

## LED Floodlight for Ex-Zone 1/21

### Series d9000...

#### Applications:

Hazardous locations of zones 1 and 21, onshore and offshore installations, loading stations, oil rigs, silos etc.

#### Design:

**Housing and glass retaining frame:**

From weather-resistant cast aluminium.

Operating unit located inside the housing.

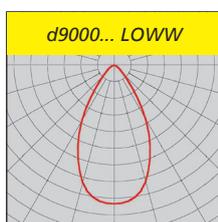
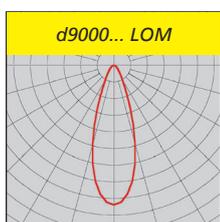
**Safety glass pane:** Resistant to temperature variations, sealed into the frame, hingeable.

**Light control:** LED optics with narrow (LOM) or narrow/wide (LOWW) beaming

characteristics.

**Connection terminal:** Standard: L1+N+PE, clamping range: 2,5mm<sup>2</sup>.

**Mounting:** Stainless steel bracket, infinitely swivelling around the longitudinal axis of the floodlight.



#### Technical Data:

**LED:** Highpower LED, typically ca. 5.000K, colour rendering index typically CRI75, shelf life  $L_{95 B_{10}} > 50.000h$  at max. ambient temperature (see notes)

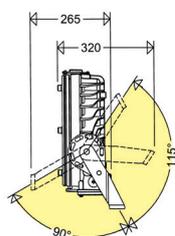
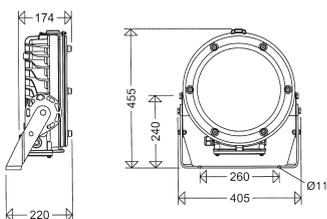
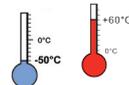
**ECG:** 220V - 240V AC, 50/60Hz. Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited. Overvoltage protection 3kV, excess temperature protection-, overload and short circuit protection.

Ambient temperature: -20°C up to +40°C

#### Options:

- clamping range up to 6mm<sup>2</sup>
- 2 cable glands for cable looping
- hard coating
- grid

- for ambient temperatures from -50°C up to +40°C/+50°C/+60°C (as per technical version)



Swivel range: ± 205

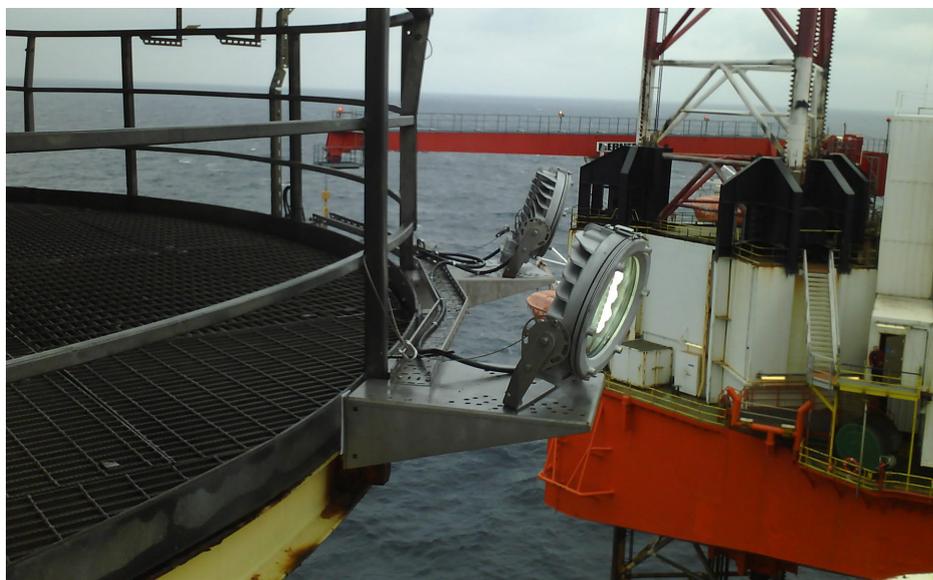
#### SCHUCH Quality - your advantage:

- housing and glass retaining frame made out of an excellent quality copper-free aluminium alloy (British Standard Marine Grade BS EN 13195) without additional painting or coating, also applicable in rough offshore installations
- instant light with maximum luminous flux even at very low temperatures (increased luminous flux)
- extremely low luminous flux decline during life cycle ( $L_{95 B_{10}}$ )
- optimal thermal management possible by direct connection from the LED to the housing, large cooling surface, excellent thermal conductivity
- homogeneous and effective light distribution by specially calculated lens optics
- infinitely adjustable tilt angle

#### 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 [lm] *	Luminous efficacy [lm/W]	Temperature class	Ta max [°C]	Energy efficiency class	Substitute for **	Weight [ca. kg] (without packaging material)
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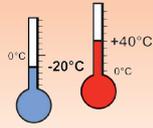
## d9000 ...



II 2 G Ex d e op is  
IIC T4/T6 Gb

II 2 D Ex tb IIIC  
T80°C Db

IP66/67



EC-Type Examination Certificate:

PTB12 ATEX 1030

Other approvals:

IECEX PTB12.0057

Marking:

II 2 G Ex d e op is IIC T4/T6 Gb (Zone 1)

II 2 D Ex tb IIIC T80°C Db (Zone 21)

Ignition protection: d ( flameproof)

Ambient temperature:

-20°C up to +40°C, -50°C up to

+50/60°C depending on version

on demand

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

### narrow beam

89000 0001	<b>d9000/4201LOM</b>	48	4.400	92	T6	40	A++	HST70/HIE150/HME250	16,8
89000 0002	<b>d9000/4203LOM</b>	90	7.700	86	T6	40	A+	HST150	16,8

### narrow wide beam

89000 0004	<b>d9000/4201LOWW</b>	48	4.400	92	T6	40	A++	HST70/HIE150/HME250	16,8
89000 0005	<b>d9000/4203LOWW</b>	90	7.700	86	T6	40	A+	HST150	16,8

\* see notes

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

\*\*\* depending on cable gland used

## Accessories / Spare Parts

Article no.	Type	
90117 9000	<b>2537</b>	Ex-protected plastic cable gland M25 x 1,5
90118 9000	<b>2538</b>	Ex-protected plastic plug M25 x 1,5