

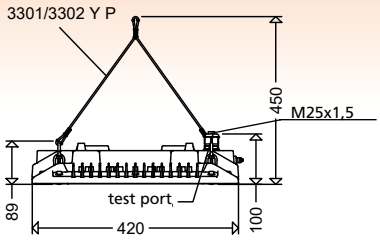
ExDUEVO

LED High Bay Fittings for Ex-Zone 2/22

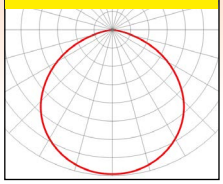
Series nD8301/nD8302...

Applications:
Hazardous locations, of Zones 2 (gas) and 22 (dust), in assembling- and production halls, warehouses, in industrial sectors, workshops, chemical factories etc.

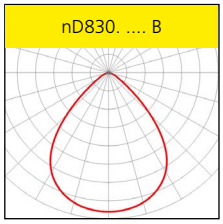
Design:
Two versions are available: 1 (nD83**01**) or 2 (nD83**02**) LED segments.
Housing: Diecast aluminum, DB 702 (mica-iron paint).
LED-segment(s) with LED modules, optics (B- and TB-types) behind tempered safety glass (IK10).
ECG segment with integrated electronic control gear, prewired on terminals.
Light distribution: Without optic wide beam, with optic wide (**B**) or narrow-wide beam (**TB**).
Connection: 5 poles up to 4 mm^2
Entries: 1 gland M25 x 1,5
Mounting material: 4 eyelets M6 (included in delivery) or see accessories/spare parts
General Purpose: Beaming downwards 0°.



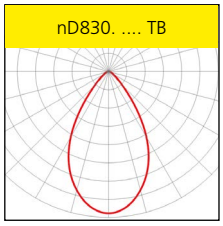
nD830. ....



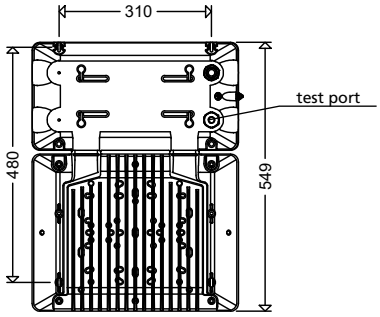
nD830. .... B



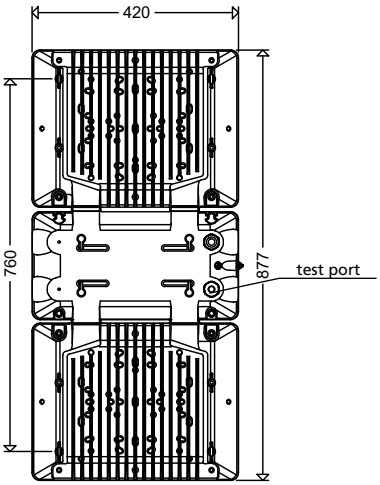
nD830. .... TB



nD8301 ...



nD8302 ...



Technical Data:
LED-module: 4,000 K, CRI > 80, service life L_{95} > 100,000 h at max. ambient temperature
ECG: 220 - 240 V, 50/60 Hz. Surge voltage resistance 4 kV, overload and short circuit protection
Ambient temperature: -30 °C up to +40 °C / +50 °C / +60 °C (see article tables)

Options:
– narrow beam (**T**)
– with narrow oval optic (**TO**), for illumination of aisles in rack areas
– cable looping at 1 small side
– for connection to central emergency supply systems (**ZB**)
– power reduction with control phase (**LR**)
– constant luminous flux function (**CL**)
– for wall mounting with wall brackets, cannot be retrofitted

Product highlights:

- high efficient by use of top-quality mid-power LEDs
- extremely high service life even at the maximum permissible ambient temperature
- **optimized thermal management** due to direct mounting of the LED modules to the housing and separate housings for ECG- and LED-moules, huge heat sink with excellent heat dissipation
- high-quality ECG with overload and short circuit protection
- **DALI interface (standard) for dimmed operation,** compatible with LIMAS Line BASIC/PRO (**DIMD**) Light Management System
- **uniform illumination due to the „Multi-Layer Technology"** i.e. every individual LED illuminates the whole surface, the light curves of the individual LED are overlapping. No dark zones if any single LED would fail. The uniformity of the illumination is kept
- **colour rendering index CRI > 80**
- control gear and LED-module replaceable by qualified personnel on-site
- **future proof by using standardised LED-modules (Zhaga)**



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

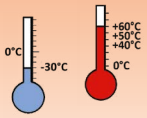
All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

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.

nD8301/nD8302...

