

NEW

# Explosion-Protected LED-Light Fitting for Zones 1 and 21 Series e840...



## Application:

Hazardous locations of zones 1 (gas) and 21 (dust) as standard illumination or as emergency illumination in combination with external power supply units.

## 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 encapsu-

lated LED-modules with frosted covers for glare limitation, hingeable and removable.

**Connection:** 3 poles up to 4 mm<sup>2</sup>.

**Cable entries:** 3 entries M25 x 1,5, (2 glands - one of them is plugged)

**Standard:** Facing downwards or forwards.

**Mechanical installation:**

Mounting accessories see spare parts/ accessories.

## Technical Data:

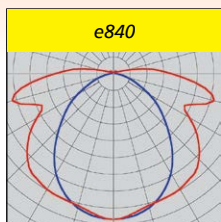
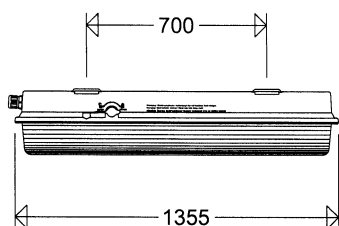
**LED:** Line modules appr. 6,500K, R<sub>a</sub> typically 80, L<sub>80</sub>B<sub>10</sub> > 50,000h at max. ambient temperature

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

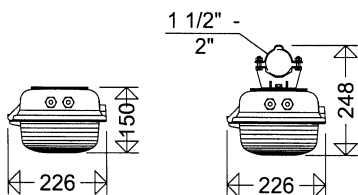
## Options:

- dimmable via DALI-interface (DIMD)
- with through-wiring 5 x 2,5mm<sup>2</sup>

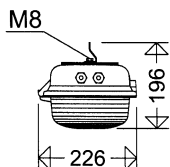
- for higher ambient temperatures up to +65°C depending on version



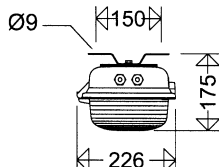
## Pipe clamp mounting



## Suspension hooks H8V

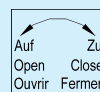


## Ceiling brackets 15A



## SCHUCH Quality - your advantage:

- LED modules with innovative encapsulation
- Explosion group IIC, hence suitable for atmospheres with hydrogen and acetylene
- highest efficiency with luminous efficacy up to 128lm/W
- homogeneous illumination due to frosted covers on the reflector for glare limitation, no particular light points visible, comfortable perception of light, brilliant glare limitation
- high colour reproduction R<sub>a</sub> typically 80, according to the workplace guide lines suitable for nearly all plant locations
- Version with higher luminous flux for areas where higher illumination is needed
- for high ambient temperatures up to +65°C (option) depending on version
- lower maintenance and downtime costs due to long maintenance intervals
- Original SCHUCH central locking system
- ECG and reflector with LED-modules replacable by qualified personnel on-site



Article no.	Type	Power consumption [W] *	Luminous flux [lm] *	Luminous efficacy [lm/W]	Ta max [°C]	Energy efficiency class	Substitute for **	Weight [kg] (without packing material)

## e840...



II 2 G Ex eb mb op is q IIC T4 Gb

II 2 D Ex tb op is IIIC T80°C Db

IP66



**Ignition protection:** eb

**Marking:**

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

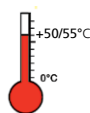
II 2 D Ex tb op is IIIC T80°C Db (Zone 21)

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

**Permissible ambient temperature:** -25°C up to see article table

## Note:

This light fitting is not suitable for applications 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.



## Notes:

**Limitations for LED-light fittings:** See chapter „Use of LED lighting in corrosive atmospheres“ in the Technical Appendix.

All technical data is relevant at the time of print. Actual technical data can be found in the internet under [www.schuch.de](http://www.schuch.de).

## optimized for energy consumption

84005 0001	e840 12L42	34	4.240	125	55	A++	2 x 36W	8,0
84005 0002	e840 12L60	47	5.610	119	55	A++	2 x 58W	8,0

## with high luminous flux

84005 0003	e840 12L85	65	8.350	128	50	A++	> 2 x 58W	8,5
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\* see notes

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



Article no.	Type	Power consumption [W] *	Luminous flux [lm] *	Luminous efficacy [lm/W]	Ta max [°C]	Energy efficiency class	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 tb op  
is IIIC T80°C Db

IP66



### Pole mounted light fitting with integrated mounting system

EC-Type Examination Certificate:

PTB 16 ATEX 2001

Ignition protection: eb

Marking:

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

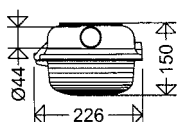
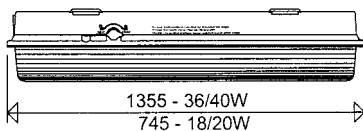
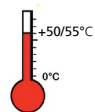
II 2 D Ex tb op is IIIC T80°C Db (Zone 21)

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

Mechanical installation: integrated mounting system Ø 42 x 245mm (Length)

Permissible ambient temperature:

-25°C up to see article table



84005 0901	<b>e840 12L42 PM</b>	34	4.240	125	55	A++	2 x 36W	8,1
84005 0902	<b>e840 12L60 PM</b>	47	5.610	119	55	A++	2 x 58W	8,1
84005 0903	<b>e840 12L85 PM</b>	65	8.350	128	50	A++	> 2 x 58W	8,7

\* see notes

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

## Accessories / Spare Parts

Article No.	Type	
<b>Spare diffuser</b>		
84001 9004	<b>8404 SIL</b>	
<b>Cable glands/ breather</b>		
90117 9000	<b>2537</b>	ex-protected plastic cable gland M25 x 1,5 with nut
90118 9000	<b>2538</b>	ex-protected plastic plug M25 x 1,5 with nut
90259 9000	<b>Klimastutzen EX</b>	breather M25 x 1,5
<b>Mounting material</b>		
90001 0002	<b>H8V P</b>	2 hooks with bolts, stainless steel
90000 0002	<b>15A P</b>	2 ceiling brackets, hot galvanized steel
90032 0002	<b>15AV P</b>	2 ceiling brackets, stainless steel
90000 0011	<b>84 AA</b>	1 pair of brackets, stainless steel, for compensating the different mounting distances of types e840 / e152 or e841 / e148
90037 0004	<b>RO84 112 A P</b>	2 pipe clamps 1 ½", stainless steel, with support
90038 0004	<b>RO84 2 A P</b>	2 pipe clamps 2", stainless steel, with support
26000 0004	<b>W 26 P</b>	2 wall mounting angles
26000 0002	<b>W 26/30 P</b>	2 wall mounting angles 30°
26000 0003	<b>W 26/45 P</b>	2 wall mounting angles 45°