

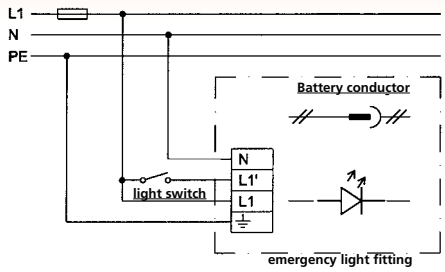
ExeLED 2 N

LED-Emergency Light Fitting for Ex-Zones 2/22
Series nD867...

Applications:
Hazardous locations of zones 2 (gas) and 22 (dust) for illumination of escape routes.

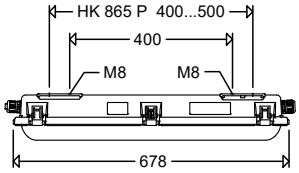
Design:
Housing: Glass fibre reinforced polyester resin. Version H with separate battery box at one small side of the housing.
Cover: Injected polycarbonate, frosted (**F**), silicone gasket.
Closure: Stainless steel clips (**KE**), two of them as safety clip (**KES**), to be opened with screwdriver only.
Reflector: Sheet Steel, painted, carrying the LED-modules and all electrical components, clipped into the cover, suspendable.
Connection: 4 poles up to 2,5 mm².
Cable entries: 3 entries M25 x 1.5, (2 glands - one of them is plugged).
Versions **H** with 2 x M25 x 1.5 at the front end of the light fitting.
Standard: Facing downwards or forwards.
Mechanical installation:
Direct ceiling mounting is possible. Rubber washers are included
Further mounting options see accessories / spare parts.

Note:
This light fitting is not suitable for application 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.

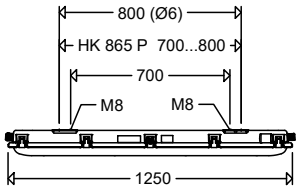


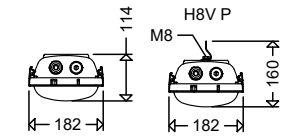
Starting:
Connect battery conductor
Out-of-operation: separate battery conductor
Stand-by operation: Do not connect L1'

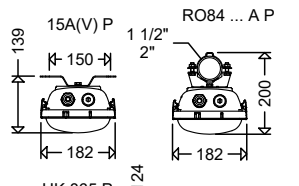
nD867... 06L.. (without battery box)

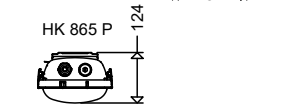


nD867... 12L.. (without battery box)

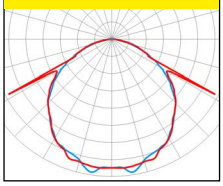




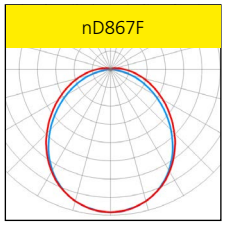




nD867



nD867F



Technical Data:
LED: Line modules 5,000 K, CRI > 80, service life L_{90} > 90,000 h (06L..),
L_{90} > 75,000 h (12L..) at 25 °C ambient temperature,
service life L_{80} > 100,000 h at max. ambient temperature
Incorporated NiMH 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:
– in-out wiring, 6-pole
– 3,000 K; light colour (**830**)
– through-wiring (**DV**)
– remote switch-off device

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
- **Reflector and cover in sandwich design to protect the LED-Modules from mechanical or electrostatic damages due to accidential contact**
- **homogeneous illumination by using frosted diffusers** 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
- control gear and reflector with LED-modules replaceable by qualified personnel on-site



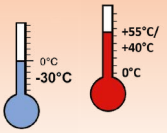
Properties, limitations and details for controlling LED-light fittings:
See "Technical Supplement"

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

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 packingmaterial)

nD867...

II 3 G Ex ec IIC T4 Gc | II 3 D Ex tc IIIC T80°C Dc | IP66



Type Examination Certificate:
IBExU 16 ATEX B006X
Other approvals:
IECEx IBE 15.0015X
Ignition protection: ec
Marking:
II 3 G Ex ec IIC T4 Gc (Zone 2)
II 3 D Ex tc IIIC T80°C Dc (Zone 22)

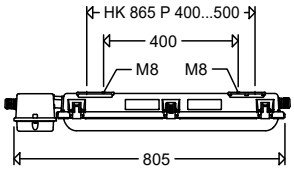
Rated voltage: 220-240 V AC, 50/60 Hz.
Permissible ambient temperature:
-30 °C up to see table, reduced emergency light duration if operated below 0 °C. For nD867 H nominal range acc. to EN60598-2-22, 0 °C up to 45 °C.

