

LED-Light Fitting for Ex-Zone 1/2/1 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 encapsu-

lated 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 L₈₀ > 100,000 h at max. ambient temperature, L₉₀ > 85,000 h (06L...) at 25 °C ambient temperature, L₉₀ > 75,000 h (12L...) at 25 °C ambient temperature

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

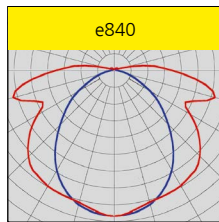
Options:

- 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



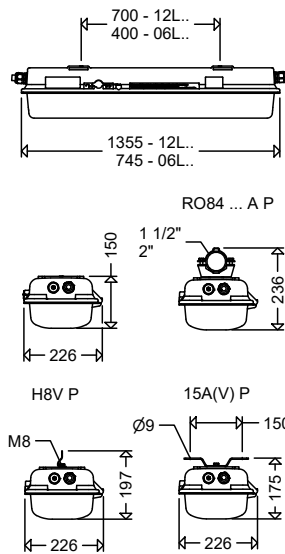
supply systems with integrated monitoring module

- dimming function via DALI2-compatible interface, can be combined with LIMAS Line Wired Light Management System (DIMD)



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.



Product highlights:

- extremely robust construction of housing and diffuser
- comfortable central locking mechanism for easy maintenance
- innovative encapsulation with high transmission rate
- homogeneous 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
- sustainable, 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)
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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



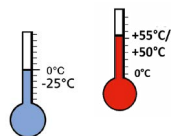
EC-Type Examination Certificate:

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

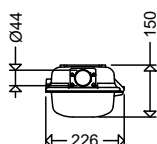
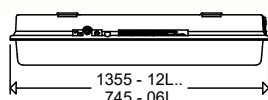
84005 0011	e840 06L22	16	2.054	128	55	2 x 18W	5,6
84005 0012	e840 06L42	28	4.067	145	55	2 x 36W	5,7
84005 0001	e840 12L42	28	4.230	151	55	2 x 36W	8,0
84005 0002	e840 12L60	40	5.850	146	55	2 x 58W	8,0
84005 0003	e840 12L85	54	8.300	154	50	> 2 x 58W	8,5

* 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)
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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

EU-Type Examination Certificate:

ATEX: IBEExU 19 ATEX 1135

Other approvals:

IECEX: IECEx-Nr. IBE 19.0027

Ignition protection: eb

Marking:

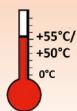
II 2 G Ex eb mb op is q IIC T4 Gb (Zone 1)

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

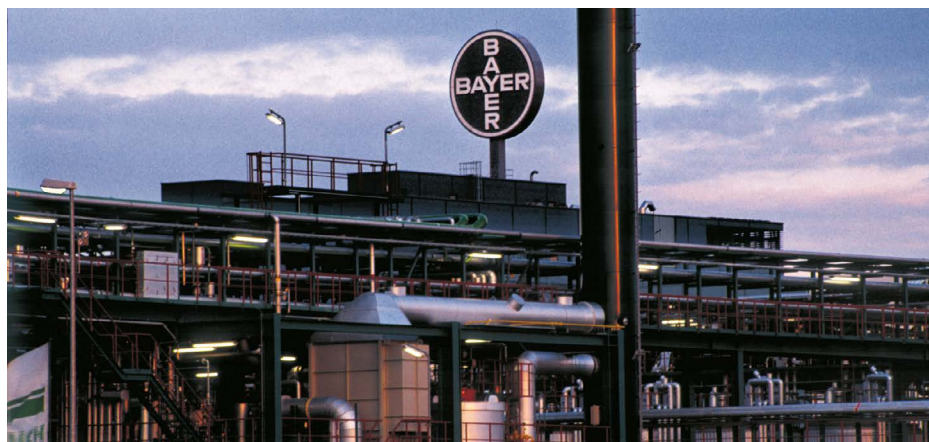
Mechanical installation: integrated mounting system 06L: Ø 42 x 150 mm (Length) 12L: Ø 42 x 245 mm (Length)

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 clamps 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