

LED-Steep roof light fitting for Ex-Zone 2/22 Series nD822...

Applications:

Hazardous areas of Zones 2 (gas) and 22 (dust), e.g. cleanrooms, paint shops and spray booths.

Design:

Housing: Sheet steel, powder coated in light grey (RAL 7035), silicone foam gasket.

Glass cover: Impact resistant safety glass pane, frameless / hinged.

Central locking system: Operated by a 5 mm allen key, internal hinges on the opposite side.

Reflector: Hinged; white painted sheet steel; detachable, carrying LED-modules and glare limitation modules.

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:

Mounting accessories see spare parts/ accessories.

Technical Data:

LED: Line modules appr. 5,000 K, CRI > 80, service life L₈₀ > 100,000 h at max. ambient temperature, L₉₀ > 75,000 h at 25 °C 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)

– stainless steel version (E.), painted

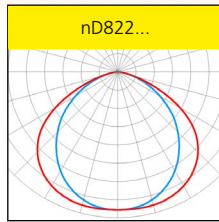
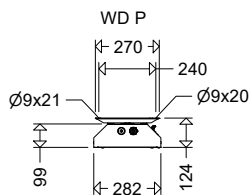
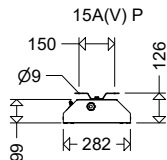
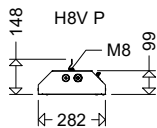
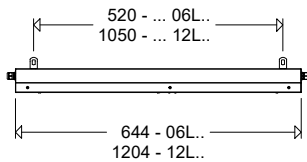
– for installation in thermally insulated ceilings in accordance with EN 60598

– for connection to central emergency supply systems (ZB)

– for connection to central emergency supply systems with integrated monitoring module

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:

- extremely flat and robust design
- perfect protection of the LED from mechanical or electrostatic damages with at the same time homogeneous illumination with glare limitation modules, no individual light points visible, comfortable perception of light, excellent glare limitation
- high colour rendering index CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- comfortable central locking system with internal hinges
- separate, frame for recessed installation or a swivel arm mounting system can easily be installed at a later stage, (frame for recessed installation not suitable for stainless steel version!)
- sustainable, control gear and reflector with LED-modules replaceable by qualified personnel on-site
- suitability for paint booths LABS-tested according to VDMA 24364-C2-L



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
-------------	------	--------------------	--------------------	--------------------------	-------------	------------------	--

nD822...



II 3 G Ex ec
IIC T4 Gc

II 3 D Ex tc
IIIC T80°C Dc

IP65



Ignition protection: ec

Marking:

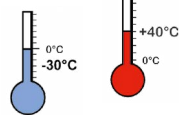
II 3 G Ex ec IIC T4 Gc (Zone 2)

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 up to +40 °C



Looping the cable on one side:

All light fittings of series nD822... have got 2 cable entries on one small side of the housing for cable looping instead of the through-wiring system. (3-pole looping standard, 5-pole looping at additional cost)

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.

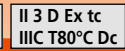
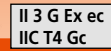
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

82200 0001	nD822 06L22	15	2.100	140	40	2 x 18W	7,6
82200 0002	nD822 06L42	28	4.110	147	40	2 x 36W	7,9
82200 0003	nD822 06L60	40	5.600	140	40	2 x 58W	7,9
82200 0050	nD822 12L42	28	4.260	152	40	2 x 36W	13,5
82200 0051	nD822 12L60	40	5.900	148	40	2 x 58W	13,5
82200 0052	nD822 12L85	54	8.350	155	40	> 2 x 58W	14,1
82200 0053	nD822 12L120	79	11.470	145	40	>3 x 58W	14,1

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
-------------	------	--------------------	--------------------	--------------------------	-------------	------------------	---

NEW

nD822... DIMD



dimnable via DALI interface

Design:

Same as standard version, but with DALI2-compatible ECG and 2 additional clamping points, marked with DA. Compatible with LIMAS Line BASIC/PRO Light Management System.

