42/1/1,6 DIMDI	29	4.360	750	150	•	•	55	2 x 36W	7,6
86400 0004	e864F 12L60/1/1,6 DIMDI	41	6.020	750	147	•	•	55	2 x 58W	7,6
86400 0103	e864F 12L42/3/4 DIMDI	29	4.360	750	150	•	•	55	2 x 36W	8,0
86400 0104	e864F 12L60/3/4 DIMDI	41	6.020	750	147	•	•	55	2 x 58W	8,0

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

Fasteners

KE/KES VE10
KES P



KE/KES G2 VE10
KES G2 P



Accessories / Spare Parts

Article No.	Type	
Spare batteries		
90222 9021	AKKU NiCd 6V 4,0Ah Block 2627	Spare battery 4.0 Ah
90222 9023	AKKU NiCd 6V 1,6Ah Block 8020	Spare battery 1.6 Ah
Spare covers		
86601 9014	ABD 8652F	cover, frosted PC diffuser, for e864 06 ..., e865 06 ..., nD866 06 ..., nD867 06 ...
86601 9001	ABD 8654F	cover, frosted PC diffuser, for e864 12 ..., e865 12 ..., nD866 12 ..., nD867 12 ...
86601 9000	ABD 8654	cover, diffuser PC clear, for e864 12 ..., e865 12 ..., nD866 12 ..., nD867 12 ...
Fasteners		
90055 9004	KE/KES VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.) see picture on the left, for e 864 12L.. until year of manufacture 2020
90055 9005	KES P	1 pair of safety clips stainless steel for e864 12L.. until year of manufacture 2020
90055 9007	KE/KES G2 VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.) see picture on the left, for e 864 12L.. from year of manufacture 2020 and for e 864 06L..
90055 9006	KES G2 P	1 pair of safety clips stainless steel for e864 12L.. from year of manufacture 2020 and for e864 06L..
Glands/breather		
90117 9006	2537 G	ex-protected plastic cable gland M25 x 1,5 with nut
90118 9006	2538 G	ex-protected plastic plug M25 x 1,5 with nut
90119 9001	2539 G	ex-protected plastic cable gland M25 x 1,5 with blanking plug and locknut
90259 9000	KS25 G EX	ex-breather M25 x 1,5
Mounting material		
86501 9003	HK 865 P	2 retaining clips for variable mounting in indoor areas
90001 0002	H8V P	2 suspensions brackets, stainless steel
90000 0002	DS 15A P	2 ceiling brackets, hot galvanized steel
90032 0002	DS 15AV P	2 ceiling brackets, stainless steel
90037 0004	RO84 112 A P	2 pipe clamps 1 1/2", stainless steel, with support
90038 0004	RO84 2 A P	2 pipe clamps 2", stainless steel, with support
26000 0008	WW 26 L P	2 wall mounting angles, hot galvanized steel
26000 0002	WW 26 30 P	2 wall mounting angles 30°, hot galvanized steel
26000 0003	WW 26 45 P	2 wall mounting angles 45°, hot galvanized steel