

LED-Steep roof light fitting for Ex-Zone 1/21 Series e821...



Applications:

Hazardous areas of Zones 1 (gas) and 21 (dust), e.g. cleanrooms, paint shops and spray booths.

Design:

Housing: Sheet steel, powder coated in light grey (RAL 7035), silicone foam gasket.

Glass cover: Impact resistant safety glass pane, frameless / hinged.

Central locking system: Operated by a 5mm allen key, internal hinges on the opposite side.

Reflector: Hinged; white painted sheet steel; detachable, carrying the encapsulated LED-modules and glare limitation modules.

Connection: 3 poles up to 4mm².

Cable entries: 3 x M25 x 1,5 (2 glands - one of them is plugged and 1 screw plug).

Standard: Facing downwards or forwards.

Mechanical installation:

Mounting accessories see spare parts/accessories.

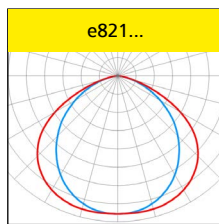
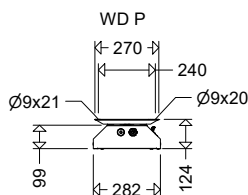
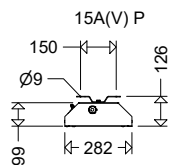
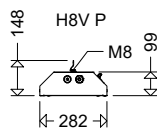
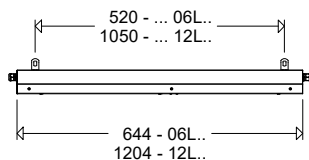
Technical Data:

LED: Line modules appr. 6,500K, CRI > 80, service life L₈₀ > 100.000h at max. ambient temperature, L₉₀ > 80.000h at 25°C ambient temperature

ECG: 220-240V AC/DC, 0 or 50/60Hz, overvoltage, overload and short circuit protection

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.



Options:

- 4,500K, light colour 845

- for connection to group or central battery (light fittings of version ZB only) or emergency mains respectively

- with monitoring module for monitoring the individual light fitting

- housing made from stainless steel, painted

- prepared for 5-core cable looping system

- with through wiring system

- Installation in thermally insulated ceilings (acc. to EN60598)

- for higher ambient temperatures up to +65°C depending on version

STAINLESS STEEL
corrosion resistant



Product highlights:

- extremely flat and robust design
- innovative LED encapsulation with high transmission rate
- perfect protection of the LED from mechanical or electrostatic damages with at the same time homogeneous illumination with glare limitation modules, no individual light points visible, comfortable perception of light, excellent glare limitation
- high colour rendering index CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- comfortable central locking system with internal hinges
- separate, frame for recessed installation or a swivel arm mounting system can easily be installed at a later stage, (frame for recessed installation not suitable for stainless steel version!)
- sustainable, control gear and reflector with LED-modules replaceable by qualified personnel on-site
- suitability for paint booths LABS-tested according to VDMA 24364-C2-L

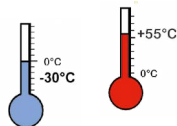


Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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Looping the cable on one side:

All light fittings of series e821... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system. (3-pole looping standard, 5-pole looping at additional cost)

e821...



EU-Type Examination Certificate:

IBExU 20 ATEX 1017

Other approvals:

IECEx IBE 19.0032

Ignition protection: eb

Marking:

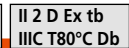
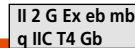
II 2 G Ex eb mb q IIC T4 Gb (Zone1)

II 2 D Ex tb IIIC T80°C Db (Zone 21)

Rated voltage: 220-240V AC/DC, 0 or 50/60Hz.

Permissible ambient temperature: -30°C up to +55°C

The values given are for versions with through wiring.



Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

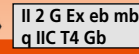
All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

82100 0001	e821 06L22	15	2.100	140	55	2 x 18W	7,7
82100 0002	e821 06L42	28	4.110	147	55	2 x 36W	7,9
82100 0003	e821 06L60	40	5.600	140	55	2 x 58W	7,9
82100 0050	e821 12L42	28	4.260	152	55	2 x 36W	13,6
82100 0051	e821 12L60	40	5.900	148	55	2 x 58W	14,0
82100 0052	e821 12L85	54	8.350	155	55	> 2 x 58W	14,0
82100 0053	e821 12L120	79	11.470	145	55	> 3 x 58W	14,0

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

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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e821... DIMD



dimable via DALI interface

Design:

Same as standard version, but with DALI2-compatible ECG and 2 additional clamping points, marked with DA; the polarity does not matter:

Compatible with LIMAS Line BASIC/PRO Light Management System.

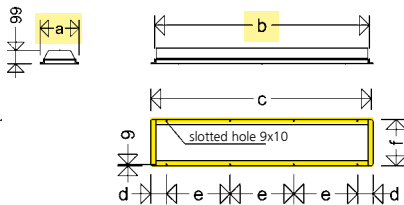
Note:

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

82100 0005	e821 06L42 DIMD	28	4.110	147	55	2 x 36W	7,9
82100 0006	e821 06L60 DIMD	40	5.600	140	55	2 x 58W	7,9
82100 0054	e821 12L42 DIMD	28	4.260	152	55	2 x 36W	13,6
82100 0055	e821 12L60 DIMD	40	5.900	148	55	2 x 58W	14,0
82100 0056	e821 12L85 DIMD	54	8.350	155	55	> 2 x 58W	14,0
82100 0057	e821 12L120 DIMD	79	11.470	145	55	> 3 x 58W	14,0

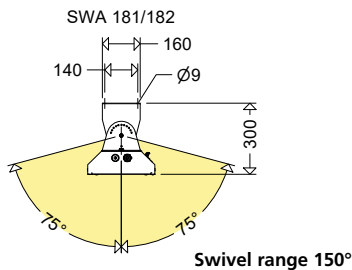
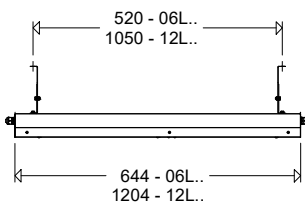
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

Installation dimensions



Type	a	b	c	d	e	f
EB 82. 06L	302	660	710	55	300	348
EB 82. 12L	302	1224	1270	125	340	348

Attention: When planning the opening for recess installation please allow additional clearance for the cable glands.



Further accessories as well as carrier rail systems and through wiring systems are available.

Frame for Recessed Installation

retrofit possible!

Light fittings of series e821... can be fitted with a surrounding angled frame for ceiling and wall installation (also retrofitted, except for stainless steel versions).

Mounting by means of M5 bolts to the long sides of the housing (see drawing).

Article No.	Type	
18091 0020	EB 82. 06L	frame for narrow housing, e821 06L, nD822 06L
18091 0021	EB 82. 12L	frame for narrow housing, e821 12L, nD822 12L

Swivel Arm Mounting System

retrofit possible!

Light fittings of series e821... can be equipped with a swivel arm mounting system at any time. The swivel arms are fixed to the suspen-

sion points at the upper side of the housing. Swivel range: $\pm 75^\circ$ (see dimensions in diagram).

Article No.	Type	
18092 0001	SWA 181/182 P	for all wattages consisting of: 2 swivel arms with bolts M8

Accessories / Spare Parts

Article No.	Type	
Spare glasses		
82101 9001	ABD 821 06	cover, spare safety glass clear, for 185 06 ..., e821 06 ..., nD822 06 ...
82101 9002	ABD 821 12	cover, spare safety glass clear, for 185 12 ..., e821 12 ..., nD822 12 ...
Cable entries/cable glands		
90117 9006	2537 G	ex-protected gland of size M25 x 1,5 with nut
90119 9001	2539 G	ex-protected gland of size M25 x 1,5 with nut and plug
90118 9006	2538 G	ex-protected plug of size M25 x 1,5 with nut
Mounting material		
90001 0002	H8V P	2 suspension eyes, stainless steel
90000 0002	15A P	2 ceiling brackets, hot galvanized steel
90032 0002	15AV P	2 ceiling brackets, stainless steel
26000 0011	WD P	2 wall/ceiling angle, painted steel
26000 0005	WD 45 P	2 wall/ceiling angle 45°, painted steel