

ExeLED 2

LED-Light Fitting for Ex-Zones 2/22

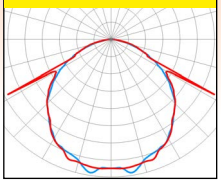
Series nD866...

Applications:
Hazardous locations of zones 2 (gas) and 22 (dust).

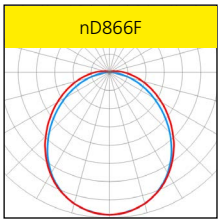
Design:
Housing: Glass fibre reinforced polyester resin.
Cover: Injected polycarbonate, frosted (**F**), silicone gasket.
Closure: Stainless steel clips (**KE**), two of them as safety clip (**KES**), to be opened with screwdriver only.
Reflector: Sheet Steel, painted, carrying the LED-modules and all electrical components, clipped into the cover, suspendable.
Connection: 3 poles up to 2.5 mm².
Cable entries: 3 entries M25 x 1.5, (2 glands - one of them is plugged)
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.

nD866



nD866F



Technical Data:
LED: Line modules 5,000 K, CRI > 80, service life L_{90} > 80,000 h (06L..), L_{90} > 90,000 h (12L..) at 25 °C ambient temperature, service life L_{80} > 100,000 h at max. ambient temperature
ECG: 220-240 V AC/DC, 0 or 50/60 Hz, overvoltage, overload and short circuit protection

Options:
– 3,000 K; light colour (**830**)
– through-wiring (**DV**)
– for lower ambient temperatures (**T40**), down to -40 °C
– for areas with high humidity (**HL**)



– for connection to central emergency supply systems (**ZB**)
– for connection to central emergency supply systems with integrated monitoring module

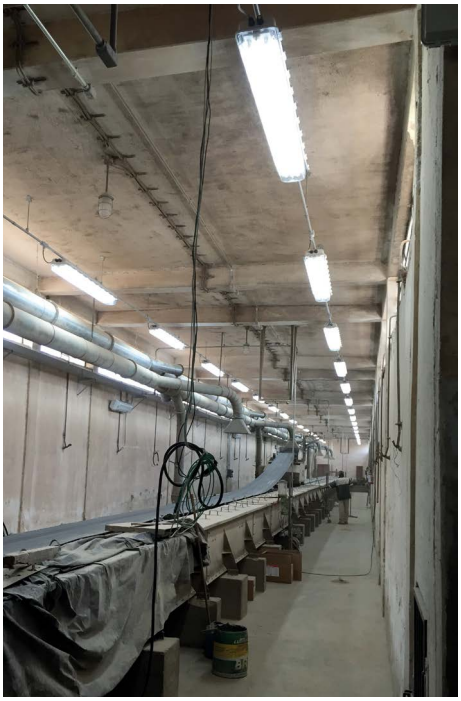
Product highlights:

- **Reflector and cover in sandwich design to protect the LED-Modules from mechanical or electrostatic damages due to accidental 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
- the light fittings are suitable for use in food areas (**IFS/HACCP**), see chapter 9.1 in the „Technical Supplement"



Looping the cable on one side:
All light fittings of series nD866... have got 2 cable entries on one small side of the housing for cable looping instead of the through-wiring system.





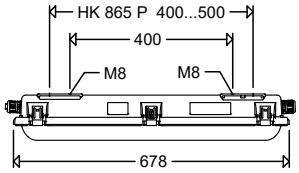
! Properties, limitations and details for controlling LED-light fittings:
See "Technical Supplement"

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

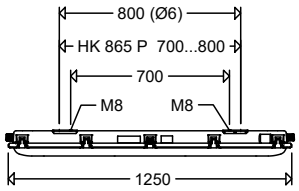


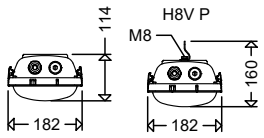
Pole mount with pipe clamps RO84 ....P

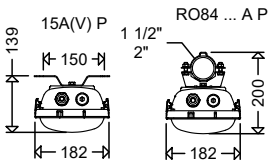
nD866 06L...

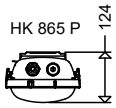


nD866 12L...





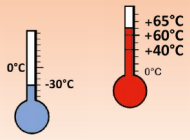




Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Ta max [°C]	Substitute for *	Weight [kg] (without packingmaterial)

nD866...

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/DC, 0 or 50/60 Hz.
Permissible ambient temperature: -30 °C see article table

86600 0050	**nD866F 06L22**	15	2.170	145	•		40	2 x 18W	3,3
86600 0051	**nD866F 06L42**	28	4.120	147	•		40	2 x 36W	3,4
86600 0052	**nD866F 06L60**	40	5.700	143	•		40	2 x 58W	3,4
86600 0002	**nD866F 12L42**	28	4.360	156	•		40	2 x 36W	5,4
86600 0003	**nD866F 12L60**	40	6.020	151	•		40	2 x 58W	5,4
86600 0004	**nD866F 12L85**	54	8.620	160	•		40	> 2 x 58W	5,5

nD866... DIMD

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

dimmable via DALI interface

Design:
Same as standard version, but with DALI-2-compatible ECG and 2 additional clamping points, marked with DA. Compatible with **LIMAS Line BASIC/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.

86600 0951	**nD866F 06L42 DIMD**	28	4.120	147	•		40	2 x 36W	3,4
86600 0953	**nD866F 06L60 DIMD**	40	5.700	143	•		40	2 x 58W	3,4
86600 0018	**nD866F 12L42 DIMD**	28	4.360	156	•		40	2 x 36W	5,4
86600 0912	**nD866F 12L60 DIMD**	40	6.020	151	•		40	2 x 58W	5,4
86600 0904	**nD866F 12L85 DIMD**	54	8.620	160	•		40	> 2 x 58W	5,5

nD866... H..

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

for high temperature [1)]

86600 0005	**nD866F 12L42 H65**	28	4.360	156	•		65	2 x 36W	5,4
86600 0008	**nD866F 12L60 H60**	40	6.020	151	•		60	2 x 58W	5,4

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.
[1)] through-wiring or looping the cable is not permissible.
Versions up to Ta 55 °C (**H55**) also possible with in/out wiring and through-wiring.

Accessories / Spare Parts

Article No.	Type	
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 nD866 12L.. until year of manufacture 2020
90055 9005	**KES P**	1 pair of safety clips stainless steel for nD866 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 nD866 12L.. from year of manufacture 2020 and for nD866 06L..
90055 9006	**KES G2 P**	1 pair of safety clips stainless steel for nD866 12L.. from year of manufacture 2020 and for nD866 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 also for pole mounting
90038 0004	**RO84 2 A P**	2 pipe clambs 2", stainless steel, with support also for pole mounting
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



Pipe clamps

2 pipe clamps 1 ½", stainless steel, with support



2 pipe clamps 2", stainless steel, with support

