

Explosion-Protected Light Fittings Series e840...



Application:

Hazardous areas of zones 1, 21 and 2, 22 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.

Gasket: Silicone, foamed.

Reflector: Glass fibre reinforced polyester, hinged and removable.

Central locking system: Operated by a hexagonal socket key 13mm.

Isolating switch: Switching off all poles

when the light fitting is opened.

Wiring: Electronic ballast with "end-of-life switching-off system".

Connection: Prepared for looping the mains cable on one small side. Terminal L1 + N + PE up to 6mm² max.

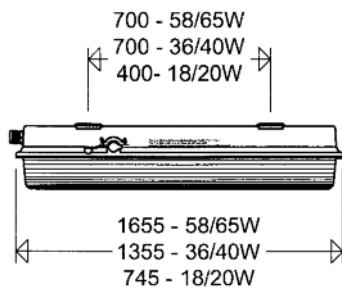
Cable entries: 3 entries M25 x 1,5 (2 glands, 1 of them with plug and 1 screw plug).

Through wiring system: Looping the mains cable at one end of the housing or through wiring up to 5x2,5mm² possible at extra charge.

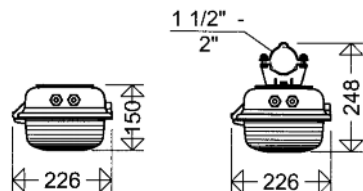
Mechanical installation: 2 suspension hooks (H8V P) or 2 ceiling brackets (15A P), see accessories.

Note:

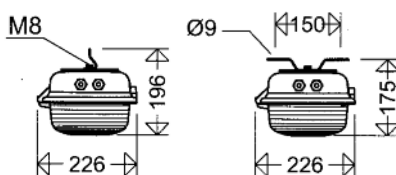
Special versions available for extreme conditions (short cycle operation, e.g. rain storage reservoirs or wastewater treatment plants and equivalent) Type E1003 to be selected.



Pipe clamp mounting



Suspension hooks H8V Ceiling brackets 15A



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.

Schuch Quality - your advantage:

- **sturdy design of high chemical resistance for application in rough industrial conditions:**
 - housing from glass fibre reinforced polyester
 - polycarbonate diffuser of high impact strength (equal wall thickness: 2,5mm)
 - highly resistant foamed silicone gasket of dimensional stability that stands for a permanently safe tightness against water and dust
- **reliable, fail-safe and long-life thanks to a special ex-protected ECG with high grade quality features:**
 - "end-of-life switching-off system" i.e. at the end of its life a fluorescent tube is safely switched off (acc. to the latest standards IEC 60079-7 with 2 safety circuits test 1 and test 2)
 - in compliance with the requirements of overvoltage category III (standard = overvoltage category II)
 - widened interference suppression up to 300MHz (standard = 30MHz)
 - thanks to a special quartz sand encapsulation of the ballast inside an aluminium housing the operating temperatures are extremely favourable and consequently a long life time of the control gear (about 100.000 hours) is guaranteed with a low failure rate
- **excellent design allowing an easy and fast mounting/maintenance of the luminaire with an incorporated safety**
 - central locking system with hinged diffuser allowing an easy/fast lamp replacement
 - easily accessible connection chamber behind the hinged reflector
 - isolating switch with optical indicator showing its actual position
- **wide range of application and flexibility at most different environmental conditions**
 - certification for installation in gas and dust atmospheres (zones 1 and 21)
 - wide range of admissible ambient temperature from -20°C to +55/60°C
 - suitable as emergency light fitting connected to group or central battery systems by direct voltage detection and switching over to a 1 lamp operation (series e840... ZB)
 - classical bilateral through wiring system or looping system on one side of the housing
- **excellent light distribution and glare limitation thanks to a light technically optimized prismatic diffuser**

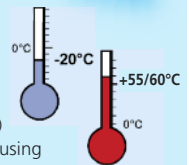


Photo: BASF

e840...



II 2 G Ex d e q IIC
T4 Gb

II 2 D Ex t IIIC
T80°C Db

IP66



EC-Type Examination Certificate:

PTB 07 **ATEX** 2040

PTB 09 **ATEX** 2031, 2039

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

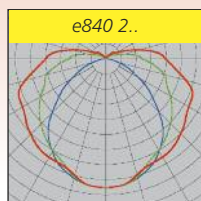
II 2 G Ex d e q IIC T4 (Zone 1)

II 2 D Ex t IIIC T80°C IP66/64¹⁾ (Zone 21)

Ignition protection: e (increased safety)

Rated voltage: 220-240V AC/DC,

Frequency: 0 or 50-60Hz



Type	Article no.	Temp. class	Lamps/ Watt	weight appr.kg ²⁾
e840 118	84000 0001	T4	60°C 1 x T26/18W	5,3
e840 218	84000 0002	T4	60°C 2 x T26/18W	5,4
e840 136	84000 0003	T4	60°C 1 x T26/36W	7,5
e840 236	84000 0004	T4	55°C 2 x T26/36W	7,6
e840 158	84000 0005	T4	60°C 1 x T26/58W	9,2
e840 258	84000 0006	T4	50°C 2 x T26/58W	9,2

1) A climatic breather may reduce the IP rating to IP64 (depending on the orientation of the breather)

2) Weights without packing material

e840... ZB



II 2 G Ex d e q IIC
T4 Gb

II 2 D Ex t IIIC
T80°C Db

IP66



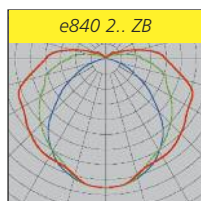
for connection to central or group battery systems

Application:

Emergency light fittings powered by central- or group battery systems.

