

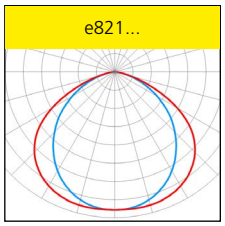
LED-Steep roof light fitting for Ex-Zone 1/21
Series e821...

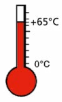
Applications:
Hazardous areas of Zones 1 (gas) and 21 (dust), e.g. cleanrooms, paint shops and spray booths.

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 5 mm 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 4 mm².
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.

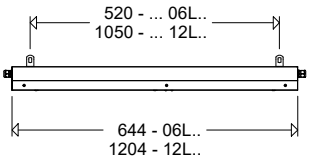
Technical Data:
LED: Line modules appr. 6,500 K, CRI > 80, service life L_{90} > 80,000 h at 25 °C ambient temperature, service life L_{80} > 100,000 h at max. ambient temperature
ECG: 220-240 V AC/DC, 0 or 50/60 Hz, overvoltage, overload and short circuit protection

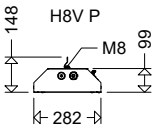
Note:
This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

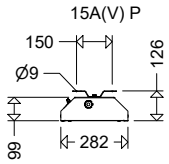


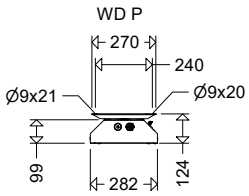


Options:
– 4,500 K; light colour (**845**)
– through-wiring (**DV**)
– stainless steel version (**E.**), painted
– for higher ambient temperatures (**H65**), up to +65 °C
– for installation in thermally insulated ceilings in accordance with EN 60598
– for connection to central emergency supply systems (**ZB**)
– for connection to central emergency supply systems with integrated monitoring module





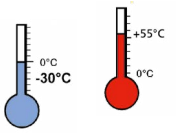




Product highlights:
- extremely flat and robust design
- **innovative LED encapsulation** with high transmission rate
- **perfect protection of the LED from mechanical or electrostatic damages with at the same time homogeneous Illumination with glare limitation modules,** no individual light points visible, 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!)
- 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)
e821...						II 2 G Ex eb mb q IIC T4 Gb / II 2 D Ex tb IIIC T80°C Db / IP65	
82100 0001	**e821 06L22**	15	2.100	140	55	2 x 18W	9,1
82100 0002	**e821 06L42**	28	4.110	147	55	2 x 36W	9,4
82100 0003	**e821 06L60**	40	5.600	140	55	2 x 58W	9,4
82100 0050	**e821 12L42**	28	4.260	152	55	2 x 36W	14,8
82100 0051	**e821 12L60**	40	5.900	148	55	2 x 58W	14,8
82100 0052	**e821 12L85**	54	8.350	155	55	> 2 x 58W	15,7
82100 0053	**e821 12L120**	79	11.470	145	55	> 3 x 58W	15,7



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: 220-240 V AC/DC, 0 or 50/60 Hz.
Permissible ambient temperature: -30 °C up to +55 °C
The values given are for versions with through-wiring.

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 additionel cost)

! 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.

* 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)

e821... DIMD

LIMAS Line | Ex | II 2 G Ex eb mb q IIC T4 Gb | II 2 D Ex tb IIIC T80°C Db | IP65 | ⏚

dimmable via DALI interface

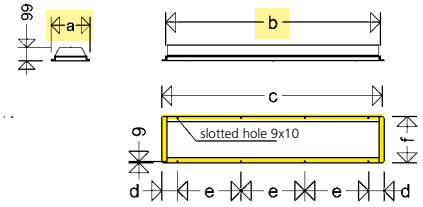
Design:
Same as standard version, but with DALI-2-compatible ECG and 2 additional clamping points, marked with DA. Compatible with **LIMAS Line BASIC/PRO** Light Management System.

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

82100 0005	**e821 06L42 DIMD**	28	4.110	147	55	2 x 36W	9,4
82100 0006	**e821 06L60 DIMD**	40	5.600	140	55	2 x 58W	9,4
82100 0054	**e821 12L42 DIMD**	28	4.260	152	55	2 x 36W	14,8
82100 0055	**e821 12L60 DIMD**	40	5.900	148	55	2 x 58W	14,8
82100 0056	**e821 12L85 DIMD**	54	8.350	155	55	> 2 x 58W	15,7
82100 0057	**e821 12L120 DIMD**	79	11.470	145	55	> 3 x 58W	15,7

* 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.

Frame for Recessed Installation

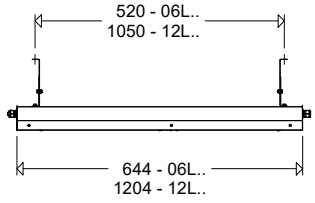
retrofit possible!

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

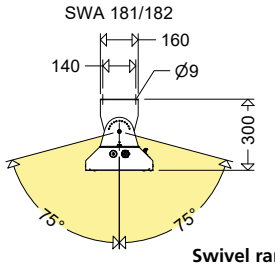
Swivel Arm Mounting System



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 suspension points at the upper side of the housing. Swivel range: ± 75° (see dimensions in diagram).

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



Swivel range 150°

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 plastic cable gland M25 x 1,5 with locknut
90119 9001	**2539 G**	ex-protected plastic cable gland M25 x 1,5 with locknut and plug
90118 9006	**2538 G**	ex-protected plastic plug M25 x 1,5 with locknut
Mounting material		
90001 0002	**H8V P**	2 suspension eyes, stainless steel
90000 0002	**DS 15A P**	2 ceiling brackets, hot galvanized steel
90032 0002	**DS 15AV P**	2 ceiling brackets, stainless steel
26000 0011	**WDW P**	2 wall/ceiling angle, painted steel
26000 0005	**WDW 45 P**	2 wall/ceiling angle 45°, painted steel

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