Note:

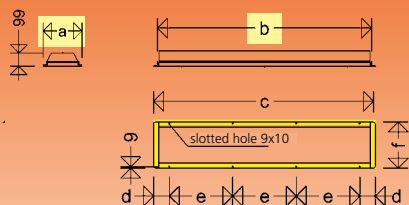
The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

82200 0007	nD822 06L22 DIMD	15	2.100	140	40	2 x 18W	7,6
82200 0008	nD822 06L42 DIMD	28	4.110	147	40	2 x 36W	7,9
82200 0009	nD822 06L60 DIMD	40	5.600	140	40	2 x 58W	7,9
82200 0061	nD822 12L42 DIMD	28	4.260	152	40	2 x 36W	13,5
82200 0058	nD822 12L60 DIMD	40	5.900	148	40	2 x 58W	13,5
82200 0054	nD822 12L85 DIMD	54	8.350	155	40	> 2 x 58W	14,1
82200 0055	nD822 12L120 DIMD	79	11.470	145	40	>3 x 58W	14,1

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

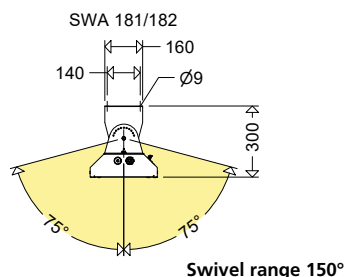
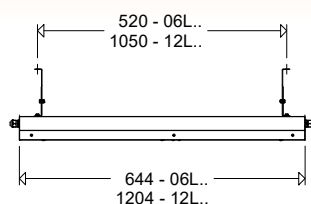
Explosion protected
Light Fittings

Installation dimensions



Type	a	b	c	d	e	f
EB 82. 06L	302	660	710	55	300	348
EB 82. 12L	302	1224	1270	125	340	348

Attention: When planning the opening for recess installation please allow additional clearance for the cable glands.



Swivel range 150°

Frame for Recessed Installation

retrofit possible!

Light fittings of series nD822... can be equipped (also retrofitted, except for stainless steel versions) with an all-round angle frame for ceiling and wall installation.

Mounting by means of M5 bolts to the long sides of the housing (see drawing).

Article No.	Type	
18091 0020	EB 82. 06L	frame for narrow housing, e821 06L, nD822 06L
18091 0021	EB 82. 12L	frame for narrow housing, e821 12L, nD822 12L

Swivel Arm Mounting System

retrofit possible!

Light fittings of series nD822... can be equipped with a swivel arm mounting system at any time.
The swivel arms are fixed to the suspen-

sion points at the upper side of the housing. Swivel range: $\pm 75^\circ$ (see dimensions in diagram).

Article No.	Type	
18092 0001	SWABF 181/182 P	for all wattages consisting of: 2 swivel arms with bolts M8



Mounting material

Suspension brackets H8V P



Ceiling brackets 15A P



Wall/ceiling angles WD 45 P



Further accessories as well as carrier rail systems and through-wiring systems are available.

Accessories / Spare Parts

Article No.	Type	
Spare glasses		
82101 9001	ABD 821 06	cover, spare safety glass clear, for 185 06 ..., e821 06 ..., nD822 06 ...
82101 9002	ABD 821 12	cover, spare safety glass clear, for 185 12 ..., e821 12 ..., nD822 12 ...
Cable entries/cable glands		
90117 9006	2537 G	ex-protected gland of size M25 x 1,5 with locknut
90119 9001	2539 G	ex-protected gland of size M25 x 1,5 with locknut and plug
90118 9006	2538 G	ex-protected plug of size M25 x 1,5 with locknut
Mounting material		
90001 0002	H8V P	2 suspension eyes, stainless steel
90000 0002	DS 15A P	2 ceiling brackets, hot galvanized steel
90032 0002	DS 15AV P	2 ceiling brackets, stainless steel
26000 0011	WDW P	2 wall/ceiling angle, painted steel
26000 0005	WDW 45 P	2 wall/ceiling angle 45°, painted steel