

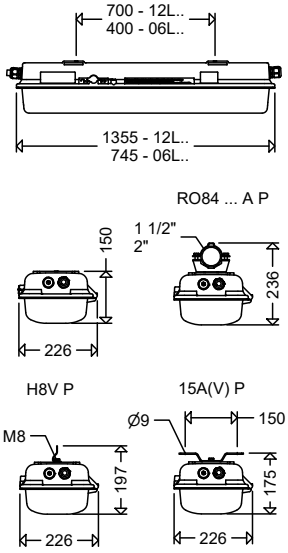
LED-Light Fitting for Ex-Zone 1/21
Series e840...

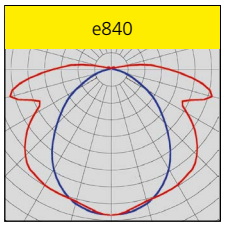
Applications:
Hazardous locations of Zone 1/2 (gas) and 21/22 (dust) .

Design:
Housing: Glass fibre reinforced polyester resin.
Cover: Clear polycarbonate with internal prisms, hinged, silicone gasket.
Central locking system: Operated by a hexagonal socket wrench 13 mm.
Reflector: Aluminium, carrying the encapsulated LED-modules with frosted covers for glare limitation, hingeable and removable.
Connection: 3 poles up to 4 mm².
Cable entries: 3 entries M25 x 1.5, (2 glands - one of them is plugged), PM-version: 1 x M20 x 1.5.
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} > 85,000 h (06L..), service life L_{90} > 75,000 h (12L..) 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**)
- for higher ambient temperatures (**H65**), up to +65 °C
- for connection to central emergency supply systems (**ZB**)
- for connection to central emergency supply systems with integrated monitoring module
- dimming function via DALI-2-compatible interface, can be combined with LIMAS Line wired Light Management System (**DIMD**)

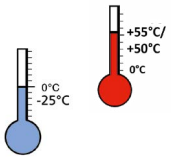
Product highlights:
- extremly robust construction of housing and diffuser
- comfortable central locking mechanism for easy maintenance
- **innovative encapsulation** with high transmission rate
- homogene lighting distribution by frosted anti-glare modules-protecting the LEDs as well of ESD and mechanical damage. No individual light points visible, comfortable perception of light, brilliant glare limitation.
- **high colour rendering index CRI > 80**, according to the workplace guide lines suitable for nearly all plant locations
- control gear and reflector with LED-modules replaceable by qualified personnel on-site
- the light fittings are suitable for use in food areas (**IFS/HACCP**), see chapter 9.1 in the „Technical Supplement"



Looping the cable on one side:
All light fittings of series e840... have got 2 cable entries on one small side of the housing for cable looping instead of the through-wiring system.

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
e840...							

II 2 G Ex eb mb op is q IIC T4 Gb | II 2 D Ex op is tb IIIC T80°C Db | IP66



EC-Type Examination Certificate:
ATEX: IBExU 19 ATEX 1135
Other approvals:
IECEx: IECEx-Nr. IBE 19.0027
Ignition protection: eb

Marking:
II 2 G Ex eb mb op is q IIC T4 Gb (Zone1)
II 2 D Ex op is tb IIIC T80°C Db (Zone 21)
Rated voltage: 220-240 V AC/DC, 0 or 50/60 Hz.
Permissible ambient temperature:
-25 °C up to see article table

84005 0011	**e840 06L22**	16	2.054	128	55	2 x 18W	5,6
84005 0012	**e840 06L42**	28	4.067	145	55	2 x 36W	5,7
84005 0001	**e840 12L42**	28	4.230	151	55	2 x 36W	8,0
84005 0002	**e840 12L60**	40	5.850	146	55	2 x 58W	8,0
84005 0003	**e840 12L85**	54	8.300	154	50	> 2 x 58W	8,5

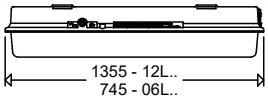
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

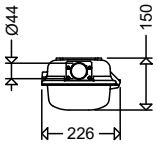
! Properties, limitations and details for controlling LED-light fittings:
See "Technical Supplement"

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

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



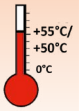




e840... PM

II 2 G Ex eb mb op is q IIC T4 Gb | II 2 D Ex op is tb IIIC T80°C Db | IP66

Mast-mounted luminaire for fitting to a mounting bracket



EU-Type Examination Certificate:
ATEX: IBExU 19 ATEX 1135
Other approvals:
IECEx: IECEx-Nr. IBE 19.0027
Ignition protection: eb
Marking:
II 2 G Ex eb mb op is q IIC T4 Gb (Zone 1)
II 2 D Ex op is tb IIIC T80°C Db (Zone 21)

Rated voltage: 220-240 V AC/DC, 0 or 50/60 Hz
Mechanical installation: integrated mounting system 06L: Ø 42 x 150 mm (Length)
12L: Ø 42 x 245 mm (Length)
Permissible ambient temperature:
-25 °C up to see article table

84005 0911	**e840 06L22 PM**	16	2.054	128	55	2 x 18W	7,9
84005 0912	**e840 06L42 PM**	28	4.067	145	55	2 x 36W	8,0
84005 0901	**e840 12L42 PM**	28	4.230	151	55	2 x 36W	8,1
84005 0902	**e840 12L60 PM**	40	5.850	146	55	2 x 58W	8,1
84005 0903	**e840 12L85 PM**	54	8.300	154	50	> 2 x 58W	8,7

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



Accessories / Spare Parts

Article No.	Type	
Spare diffuser		
84001 9008	**ABD 8402 SIL**	cover, diffuser PC clear, silicone seal, for e840 06 ..., nD844 06... each up to year of manufacture 2017, in some cases also 2018/2019 (FA number required)
84001 9009	**ABD 8402 SIL G**	Cover, diffuser PC clear, silicone seal, for e840 06 ..., nD844 06... from year of manufacture 2020, in some cases also 2018/2019 (FA number required)
84001 9004	**ABD 8404 SIL**	cover, tray PC clear, silicone seal, for e840 12 ..., nD844 12 ..., 144 12 ...
Cable glands/breather		
90117 9006	**2537 G**	ex-protected plastic cable gland M25 x 1,5 with locknut
90118 9006	**2538 G**	ex-protected plastic plug M25 x 1,5 with locknut
90119 9001	**2539 G**	ex-protected plastic cable gland M25 x 1,5 with blanking plug and locknut
90259 9000	**KS25 G EX**	ex-breather M25 x 1,5
Mounting material		
90001 0002	**H8V P**	2 suspensions eyes with bolts, stainless steel
90000 0002	**DS 15A P**	2 ceiling brackets, hot galvanized steel
90032 0002	**DS 15AV P**	2 ceiling brackets, stainless steel
90000 0011	**DW 84 AA P**	1 pair of brackets, stainless steel, for compensating the different mounting distances of types e840 / e152 or e841 / e148
90037 0004	**RO84 112 A P**	2 pipe clamps 1 ½", stainless steel, with support
90038 0004	**RO84 2 A P**	2 pipe clambs 2", stainless steel, with support
26000 0008	**WW 26 L P**	2 wall mounting angles, hot galvanized steel
26000 0002	**WW 26 30 P**	2 wall mounting angles 30°, hot galvanized steel
26000 0003	**WW 26 45 P**	2 wall mounting angles 45°, hot galvanized steel