

## Explosion-Protected Light Fitting with Tapered Sheet Steel Body Series e181/182..



### Application:

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

### Design:

**Housing:** Sheet steel, powder coated in light grey.

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

**Reflector:** Hinged; white painted sheet steel; detachable.

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

**Isolating switch:** Switching off all poles when light fitting is opened.

Optical indicator showing the actual posi-

tion of the switch. **Wiring:** Double channel ballast with „end-of-life switching-off system“.

**Connection terminals:** Standard L1+N+PE, up to 6,0mm<sup>2</sup>.

**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 2,5mm<sup>2</sup>

through wiring or preparation for 5-pole LOOP-IN/OUT at extra charge

**Standard:** Facing downwards or forwards

**Mounting:** 2 suspension brackets (H8V P) or ceiling brackets (15A P), at extra charge (see accessories)

### Technical Data:

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

**Admissible ambient temperature:** -20°C to +50°C (1 or 2 lamps)  
-20°C to +40°C (3 or 4 lamps)

### Options:

- with monitoring module for individual monitoring the light fitting connected to a central or group battery system
- housing made from stainless steel, painted
- up to 4 cable entries
- through wiring system up to 5 x 6,0mm<sup>2</sup>
- in preparation for 5-core cable looping system
- for connection to central- or group battery system with DC-detection and change-over to 1-lamp operation emergency mode (ZB)
- without isolating switch (OS)

**DB** standardized by Deutsche Bahn AG

### Attention:

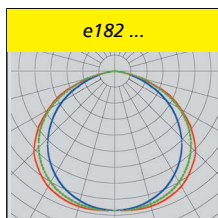
For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.

STAINLESS STEEL  
corrosion resistant

When switched off the light fittings must not be exposed to an a.t. of more than +85°C

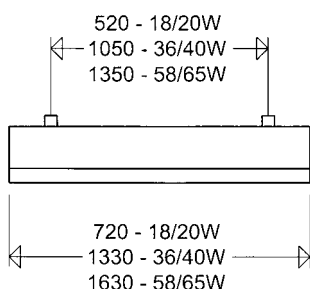
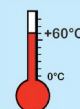
Special versions available for extreme conditions (short cycle operation, e.g. rain storage reservoirs or wastewater treatment plants and equivalent) Type E1003 to be selected (please contact us).

Suitable for dry motor vehicle pits only. In case of wall mounting the light fitting must be protected against discharge water.

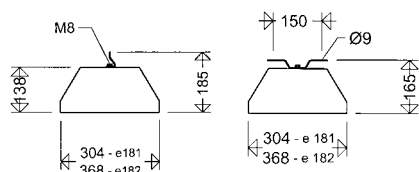


### SCHUCH Quality - your advantage:

- sturdy design of high chemical resistance for application in rough industrial conditions
- 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 the end of its life a fluorescent tube is safely switched off
  - in compliance with the requirements of over voltage category III (standard = over voltage category II)
  - double channel system for separate lamp monitoring
  - extremely favourable operating temperatures thanks to a special quartz sand encapsulation inside an aluminium housing are a guarantee for a long life time (up to 100.000h)
- free of paint-wetting impairment substances (silicone-free)
- wide and admissible range of ambient temperature from -20°C to +60°C (see article table)
- best suitable for mounting and maintenance purpose
  - Original SCHUCH central locking system with hinged safety glass pane for an easy lamp replacement
  - easily accessible connection compartment via hinged reflector
  - separate frame for recessed installation and a swivel arm mounting system can be installed at a later stage, too (frame for recessed installation not suitable for stainless steel version!)



### Suspension brackets H8V P Ceiling brackets 15 A



### Looping the cable on one side:

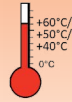
All light fittings of series e181/182.. have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.



Article no.	Type	Temp.-class	Tmax [°C]	Lamps/W	Energy efficiency class	Weight [kg] without packing material
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## e181/182...

T26	Ex	II 2 G Ex d e q IIC T4 Gb	II 2 D Ex tb IIIC T80°C Db	IP65	⊕
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### EC-Type Examination Certificate:

IBExU 02 ATEX 1018  
TÜV 12 ATEX 097164

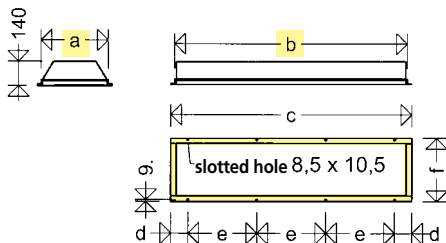
### Marking:

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)

18000 0001	e18121	T4	60	1 x T26/18	A	11,7
18000 0002	e18122	T4	60	2 x T26/18	A	11,7
18000 0009	e18123	T4	60	3 x T26/18	A	13,6
18000 0003	e18141	T4	60	1 x T26/36	A	17,6
18000 0004	e18142	T4	60	2 x T26/36	A	19,0
18000 0010	e18143	T4	55	3 x T26/36	A	22,9
18000 0005	e18161	T4	55	1 x T26/58	A	22,5
18000 0006	e18162	T4	55	2 x T26/58	A	22,5
18000 0011	e18163	T4	50	3 x T26/58	A	24,6
18000 0201	e18223	T4	55	3 x T26/18	A	14,8
18000 0202	e18224	T4	55	4 x T26/18	A	14,8
18000 0203	e18243	T4	60	3 x T26/36	A	22,5
18000 0204	e18244	T4	55	4 x T26/36	A	22,5
18000 0205	e18263	T4	50	3 x T26/58	A	27,0
18000 0206	e18264	T4	40	4 x T26/58	A	27,0



### Dimensions for recessed mounting



Frame	a	b	c	d	e	f
EB 181/18	324	740	786	93	300	370
EB 181/36	324	1350	1396	98	400	370
EB 181/58	324	1650	1696	48	400	370
EB 182/18	388	740	786	93	300	434
EB 182/36	388	1350	1396	98	400	434
EB 182/58	388	1650	1696	48	400	434

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

### Frame for Recessed Installation

**retrofit possible!**

Light fittings of series e181.../e182... may be equipped with a separate frame even at a later stage. Also suitable for clean areas (not suitable for stainless steel

version).

