

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.

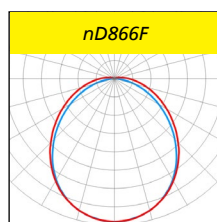
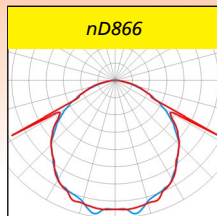
Connection: 3 poles up to 2,5 mm².

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, lifetime L₈₀ > 100.000h,

L₉₀ > 80.000h (06L..), L₉₀ > 90.000h (12L..) at 25°C ambient temperature, lifetime L₈₀ > 100.000h at max. 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

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

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
- ECG and reflector with LED-modules replaceable by qualified personnel on-site



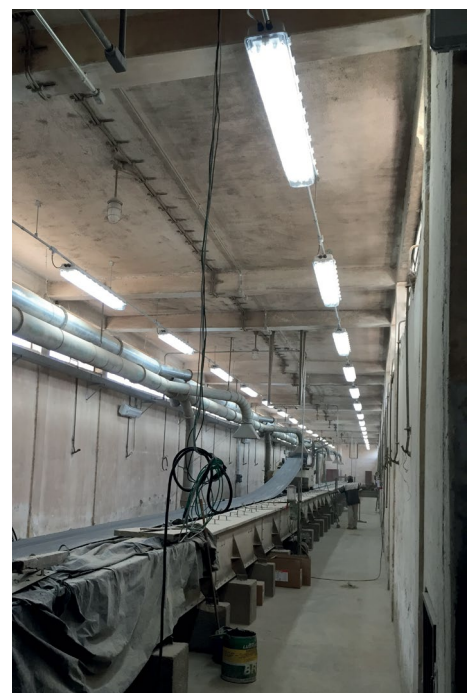
Looping the cable on one side:

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:

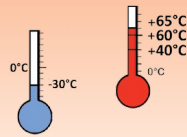
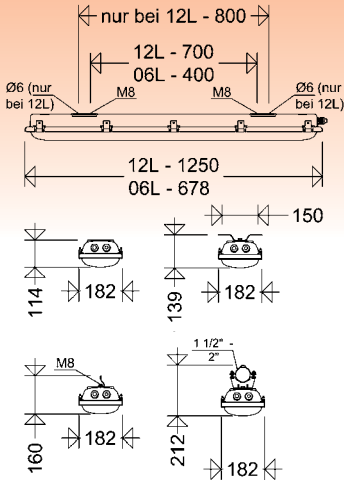
See "Technical Supplement"

All technical data is relevant at the time of print. Actual technical data can be found in the internet under www.schuch.de.



Article no.	Type	Power consumption [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Ta max [°C]	Energy efficiency class	Substitute for *	Weight [kg] (without packingmaterial)
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nD866...



EC-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)

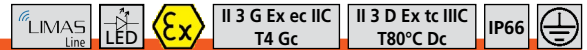
Rated voltage: 220-240V AC/DC, 0 or 50/60Hz.

Permissible ambient temperature:

-30°C see article table

86600 0050	nD866F 06L22	15	2.170	145	•	40	A++	2 x 18W	3,3
86600 0051	nD866F 06L42	28	4.120	147	•	40	A++	2 x 36W	3,4
86600 0052	nD866F 06L60	40	5.700	143	•	40	A++	2 x 58W	3,4
86600 0002	nD866F 12L42	28	4.360	156	•	40	A++	2 x 36W	5,4
86600 0003	nD866F 12L60	40	6.020	151	•	40	A++	2 x 58W	5,4
86600 0004	nD866F 12L85	54	8.620	160	•	40	A++	> 2 x 58W	5,5
86600 0012	nD866 12L42	28	4.590	164	•	40	A++	2 x 36W	5,4
86600 0013	nD866 12L60	40	6.320	158	•	40	A++	2 x 58W	5,4
86600 0014	nD866 12L85	54	9.010	167	•	40	A++	> 2 x 58W	5,5

nD866... DIMD



dimmable via DALI interface

Design:

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

Compatible with LIMAS Line 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	A++	2 x 36W	3,4
86600 0953	nD866F 06L60 DIMD	40	5.700	143	•	40	A++	2 x 58W	3,4
86600 0018	nD866F 12L42 DIMD	28	4.360	156	•	40	A++	2 x 36W	5,4
86600 1903	nD866F 12L60 DIMD	40	6.020	151	•	40	A++	2 x 58W	5,4
86600 0904	nD866F 12L85 DIMD	54	8.620	160	•	40	A++	> 2 x 58W	5,5

nD866... H..



for high temperature ¹⁾

86600 0005	nD866F 12L42 H65	28	4.360	156	•	65	A++	2 x 36W	5,4
86600 0008	nD866F 12L60 H60	40	6.020	151	•	60	A++	2 x 58W	5,4
86600 0015	nD866 12L42 H65	28	4.360	156	•	65	A++	2 x 36W	5,4
86600 0017	nD866 12L60 H60	40	6.020	151	•	60	A++	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.

Fasteners
KE/KES VE10



KE/KES G2 VE10



Accessories / Spare Parts

Article No.	Type	
Spare covers		
86601 9014	8652F	PC, frosted for 06L..
86601 9001	8654F	PC, frosted for 12L..
86601 9000	8654	PC, clear for 12L..
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 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..
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
90259 9000	Klimastutzen EX	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 1/2", stainless steel, with support
90038 0004	RO84 2 A P	2 pipe clamps 2", stainless steel, with support
26000 0004	W26 P	2 wall mounting angles
26000 0002	W26/30 P	2 wall mounting angles 30°
26000 0003	W26/45 P	2 wall mounting angles 45°