86705 0050	**nD867F 06L22/1/4**	16	2.170	650	136	•		•		40	2 x 18W	4,2
86705 0052	**nD867F 06L42/1/4**	29	4.360	750	150	•		•		40	2 x 36W	4,4
86705 0003	**nD867F 12L42/1/4**	29	4.360	750	150	•		•		40	2 x 36W	6,3
86705 0004	**nD867F 12L60/1/4**	41	6.020	750	147	•		•		40	2 x 58W	6,3
86705 0051	**nD867F 06L22/3/4**	16	2.170	650	136	•			•	40	2 x 18W	4,2
86705 0053	**nD867F 06L42/3/4**	29	4.360	750	150	•			•	40	2 x 36W	4,4
86705 0101	**nD867F 12L42/3/4**	29	4.360	750	150	•			•	40	2 x 36W	6,3
86705 0102	**nD867F 12L60/3/4**	41	6.020	750	147	•			•	40	2 x 58W	6,3

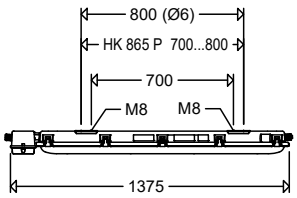
** versions L60 with through-wiring Tmax +35°C

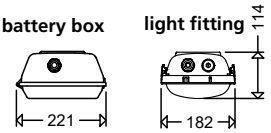


nD867 06L... H (with battery box)



nD867 12L... H (with battery box)





nD867... H

II 3 G Ex ec IIC T4 Gc | II 3 D Ex tc IIIC T80°C Dc | IP66

for high temperatures up to +55 °C

Design:
Same as standard version, but with separate battery box at one small side of the housing.

86705 0250	**nD867F 06L22/1/4 H**	16	2.170	650	136	•		•		55	2 x 18W	5,2
86705 0252	**nD867F 06L42/1/4 H**	29	4.360	750	150	•		•		55	2 x 36W	5,4
86705 0203	**nD867F 12L42/1/4 H**	29	4.360	750	150	•		•		55	2 x 36W	7,3
86705 0204	**nD867F 12L60/1/4 H**	41	6.020	750	147	•		•		55	2 x 58W	7,3
86705 0251	**nD867F 06L22/3/4 H**	16	2.170	650	136	•			•	55	2 x 18W	5,2
86705 0253	**nD867F 06L42/3/4 H**	29	4.360	750	150	•			•	55	2 x 36W	5,4
86705 0301	**nD867F 12L42/3/4 H**	29	4.360	750	150	•			•	55	2 x 36W	7,3
86705 0302	**nD867F 12L60/3/4 H**	41	6.020	750	147	•			•	55	2 x 58W	7,3

nD867... DIMDI

LiMAS | II 3 G Ex ec IIC T4 Gc | II 3 D Ex tc IIIC T80°C Dc | 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.

86705 0150	**nD867F 06L22/1/4 DIMDI**	16	2.170	650	136	•		•		40	2 x 18W	4,2
86705 0152	**nD867F 06L42/1/4 DIMDI**	29	4.360	750	150	•		•		40	2 x 36W	4,4
86705 0115	**nD867F 12L42/1/4 DIMDI**	29	4.360	750	150	•		•		40	2 x 36W	6,3
86705 0005	**nD867F 12L60/1/4 DIMDI**	41	6.020	750	147	•		•		40	2 x 58W	6,3
86705 0151	**nD867F 06L22/3/4 DIMDI**	16	2.170	650	136	•			•	40	2 x 18W	4,2
86705 0153	**nD867F 06L42/3/4 DIMDI**	29	4.360	750	150	•			•	40	2 x 36W	4,4
86705 0114	**nD867F 12L42/3/4 DIMDI**	29	4.360	750	150	•			•	40	2 x 36W	6,3
86705 0119	**nD867F 12L60/3/4 DIMDI**	41	6.020	750	147	•			•	40	2 x 58W	6,3

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

Accessories / Spare Parts

Article No.	Type	
Spare batteries		
90222 9031	**Akku NiCd 6V 4,0Ah Stab**	NiCd accu, 6.0 V 4.0 Ah, stick; replacement for article no. 90222_9029 (pay attention to the correct part number)
90222 9030	**Akku NiCd 6V 1,6Ah Stab**	NiCd accu, 6.0 V 1.6 Ah, stick (pay attention to the correct part number)
90222 9034	**Akku NiMH 6V 4,0Ah Stab**	NiMH accu, 6.0 V 4.0 Ah, stick (pay attention to the correct part number)
90222 9021	**Akku NiCd 6V 4,0Ah Block 2627**	NiCd accu, 6.0 V 4.0 Ah, Block for luminaire types ...H (pay attention to the correct part number)
90222 9023	**Akku NiCd 6V 1,6Ah Block 8020**	NiCd accu, 6.0 V 1.6 Ah, Block for luminaire types ...H (pay attention to the correct part number)
90222 9036	**Akku NiMH 6V 4,0Ah Block 8024**	NiMH accu, 6.0 V 4.0 Ah, Block for luminaire types ...H (pay attention to the correct part number)
Spare covers		
86601 9014	**ABD 8652F**	cover, frosted PC diffuser, for e864F 06 ..., e865F 06 …, nD866F 06 …, nD867F 06 ...
86601 9001	**ABD 8654F**	cover, frosted PC diffuser, for e864F 12 ..., e865F 12…, nD866F 12…, nD867F 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 nD867 12L.. until year of manufacture 2020
90055 9005	**KES P**	1 pair of safety clips stainless steel for nD867 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 nD867 12L.. from year of manufacture 2020 and for e nD867 06L..
90055 9006	**KES G2 P**	1 pair of safety clips stainless steel for nD867 12L.. from year of manufacture 2020 and for nD867 06L..
Glands/breather		
90117 9006	**2537 G**	ex-protected plastic cable gland M25 x 1,5 with locknut
90118 9006	**2538 G**	ex-protected plastic plug M25 x 1,5 with locknut
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 eyes with bolts, 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 ½", stainless steel, with support
90038 0004	**RO84 2 A P**	2 pipe clambs 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

Fasteners

KE/KES VE10
KES P



KE/KES G2 VE10
KES G2 P

