

ExSTREAM

LED-Floodlight for Ex-Zone 1/21

Series e8820...

Applications:
Hazardous areas of Zones 1 (gas) and 21 (dust). Oil and gas industry, onshore and offshore, chemical, petrochemical and pharmaceutical plants, refineries, tank farms, loading stations, etc.

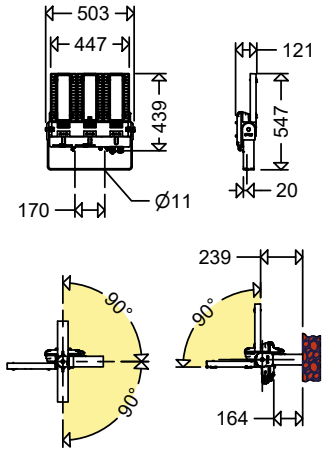
Design:
Available in 2 versions:
With three or six LED modules.
Housing: Die-cast aluminum, multi-part, thermally separated, powder-coated DB 702 (mica-iron paint, grey). LED housing with LED modules, optics and safety glass. Device housing with built-in control gear, wired ready for connection.
Front cover: Thermally resistant safety glass, impact resistance IK08.
Optics: Lens optics with narrow, narrow-wide or wide beam light distribution, Multi-Layer technology.
Connection: 5 poles, max. clamping range 4 mm².
Cable entries: 2 x M25 x 1.5 (2 glands - one of them is plugged)
Mounting: Stainless steel bracket, adjustable in 5° steps around the longitudinal axis of the floodlight.
Standard Mounting: Light beam downwards or horizontally.

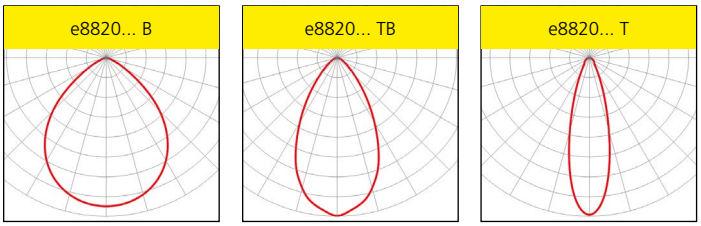
Technical Data:

LED-module: approx. 5,500 K (TB- and B-optics) or approx. 6,500 K (T-optics) , CRI > 80, service life L_{90} > 90,000 h at 25 °C ambient temperature, service life L_{80} > 100,000 h at max. ambient temperature
ECG: 220 - 240 V AC/DC, 0 or 50/60 Hz, overvoltage, overload and short circuit protection.
Ambient temperature: -30 °C up to +40 °C/+55 °C (see article tables)

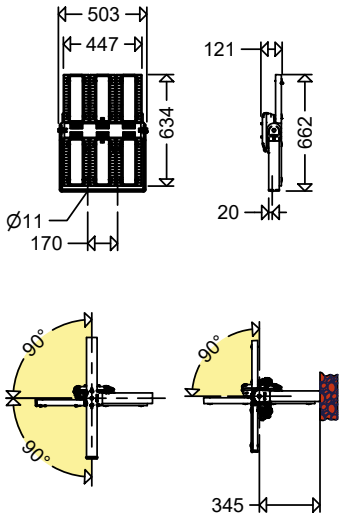
Options:
– for lower ambient temperatures (**T40**), down to -40 °C
– seawater-resistant version

e8820/3...





e8820/6...



Product highlights:

- robust, modular design
- **high efficient** by use of top-quality mid-power LEDs
- **extremely long service life** even at maximum permissible ambient temperature
- **optimized thermal management**
  – direct mounting of the LED modules to the aluminum housing
  – separate housings for ECG- and LED-moules
  – LED housing with integrated cooling fin structure
  – large cooling surface, excellent heat dissipation, very good convection
- **colour rendering index CRI > 80**, according to the workplace guide lines suitable for nearly all plant locations
- **homogeneous and effective light distribution** by specially calculated lens optics
- inclination angle adjustable in 5° steps
- control gear and LED-housing with LED-module replaceable by qualified personnel on-site
- with 0° installation, no light emission into the upper half-space, **Dark-Sky requirements are fulfilled**


Photo: BASF

! 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.

