



## 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 mm<sup>2</sup>.

**Cable entries:** 3 entries M25 x 1,5,

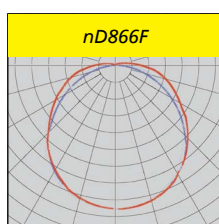
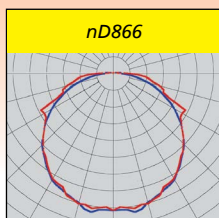
(2 glands - one of them is plugged)

**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: L<sub>70</sub>B<sub>10</sub> > 100.000h

L<sub>80</sub>B<sub>50</sub> > 100.000h

L<sub>90</sub>B<sub>50</sub> > 50.000h

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 **replacable 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:

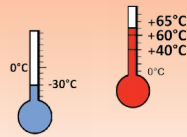
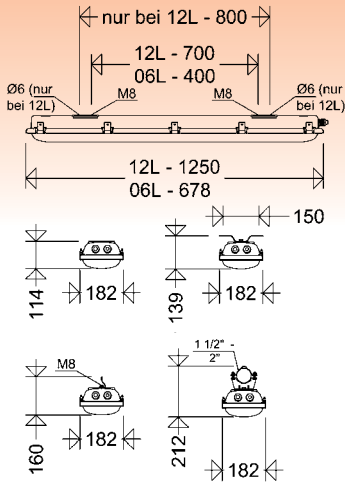
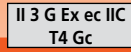
See "Technical Supplement"

All technical data is relevant at the time of print. Actual technical data can be found in the internet under [www.schuch.de](http://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 packing material)
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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 IIC T80°C Dc (Zone 22)

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

Permissible ambient temperature: -30°C see article table

Article No.	Type	Power consumption [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover	Ta max [°C]	Energy efficiency class	Substitute for **	Weight [kg]
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

### dimmable via DALI interface

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

### for high temperature <sup>1)</sup>

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

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

<sup>1)</sup> through-wiring or looping the cable is not permissible.

Explosion protected  
Light Fittings

## Accessories / Spare Parts

Article No.	Type	
<b>Spare covers</b>		
86601 9014	8652F	PC, frosted for 06L..
86601 9001	8654F	PC, frosted for 12L..
86601 9000	8654	PC, clear for 12L..
<b>Fasteners</b>		
90055 9004	KE/KES VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.)
<b>Glands/breather</b>		
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
<b>Mounting material</b>		
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°