Design:

Same as type e840 but with DC-detection and change-over to 1-lamp operation (emergency mode).



Type	Article no.	Temp. class	Lamps/ Watt	Weight appr.kg ¹⁾
e840 218 ZB	84000 0303	T4	2 x T26/18 W	5,4
e840 236 ZB	84000 0304	T4	2 x T26/36 W	7,6
e840 258 ZB	84000 0305	T4	2 x T26/58 W	9,2

1) Weights without packing material

e840... PM



II 2 G Ex d e q IIC
T4 Gb

II 2 D Ex t IIIC
T80°C Db

IP66



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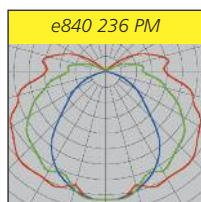
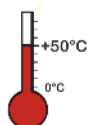
II 2 G Ex d e q IIC T4 (Zone 1)

II 2 D Ex t IIIC T80°C IP66/64¹⁾ (Zone 21)

Ignition protection: e (increased safety)

Rated voltage: 220-240V AC/DC,

Frequency: 0 or 50-60Hz



Type	Article no.	Temp. class	Lamps/ Watt	weight appr.kg ¹⁾
e840 118 PM	84000 0101	T4	1 x T 26/18 W	7,6
e840 218 PM	84000 0102	T4	2 x T 26/18 W	7,7
e840 136 PM	84000 0103	T4	1 x T 26/36 W	12,0
e840 236 PM	84000 0104	T4	2 x T 26/36 W	12,3

1) Weights without packing material



Photo: BAYER



Further Series / Equipment

- separate lamp monitoring device (version e840... T...)
- with 2 individual electronic ballasts for 2 separate mains
- with monitoring device for individual monitoring the light fittings connected to a central or group battery system brand INOTEC. Other brands on demand.
- with breather for pressure compensation
- with 4 cable entries max.
- with different cable glands
- with aluminium mirror-type reflectors (version e840... S)
- for 5-core cable looping system
- with same side in/out wiring
- aluminium mirror-type reflectors – narrow-beam version (SP 84...)
- for humid environments
- without switch (version e840... OS)
- EX version for Zone 2/22 (series nD844...)
- emergency light version (series e841...)

Accessories / Spare Parts

Mounting material

Suspension hooks H8V P



Ceiling brackets 15A P



Distance compensation 84 AA



Pipe clamps RO84...A P



Wall bracket W26/45 P



Further accessories such as carrier rail systems please see installation material in this catalogue.

Type	Article no.			
Spare diffusers until 10/2013		Spare diffusers from 11/2013		
8402	84001 9000	8402 SIL	84001 9003	for 18 W
8404	84001 9001	8404 SIL	84001 9004	for 36 W
8406	84001 9002	8406 SIL	84001 9005	for 58 W
Cable glands				
2537	90117 9000	ex-protected plastic cable gland M25 x 1,5		
2538	90118 9000	ex-protected plastic plug M25 x 1,5		
KLIMASTUTZEN EX	90259 9000	M25 x 1,5		
Lamp holders				
e8901 FH/1	90189 9014	1 pair of lamp holders incl. lamp holder supports (1-lamp version)		
e8901 FH/2	90189 9015	2 pairs of lamp holders incl. lamp holder supports (2-lamp version)		
Aluminium mirror-type reflectors, built in				
SP 84 21		for 1 x 18 W		
SP 84 22		for 2 x 18 W		
SP 84 41		for 1 x 36 W		
SP 84 42		for 2 x 36 W		
SP 84 61		for 1 x 58 W		
SP 84 62		for 2 x 58 W		
Aluminium mirror-type reflectors, for later installation		(Polyester reflector with riveted aluminium reflector) - ambient temp.: +50°C max.		
SP 84 21 NE	84002 0001	for 1 x 18 W		
SP 84 22 NE	84002 0002	for 2 x 18 W		
SP 84 41 NE	84002 0003	for 1 x 36 W		
SP 84 42 NE	84002 0004	for 2 x 36 W		
SP 84 61 NE	84002 0005	for 1 x 58 W		
SP 84 62 NE	84002 0006	for 2 x 58 W		
Mounting material				
H8V P	90001 0002	2 hooks with bolts, stainless steel		
15A P	90000 0002	2 ceiling brackets, hot galvanized steel		
15AV P	90032 0002	2 ceiling brackets, stainless steel		
84 AA	90000 0011	1 pair of brackets, stainless steel, for levelling the various mounting distances between e840 / e152 or e841 / e148		
RO84 112 A P	90037 0004	2 pipe clamps 1 1/2", stainless steel, with support		
RO84 2 A P	90038 0004	2 pipe clamps 2", stainless steel, with support		
W 26 P	26000 0004	2 wall mounting angles		
W 26/30 P	26000 0002	2 wall mounting angles 30°		
W 26/45 P	26000 0003	2 wall mounting angles 45°		