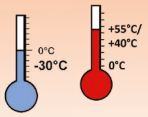
Note:

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.



e8820...

II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T100 °C Db | IP66 | -0,5m



EU-Type Examination Certificate:
ATEX: IBExU 20 ATEX 1117
Other approvals:
IECEx: IECEx IBE 20.0028
Ignition protection: eb

Marking:
II 2 G Ex eb mb q IIC T4 Gb (Zone 1)
II 2 D Ex tb IIIC T100 °C Db (Zone 21)
Rated voltage: 220 V up to 240 V AC/DC, 0 or 50/60 Hz
Permissible ambient temperature:
-30 °C up to see article tables

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Weight [kg] (without packing material)
wide beam						
88200 0001	**e8820/3 L120B H55**	87	11.850	136	55	11,2
88200 0004	**e8820/3 L150B**	125	15.800	126	40	11,2
88200 0007	**e8820/6 L240B H55**	174	23.700	136	55	17,2
88200 0010	**e8820/6 L300B**	250	31.600	126	40	17,2
narrow wide beam						
88200 0002	**e8820/3 L120TB H55**	87	11.100	128	55	11,2
88200 0005	**e8820/3 L150TB**	125	14.650	117	40	11,2
88200 0008	**e8820/6 L240TB H55**	174	22.200	128	55	17,2
88200 0011	**e8820/6 L300TB**	250	29.300	117	40	17,2
narrow beam						
88200 0003	**e8820/3 L120T H55**	87	10.300	118	55	11,2
88200 0006	**e8820/3 L150T**	125	13.500	108	40	11,2
88200 0009	**e8820/6 L240T H55**	174	20.600	118	55	17,2
88200 0012	**e8820/6 L300T**	250	27.000	108	40	17,2

e8820... DIMD

LIMAS | II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T100 °C Db | IP66 | -0,5m

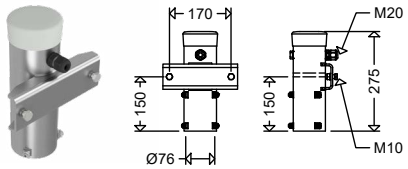
dimmable via DALI interface

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

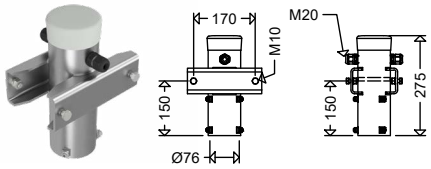
Note:
The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Weight [kg] (without packing material)
wide beam						
88200 0100	**e8820/3 L120B H55 DIMD**	87	11.850	136	55	11,2
88200 0103	**e8820/3 L150B DIMD**	125	15.800	126	40	11,2
88200 0106	**e8820/6 L240B H55 DIMD**	174	23.700	136	55	17,2
88200 0109	**e8820/6 L300B DIMD**	250	31.600	126	40	17,2
narrow wide beam						
88200 0101	**e8820/3 L120TB H55 DIMD**	87	11.100	128	55	11,2
88200 0104	**e8820/3 L150TB DIMD**	125	14.650	117	40	11,2
88200 0107	**e8820/6 L240TB H55 DIMD**	174	22.200	128	55	17,2
88200 0110	**e8820/6 L300TB DIMD**	250	29.300	117	40	17,2
narrow beam						
88200 0102	**e8820/3 L120T H55 DIMD**	87	10.300	118	55	11,2
88200 0105	**e8820/3 L150T DIMD**	125	13.500	108	40	11,2
88200 0108	**e8820/6 L240T H55 DIMD**	174	20.600	118	55	17,2
88200 0111	**e8820/6 L300T DIMD**	250	27.000	108	40	17,2

Single mounting: MAU 1 76/170 M10



Double mounting: MAU 2 76/170 M10



Accessories / Spare Parts

Article no.	Type	
Cable glands		
90117 9000	**2537**	ex-protected plastic cable gland M25 x 1,5
90119 9000	**2539**	ex-protected plastic cable gland M25 x 1,5 with plug
Mounting material		
75739 9001	**MAU 1 76/170 M10**	Pole top for single mounting, ø 76 mm, galvanized steel
75739 9002	**MAU 2 76/170 M10**	Pole top for double mounting, ø 76 mm, galvanized steel