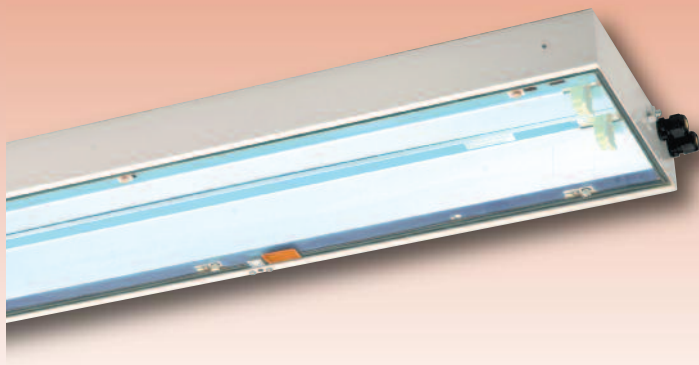


Explosion-Protected Sheet Steel Light Fitting of an extremely low Profile Design for ceiling mounting or recessed mounting Series e191/192 ...



Applications:

Hazardous areas of Zones 1, 21 and 2, 22, e.g. preferably clean rooms, paint-spray lines, paint shops and spray booths.

Design:

Housing: Sheet steel, powder coated in white (RAL 9016), stainless steel upon request.

Glass cover: Impact resistant safety glass, frameless/hinged.

Reflector: Surface refined purest aluminium.

Central locking system: Operated by a 5mm allen key, hinges on the opposite side.

Isolating switch: Switching off all poles when the light fitting is opened. Optical indicator showing the actual position of

the switch.

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

Connection terminals: Standard: 3-pole, up to 2,5mm² (6,0mm² on request).

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

LOOP-IN/OUT possible, for some versions temperature resistant cable is required

Through wiring system: 5 x 2,5mm² through wiring or preparation for 5-pole LOOP-IN/OUT at extra charge

Standard: Facing downwards or forwards

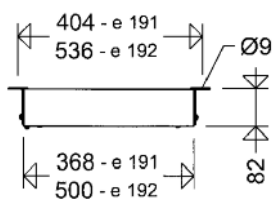
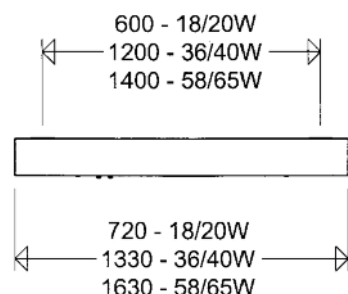
Mounting: Brackets incl. (standard) or separate frame for recessed installation.

Attention:

For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.

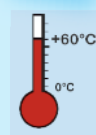
When switched off the light fittings must not be exposed to an a.t. of more than +85°C
Special versions available for extreme conditions (short cycle operation, e.g. rain storage reservoirs or wastewater treatment plants and equivalent) Type E1003 to be selected (please contact us).
Suitable for dry motor vehicle pits only. In case of wall mounting the light fitting must be protected against discharge water.

DB - standardized by Deutsche Bahn AG



Schuch Quality - your advantage

- sturdy design of high chemical resistance for application in rough industrial conditions
- free of paint-wetting impairment substances (silicone-free)
- reliable, fail safe and long-life thanks to a special ex-protected quartz sand encapsulated ECG with high-grade quality features:
 - "end-of-life switching-off system" i.e. at life end the fluorescent tube is safely switched off (worldwide first certification acc. to the latest IEC standards IEC 60079-7 with 2 safety circuits test 1 and test 2)
 - in compliance with the requirements of over voltage category III (standard = over voltage category II)
 - widened interference suppression up to 300MHz (standard = 30MHz)
 - standard: Double channel system with separate lamp monitoring
 - extremely favourable operating temperatures thanks to a special quartz sand encapsulation inside an aluminium housing are a guaranty for a long life time (up to 100.000h) and a low failure rate
- best suitable for mounting and maintenance purpose
 - Original SCHUCH central locking system with hinged safety glass pane for easy mains connection and lamp replacement
- wide range of application and flexibility at most different environmental conditions
 - certification for installation in gas and dust atmospheres (zones 1 or 2 and 21 or 22)
 - for ceiling mount or recessed mount in suspended or insulated ceilings
 - wide range of admissible ambient temperature from -20°C to +60°C (worldwide first certification)
 - for connection to central- or group battery systems with DC-detection and change-over to 1-lamp operation (emergency mode - types e191/192... ZB)
 - separate frame for recessed installation can be installed at a later stage, too (modular concept). A high flexibility of application combined with an economic storing is guaranteed.
 - looping system on one side of the housing; bilateral through wiring system (on request)
 - high light efficiency due to an optimized mirror type reflector made of purest aluminium



e191.. for bi-pin fluorescent tubes, socket G13



II 2 G Ex d e q IIC T4 Gb

II 2 D Ex tb IIIC T80°C Db

IP65



EC-Type Examination Certificate:

IBExU 04 ATEX 1062

TÜV 12 ATEX 097165

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

Admissible ambient temperature:

ceiling and recessed mounting

-20°C up to +60°C (e191...) or

up to +50°C (e192...)

recessed mounting into heat insulated

ceilings (acc. to EN60598)

up to +50°C (e191...) or up to +50°C (e192...)



