



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) 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

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.

Technical Data:

LED: Line modules 5,000K, CRI > 80, service life $L_{80} > 100.000h$ at max. ambient temperature, $L_{90} > 80.000h$ (06L..) at 25°C ambient temperature, $L_{90} > 90.000h$ (12L..) at 25°C ambient temperature

ECG: 220-240V AC/DC, 0 or 50/60Hz, overvoltage, overload and short circuit protection

Options:

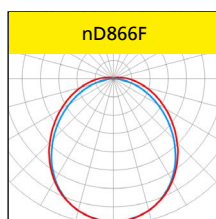
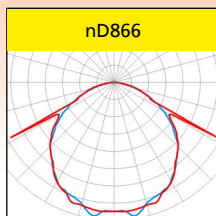
- for connection to group or central battery (light fittings of version ZB only) or emergency mains respectively
- for low ambient temperatures up to -40°C

- with monitoring module for monitoring the individual light fitting
- with through wiring system



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.



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 (versions nD866F..) 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
- the light fittings are suitable for use in food areas (IFS/HACCP), see chapter 9.1 in the „Technical Supplement“



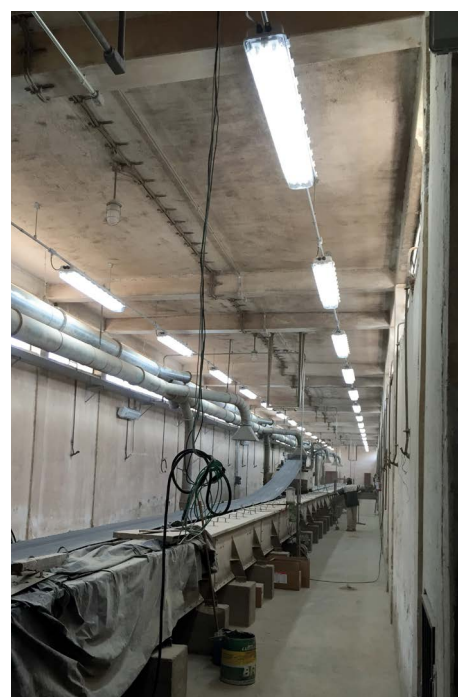
Looping the cable on one side:

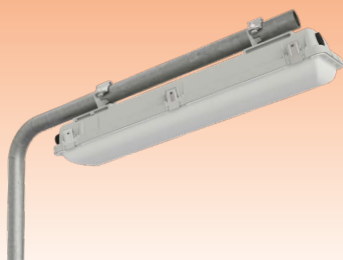
All light fittings of series nD866... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.

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

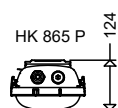
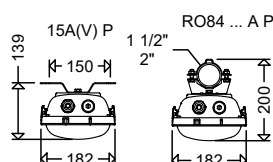
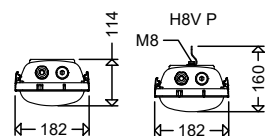
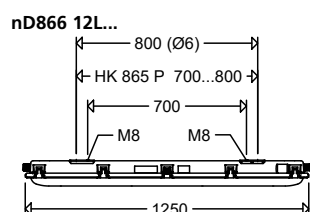
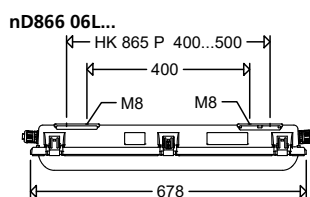
See "Technical Supplement"

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



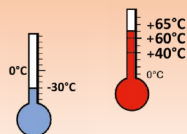


Pole mount with pipe clamps RO84P



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 packing material)
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nD866...



EU-Type Examination Certificate:

IBExU 16 ATEX B006

Other approvals:

IECx IBE 15.0015

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: 220-240V AC/DC, 0 or 50/60Hz.

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
86600 0012	nD866 12L42	28	4.590	164	•	40	2 x 36W	5,4
86600 0013	nD866 12L60	40	6.320	158	•	40	2 x 58W	5,4
86600 0014	nD866 12L85	54	9.010	167	•	40	> 2 x 58W	5,5

nD866... DIMD

dimable via DALI interface

Design:

Same as standard version, but with DALI2-compatible ECG and 2 additional clamping points, marked with DA, the polarity does not matter:

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 1903	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..

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
86600 0015	nD866 12L42 H65	28	4.590	164	•	65	2 x 36W	5,4
86600 0017	nD866 12L60 H60	40	6.320	158	•	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.

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



Accessories / Spare Parts

Article No.	Type	
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 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 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 EX	ex-breather M25 x 1,5
Mounting material		
86501 9003	HK 865 P	2 retaining clips for variable mounting distances
90001 0002	H8V P	2 suspensions eyes with bolts, stainless steel
90000 0002	15A P	2 ceiling brackets, hot galvanized steel
90032 0002	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 clamps 2", stainless steel, with support also for pole mounting
26000 0008	W 26 L P	2 wall mounting angles, hot galvanized steel
26000 0002	W 26/30 P	2 wall mounting angles 30°, hot galvanized steel
26000 0003	W 26/45 P	2 wall mounting angles 45°, hot galvanized steel