

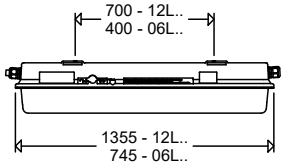
LED-Light Fitting for Ex-Zone 1/21
Series e840...

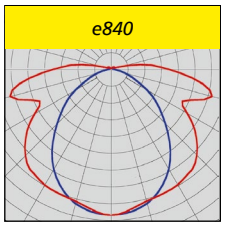
Applications:
Hazardous locations of Zone 1/2 (gas) and 21/22 (dust) .

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 13mm.
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.

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.

Technical Data:
LED: Line modules appr. 6,500K, CRI > 80, lifetime L_{80} > 100.000h, L_{90} > 85.000h (06L..), L_{90} > 75.000h (12L..) at 25°C ambient temperature, lifetime L_{80} > 100.000h at max. ambient temperature
ECG: 220-240V AC/DC, 0 or 50/60Hz, overvoltage, overload and short circuit protection

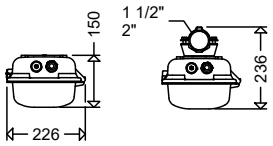




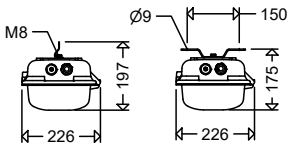
Options:
– 4.500K, light colour **845**
– for connection to group or central battery (light fittings of version ZB only) or emergency mains respectively
– with monitoring module for monitoring the individual light fitting
– Control gear with dimming function via DALI2-compatible interface, suitable for the LIMAS Line Light Management System (**DIMD**)
– with through-wiring 5 x 2,5mm²
– for higher ambient temperatures up to +65°C depending on version
– with through wiring system



RO84 ... A P



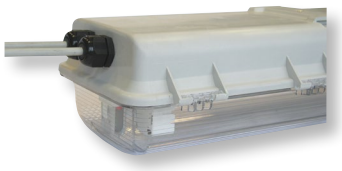
H8V P 15A(V) P



Product highlights:



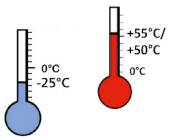
- extremly robust construction of housing and diffuser
- comfortable central locking mechanism for easy maintenance
- **innovative encapsulation with high transmission rate**
- homogene lighting distribution by frosted anti-glare modules-protecting the LEDs as well of ESD and mechanical damage. No individual 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
- ECG and reflector with LED-modules **replacable by qualified personnel on-site**



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	Power consumption [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
e840...							

LED | Ex | 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:
IBExU 19 **ATEX** 1135
Other approvals:
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: 220-240V AC/DC, 0 or 50/60Hz.
Permissible ambient temperature: -25°C up to see article table

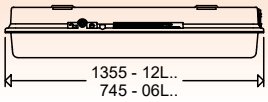
84005 0011	**e840 06L22**	16	2.054	128	55	2 x 18W	5,6
84005 0012	**e840 06L42**	28	4.067	145	55	2 x 36W	5,7
84005 0001	**e840 12L42**	28	4.230	151	55	2 x 36W	8,0
84005 0002	**e840 12L60**	40	5.850	146	55	2 x 58W	8,0
84005 0003	**e840 12L85**	54	8.300	154	50	> 2 x 58W	8,5

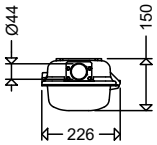
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

! 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.



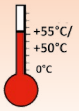




e840... PM

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

Pole mounted light fitting with integrated mounting system



EC-Type Examination Certificate:
IBExU 19 **ATEX** 1135
Other approvals:
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: 220-240V AC/DC, 0 or 50/60Hz
Mechanical installation: integrated mounting system 06L: Ø 42 x 150mm (Length)
12L: Ø 42 x 245mm (Length)
Permissible ambient temperature:
-25°C up to see article table

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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	**8402 SIL**	for e 840 06L.. up to year of construction 2017, partly for year of construction 2018/19, can only be ordered with specification of the FA number. of the luminaire
84001 9009	**8402 SIL G**	for e 840 06L.. from year of construction 2020, partly for year of construction 2018/19, can only be ordered with specification of the FA number of the luminaire
84001 9004	**8404 SIL**	for e840 12L..
Cable glands/breather		
90117 9000	**2537**	ex-protected plastic cable gland M25 x 1,5 with nut
90118 9000	**2538**	ex-protected plastic plug M25 x 1,5 with nut
90259 9000	**KS25 EX**	ex-breather M25 x 1,5
Mounting material		
90001 0002	**H8V P**	2 suspensions eyes with bolts, stainless steel
90000 0002	**15A P**	2 ceiling brackets, hot galvanized steel
90032 0002	**15AV P**	2 ceiling brackets, stainless steel
90000 0011	**84 AA**	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	**W 26/L P**	2 wall mounting angles
26000 0002	**W 26/30 P**	2 wall mounting angles 30°
26000 0003	**W 26/45 P**	2 wall mounting angles 45°