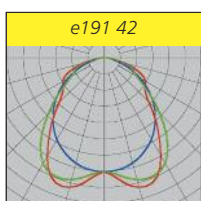
Type	Article no.	Temp. class	Lamps Watt	Weight ca. kg
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narrow housing

e191 21	19100 0001	T4	1 x T 26/18 W	9,8
e191 22	19100 0002	T4	2 x T 26/18 W	9,8
e191 41	19100 0003	T4	1 x T 26/36 W	15,5
e191 42	19100 0004	T4	2 x T 26/36 W	15,5
e191 61	19100 0005	T4	1 x T 26/58 W	18,1
e191 62	19100 0006	T4	2 x T 26/58 W	18,1

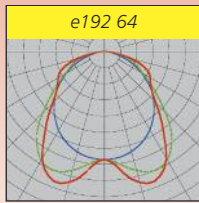
Looping the cable on one side:

All light fittings of series e191/192.. have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.



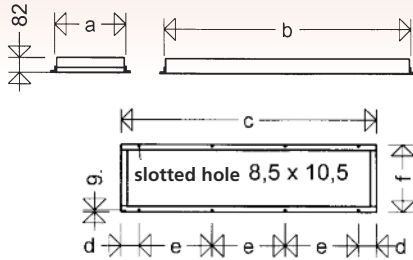


Type	Article no.	Temp. class	Lamps Watt	Weight ca. kg
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wide housing				
e192 23	19100 0201	T4	3 x T 26/18 W	14,0
e192 24	19100 0202	T4	4 x T 26/18 W	14,2
e192 43	19100 0203	T4	3 x T 26/36 W	17,5
e192 44	19100 0204	T4	4 x T 26/36 W	17,5
e192 63	19100 0205	T4	3 x T 26/58 W	26,0
e192 64	19100 0206	T4	4 x T 26/58 W	28,0

Dimensions for recessed mounting



lamps	a	b	c	d	e	f
e 191 2. (18W)	388	740	786	93	300	434
e 191 4. (36W)	388	1350	1396	98	400	434
e 191 6. (58W)	388	1650	1696	48	400	434
e 192 2. (18W)	520	740	786	93	300	566
e 192 4. (36W)	520	1350	1396	98	400	566
e 192 6. (58W)	520	1650	1696	48	400	566

Attention: For recessed installation the length of the cable glands must be considered!

Frame for Recessed Installation

retrofit possible!

Light fittings of series e191/192.. may be equipped with a separate frame also at a later stage, thus allowing recessed ceiling or wall installation. The frame is mounted to the long sides of the housing by means of bolts of size M5 (see drawing).

Type	Article no.	Description
EB 182/18	18091 0004	frame for narrow housing - 1 and 2 x 18W
EB 182/36	18091 0005	frame for narrow housing - 1 and 2 x 36W
EB 182/58	18091 0006	frame for narrow housing - 1 and 2 x 58W
EB 192/18	18091 0013	frame for wide housing - 3 and 4 x 18W
EB 192/36	18091 0014	frame for wide housing - 3 and 4 x 36W
EB 192/58	18091 0015	frame for wide housing - 3 and 4 x 58W

Attention:

Please do always indicate in your inquiry the kind of ceiling into which the light fitting is intended to be recessed. Inserting the cable on the back of the fitting is possible (on request).

Methods of installation:

- mounting to ceiling or into suspended ceilings (standard)
- into clearances in concrete ceilings
- into heat insulated ceilings acc. to EN 60598



Light fittings of series e192 ...



Further Series / Equipment

- with 2 individual ECGs for 2 separate circuits (e191 2.. and e192 2.. version „... OS“ only)
- with monitoring module for individual monitoring the light fitting connected to central or group battery system (except for types e192 2..)
- housing made from stainless steel – painted
- with F-profile for mounting into clean room ceilings
- up to 4 cable entries (also in the base of the housing)
- different glands
- through wiring system up to 5 x 6,0 mm² (except for types e192 2..)
- for 5-core cable looping system
- with DC-detection and change-over to 1- lamp operation (emergency mode - types e191/192 ... ZB) for connection to central- or group battery systems (for type 192 2.. in version „... OS“ only)
- without isolating switch (types e191/192... OS)
- in Zone 2/22 version (series nD191/192)
- in non-ex-protected version (series 191/192...) (see catalogue dust- and waterproof light fittings)

Explosion protected
Light Fittings Zone 1

Accessories / Spare Parts

Type	Article no.	
spare glasses		
182 18-1	18090 9004	spare glass for narrow housing - 1 and 2x18W
182 36-1	18090 9005	spare glass for narrow housing - 1 and 2x36W
182 58-1	18090 9006	spare glass for narrow housing - 1 and 2x58W
192 18-1	19190 9003	spare glass for wide housing - 3 and 4x18W
192 36-1	19190 9004	spare glass for wide housing - 3 and 4x18W
192 58-1	19190 9005	spare glass for wide housing - 3 and 4x18W
Cable entries/cable glands		
2537 G	90117 9006	ex-protected gland of size M25 x 1,5 with nut
2539 G	90119 9001	ex-protected gland of size M25 x 1,5 with nut and with plug
2538 G	90118 9006	ex-protected plug of size M25 x 1,5 with nut
... for recessed installation into concrete clearances or into heat insulated ceilings:		
2537 MS G	90117 9009	ex-protected gland M25 x 1,5 with nut
2594 G	90118 9003	ex-protected plug M25 x 1,5 with nut
Lamp holders		
e8911 P	90189 9011	1 pair of turn-latch lamp holders for fittings manufactured from 09/2009

Through wiring system at extra charge