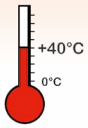
II 3 G Ex nR IIC T4 Gc | II 3 D Ex tc IIIC T100°C Dc | IP65 | -0.4m



Type Examination Certificate:
IBExU 22 ATEX B013X
Other approvals:
IECEx IBE 22.0022X
Ignition protection: nR

Marking:
II 3 G Ex nR IIC T4 Gc (Zone 2)
II 3 D Ex tc IIIC T100°C Dc (Zone 22)
Rated voltage: 220 V - 240 V, 50/60 Hz
Permissible ambient temperature:
-30 °C up to +40 °C / +50 °C / +60 °C

... for ambient temperatures up to +40 °C



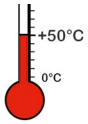
1 LED segment

Article no.	Type	Wide beam	Narrow-wide beam	Weight [kg] (without packing material)	T max [°C]	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]
83010 0001	**nD8301 L110**	•		8,9	40	66	12.000	182
83010 0004	**nD8301 L110B**	•		9,2				
83010 0007	**nD8301 L110TB**		•	9,2				
83010 0002	**nD8301 L160**	•		8,9	40	96	17.000	177
83010 0005	**nD8301 L160B**	•		9,2				
83010 0008	**nD8301 L160TB**		•	9,2				
83010 0003	**nD8301 L210**	•		8,9	40	135	23.000	170
83010 0006	**nD8301 L210B**	•		9,2				
83010 0009	**nD8301 L210TB**		•	9,2				

2 LED segments

Article no.	Type	Wide beam	Narrow-wide beam	Weight [kg] (without packing material)	T max [°C]	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]
83020 0002	**nD8302 L320**	•		14,5	40	192	34.000	177
83020 0005	**nD8302 L320B**	•		14,6				
83020 0008	**nD8302 L320TB**		•	14,6				
83020 0003	**nD8302 L420**	•		14,5	40	270	46.000	170
83020 0006	**nD8302 L420B**	•		14,6				
83020 0009	**nD8302 L420TB**		•	14,6				

... for ambient temperatures up to +50 °C



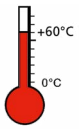
1 LED segment

Article no.	Type	Wide beam	Narrow-wide beam	Weight [kg] (without packing material)	T max [°C]	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]
83010 0101	**nD8301 L110 H50**	•		8,9	50	66	12.000	182
83010 0104	**nD8301 L110B H50**	•		9,2				
83010 0107	**nD8301 L110TB H50**		•	9,2				
83010 0102	**nD8301 L160 H50**	•		8,9	50	96	17.000	177
83010 0105	**nD8301 L160B H50**	•		9,2				
83010 0108	**nD8301 L160TB H50**		•	9,2				

2 LED segments

Article no.	Type	Wide beam	Narrow-wide beam	Weight [kg] (without packing material)	T max [°C]	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]
83020 0101	**nD8302 L220 H50**	•		14,5	50	132	24.000	182
83020 0104	**nD8302 L220B H50**	•		14,6				
83020 0107	**nD8302 L220TB H50**		•	14,6				
83020 0102	**nD8302 L320 H50**	•		14,5	50	192	34.000	177
83020 0105	**nD8302 L320B H50**	•		14,6				
83020 0108	**nD8302 L320TB H50**		•	14,6				

... for ambient temperatures up to +60 °C



1 LED segment

Article no.	Type	Wide beam	Narrow-wide beam	Weight [kg] (without packing material)	T max [°C]	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]
83010 0201	**nD8301 L110 H60**	•		8,9	60	66	12.000	182
83010 0204	**nD8301 L110B H60**	•		9,2				
83010 0207	**nD8301 L110TB H60**		•	9,2				
83010 0202	**nD8301 L160 H60**	•		8,9	60	96	17.000	177

2 LED segments

Article no.	Type	Wide beam	Narrow-wide beam	Weight [kg] (without packing material)	T max [°C]	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]
83020 0201	**nD8302 L220 H60**	•		14,5	60	132	24.000	182
83020 0204	**nD8302 L220B H60**	•		14,6				
83020 0207	**nD8302 L220TB H60**		•	14,6				
83020 0202	**nD8302 L320 H60**	•		14,5	60	192	34.000	177

Accessories / Spare Parts

Article no.	Type	
90117 9006	**2537 G**	ex-protected plastic cable gland M25 x 1,5 with locknut
90119 9001	**2539 G**	ex-protected plastic cable gland M25 x 1,5 with locknut and plug
90022 0006	**BF SAH Y 420/45 ST P**	1 pair of Y-ropes, (2-point-mounting)
33001 9002	**DBF 3301/3302**	1 pair of angle brackets for direct ceiling mounting