



## LED-Floodlight/ plane surface floodlight for Ex-Zone 2/22 Series nD8700...

### Applications:

Hazardous locations of Zones 2 (gas atmosphere) and 22 (dust atmosphere), indoor and outdoor areas, stockyards, e.g. 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 M20 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> 100.000h at max. ambient temperature.

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

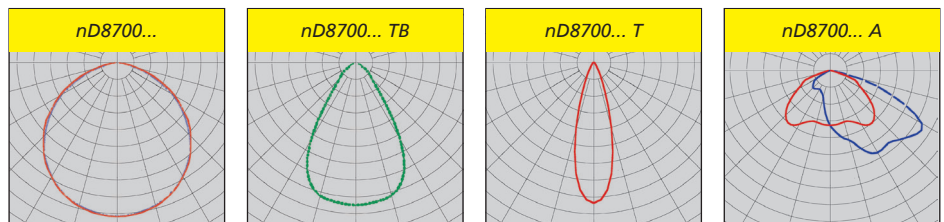
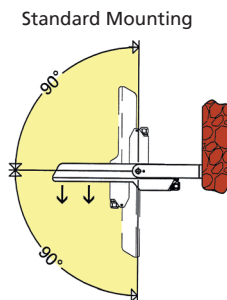
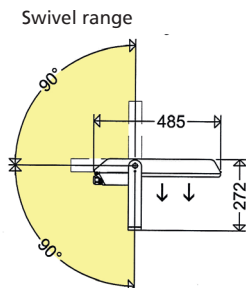
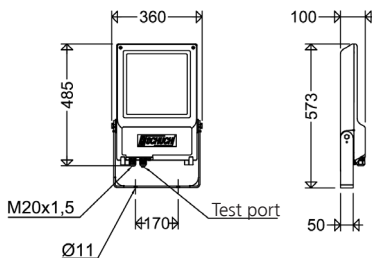
Note: Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited.

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



### Schuch Quality - your advantage:

- efficient 1:1 replacement for conventional HIT 250 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:

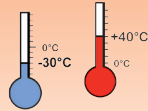
Properties, limitations and details for controlling LED-light fittings: See „Technical Supplement“.

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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**nD8700/ ...**   **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,

Marking:

50/60 Hz

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**

87000 0007	<b>nD8700 4803</b>	106	14.410	136	40	A++	HIT/HST 150W	9,6
87000 0001	<b>nD8700 6403</b>	140	19.030	136	40	A++	HIT 250W	9,6

**narrow wide beam**

87000 0008	<b>nD8700 4803TB</b>	106	14.410	136	40	A++	HIT/HST 150W	9,6
87000 0002	<b>nD8700 6403TB</b>	140	19.030	136	40	A++	HIT 250W	9,6

**narrow beam**

87000 0014	<b>nD8700 4803T</b>	106	14.410	136	40	A++	HIT/HST 150W	9,6
87000 0013	<b>nD8700 6403T</b>	140	19.030	136	40	A++	HIT 250W	9,6

**asymmetrical beam (plane surface floodlight)**

87000 0009	<b>nD8700 4803A</b>	106	13.770	130	40	A++	HIT/HST 150W	9,6
87000 0003	<b>nD8700 6403A</b>	140	17.970	128	40	A++	HIT 250W	9,6

\* 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	
90120 9000	<b>2531</b>	ex-protected plastic cable gland M20 x 1,5
90122 9000	<b>2533</b>	ex-protected plastic cable gland M20 x 1,5 with plug
90270 0005	<b>ROB 60/76</b>	pipe clamp for pole Ø60-76mm