



## LED-Floodlight/ plane surface floodlight for Ex-Zone 2/22 Series nD8800...

### Applications:

Hazardous locations of Zones 2 (gas) and 22 (dust), indoor and outdoor areas, stockyards, construction sites, transport routes, pipe bridge, pedestrian areas etc.

### Design:

Housing and glass retaining frame are made from diecast aluminium, DB 702N (mica-iron paint). The glass frame is locked by 2 socket head cap screws (M6) and it is hinged to the body after opening. The electrical components are located inside, silicone gasket.

**Front cover:** Thermal safety glass, impact resistance IK08.

**Optic:** lens optics with narrow-wide, narrow, or asymmetric light distribution, or without Optics wide beam, Multi-Layer technology.

**Connection terminal:** 3-pole terminal, max. clamping range 2,5mm<sup>2</sup>.

**Cable entry:** 1 gland M25 x 1.5.

**Installation:** mounting bracket, swivel range 180°.

**Standard Mounting:** Facing downwards or horizontal.

### Technical Data:

**LED:** Highpower-LED 4,000K, CRI > 70, life cycle L<sub>70B10</sub> 100.000 h at max. ambient temperature.

**ECG:** 220 - 240V, 50-60Hz, Surge voltage resistance 10kV, excess temperature protection, overload and short circuit protection.

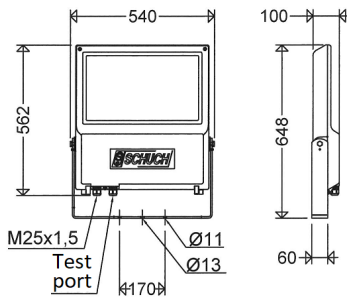
**Note:** Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited.

**Ambient temperature:** -30°C up to +40°C

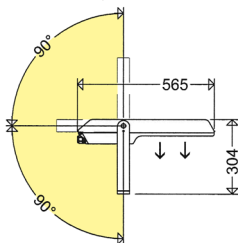
### Optionen:

- light output reduction (LR) per 230V control line (dimnable)
- DALI interface for dim light operation (DIMD)
- uniform luminous flux option (CL) to keep the light output on same level for

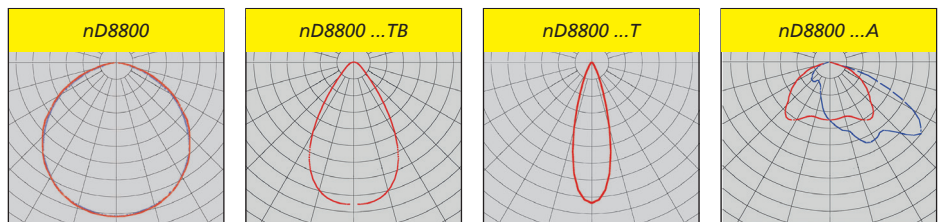
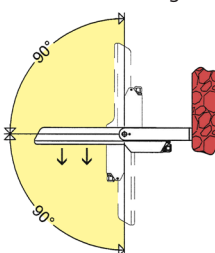
- the whole life cycle
- for higher ambient temperatures up to +50°C
- hard coating



### Swivel range



### Standard Mounting



### Schuch Quality - your advantage:

- efficient 1:1 replacement for conventional HIT 400 W floods
- optimal thermal management possible by direct connection from the LED to the diecast aluminium housing, large cooling surface, excellent thermal conductivity
- extremely high lifetime even at maximum permissible ambient temperature
- uniform illumination due to the „Multi-Layer Principle“ i.e. every individual LED illuminates the whole surface, the light curves of the individual LED are overlapping.
- future design due to use of ZHAGA conform LED modules

### Notes:

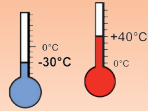
Properties, limitations and details for controlling LED-light fittings: See „Technical Supplement“.

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 ca. [lm] *	Luminous efficacy [lm/W] **	Ta max [°C]	Energy efficiency class	Substitute for **	Weight [kg] (without packing material)
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**nD8800/ ...**   **II 3 G Ex nR IIC T4 Gc** **II 3 D Ex tc IIIC T100°C Dc** **IP66**  



Ignition protection: nR

Rated voltage: 220V up to 240V AC, 50/60 Hz

Marking:

II 3 G Ex nR IIC T4 Gc

(Zone 2)

Permissible ambient temperature:

II 3 D Ex tc IIIC T100°C Dc

(Zone 22)

-30°C up to +40°C

**wide beam**

88000 0001	<b>nD8800 6403</b>	140	19.560	140	40	A++	HIT 250W	15,9
88000 0007	<b>nD8800 12803</b>	280	37.620	134	40	A++	HIT 400W	17,1

**narrow wide beam**

88000 0002	<b>nD8800 6403TB</b>	140	19.560	140	40	A++	HIT 250W	15,9
88000 0008	<b>nD8800 12802TB</b>	198	28.210	142	40	A++	HIE 400W	17,2

**narrow beam**

88000 0013	<b>nD8800 6403T</b>	140	19.560	140	40	A++	HIT 250W	15,9
88000 0014	<b>nD8800 12802T</b>	198	28.210	142	40	A++	HIE 400W	17,2

**asymmetrical beam (plane surface floodlight)**

88000 0003	<b>nD8800 6403A</b>	140	18.710	134	40	A++	HIT 250W	15,9
88000 0009	<b>nD8800 12802A</b>	198	26.950	136	40	A++	HIE 400W	17,2

\* see notes

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

Explosion protected Light Fittings

## Accessories / Spare Parts

Article no.	Type	
90117 9000	<b>2537</b>	ex-protected plastic cable gland M25 x 1,5
90119 9000	<b>2539</b>	ex-protected plastic cable gland M25 x 1,5 with plug
90270 0005	<b>ROB 60/76</b>	pipe clamp for pole Ø60-76mm