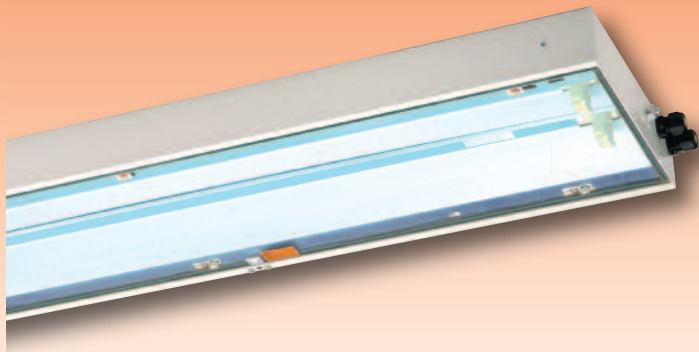


Explosion-proof Sheet Steel Light Fitting of an Extremely Low Profile Design for Ceiling Mounting or Recessed Mounting - Series e191/192 ...



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.

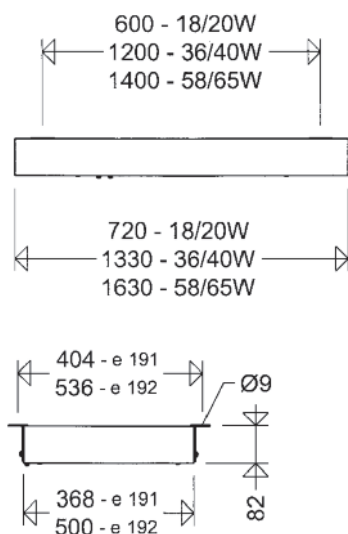
Attention:

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.

NEW

DB - standardized by Deutsche Bahn AG



Schuch Quality - your advantage

- sturdy design of high chemical resistance for application in rough industrial conditions**
 - housing made from powder coated sheet steel or upon request from stainless steel
 - frameless safety glass pane
 - solid central locking system with high grade aluminium hinges
- reliable, fail safe and long-life thanks to a special ex-proof 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 with incorporated safety**
 - Original SCHUCH central locking system with hingeable safety glass pane for easy mains connection and lamp replacement
 - isolating switch with optical indicator showing the actual position of the switch
- 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..



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP65



for bi-pin fluorescent tubes, socket G13

EC-Type Examination Certificate:

IBEXU 04 ATEX 1062

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex tD A21 IP65 T80°C (Zone 21)

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

Ignition protection: e (increased safety)

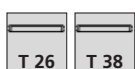
Admissible ambient temperature:

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...)



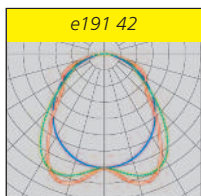
Type	Article no.	Temp. class	Lamps W	Weight ca. kg
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narrow housing

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

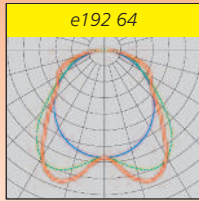
Looping the cable on one side:

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.



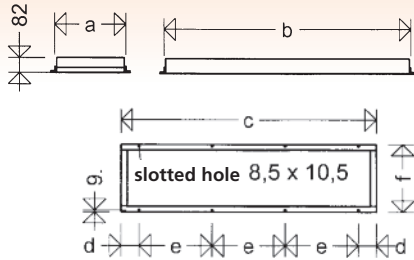
Type	Article no.	Temp. class	Lamps W	Weight ca. kg
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wide housing



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

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 ... mounted in a paint shop



Further Series / Equipment

- 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..)
- with monitoring module for individual monitoring the light fitting connected to central or group battery system (except for types e192 2..)
- 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)
- with 2 individual ECGs for 2 separate circuits (e191 2.. and e192 2.. version „... OS“ only)
- with F-profile for mounting into clean room ceilings
- without isolating switch (types e191/192... OS)
- stainless steelhousing, powder coated
- silicone-free version
- in Zone 2/22 version (series nD191/192)
- in non-ex-proof version (series 191/192...) (see catalogue dust-/waterproof light fittings)

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	90117 9000	ex-proof gland of size M25 x 1,5
2539	90119 9000	ex-proof gland with plug of size M25 x 1,5
2538	90118 9000	ex-proof plug of size M25 x 1,5
... for recessed installation into concrete clearances or into heat insulated ceilings:		
2592	90117 9002	ex-proof gland M25 x 1,5 with gasket, heat resistant
2594	90118 9002	ex-proof plug M25 x 1,5 with gasket, heat resistant
2593	90190 9002	spare ex-proof gasket for 2592 and 2594
Lamp holder		
for fittings manufactured until 2009		
e2413	90189 9000	ex-proof snap-type/plug-socket holder
for fittings manufactured from 2009		
e8911	90189 9001	ex-proof snap-type/plug-socket holder

Through wiring system at extra charge

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