

Explosion-Protected Light Fittings Series e840...

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.

FEATURES AND BENEFITS:

- 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

APPLICATIONS:

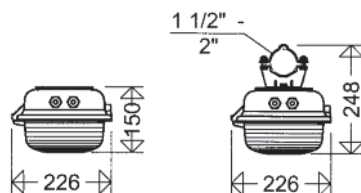
Hazardous areas of zones 1, 21 and 2, 22 as standard illumination or as emergency illumination in combination with external power supply units.



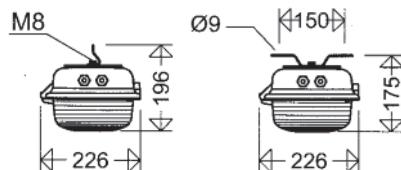
Looping the cable on one side:

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.

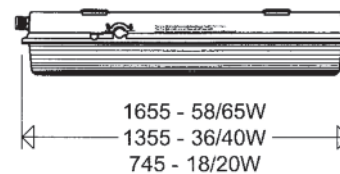
Pipe clamp mounting



Suspension hooks H8V Ceiling brackets 15A



700 - 58/65W
700 - 36/40W
400 - 18/20W



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.

e840...



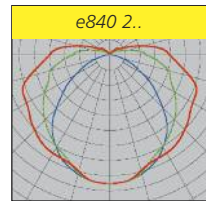
EC-Type Examination Certificate:
 PTB 07 **ATEX** 2040
 PTB 09 **ATEX** 2031, 2039
 Marking:
 II 2 G Ex d e q IIC T4 (Zone 1)
 II 2 D Ex tb IIIC T80°C Db (Zone 21)
 Ignition protection: e (increased safety)

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



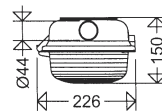
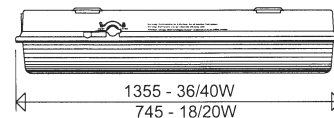
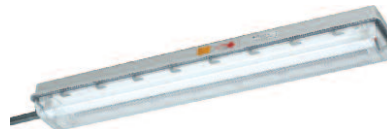
Type	Article no.	Temp. class	Lamps/Watt	weight appr.kg ²⁾
e840 118	84000 0001	T4 60°C	1 x T26/18W	5,3
e840 218	84000 0002	T4 60°C	2 x T26/18W	5,4
e840 136	84000 0003	T4 60°C	1 x T26/36W	7,5
e840 236	84000 0004	T4 55°C	2 x T26/36W	7,6
e840 158	84000 0005	T4 60°C	1 x T26/58W	9,2
e840 258	84000 0006	T4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



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..)



e840... ZB



for connection to central or group battery systems

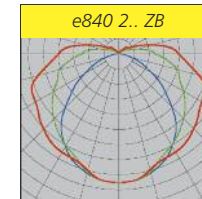
Application:
 Emergency light fittings powered by central- or group battery systems.

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

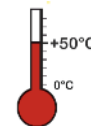


e840... PM



EC-Type Examination Certificate:
 PTB 07 **ATEX** 2040
 PTB 09 **ATEX** 2031, 2039
 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 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