This frame is mounted to the long sides of the housing by means of bolts of size M5 (see drawing).

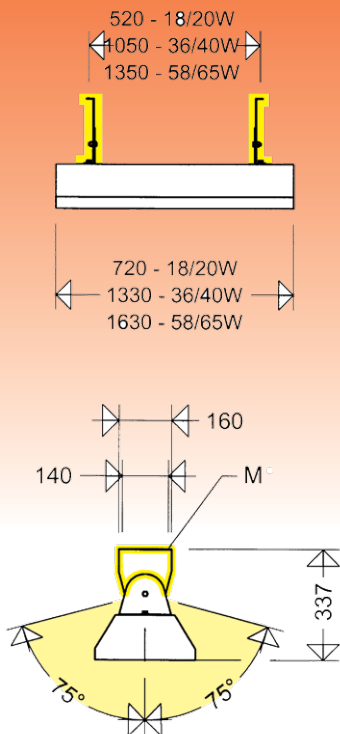
Article no.	Type	
18091 0001	EB 181/18	frame for e181 ... - 1, 2 and 3 x 18W
18091 0002	EB 181/36	frame for e181 ... - 1, 2 and 3 x 36W
18091 0003	EB 181/58	frame for e181 ... - 1, 2 and 3 x 58W
18091 0004	EB 182/18	frame for e182 ... - 3 and 4 x 18W
18091 0005	EB 182/36	frame for e182 ... - 3 and 4 x 36W
18091 0006	EB 182/58	frame for e182 ... - 3 and 4 x 58W

## Frame for Recessed Installation

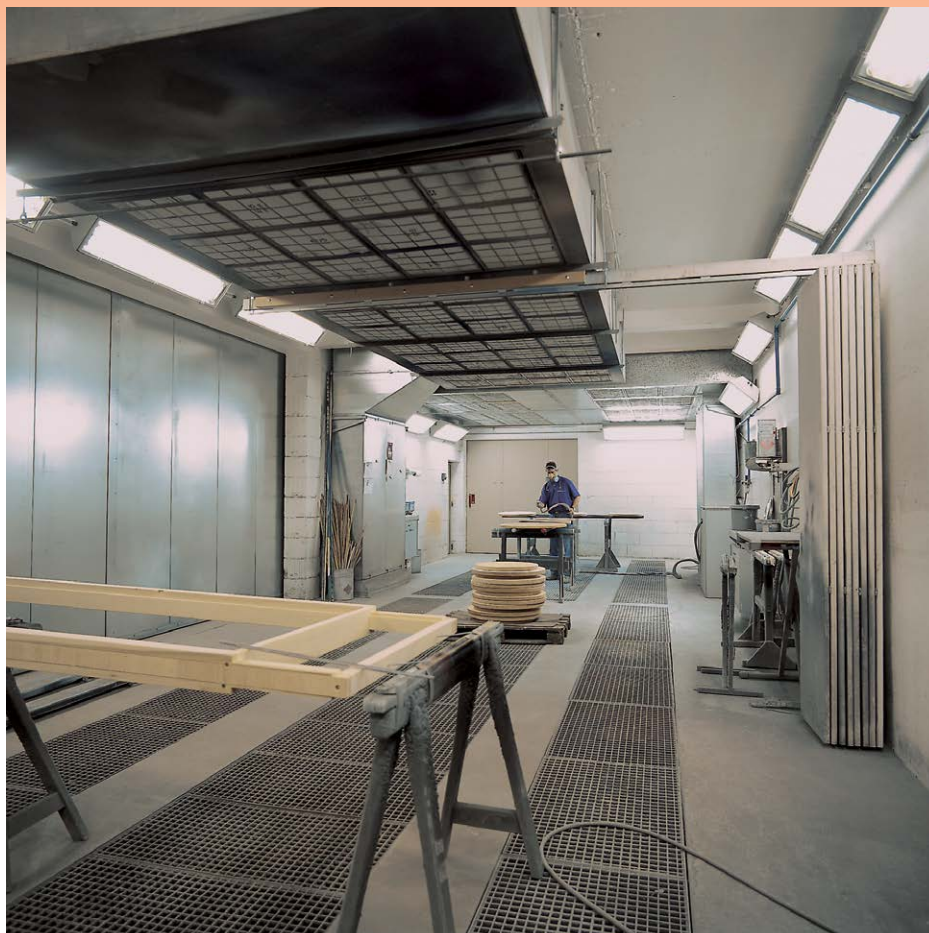
retrofit possible!

Light fittings of series e181../e182.. may be equipped with a swivel arm mounting system at any time even at a later stage.

The swivel arms are fixed to the suspension points at the upper side of the housing. Swivel range:  $\pm 75^\circ$  (see dimensions in diagram).



Article no.	Type	
18092 0001	<b>SWA 181/182</b>	for all types, comprising 2 swivel arms with bolts M8



Explosion protected  
Light Fittings

### Mounting material

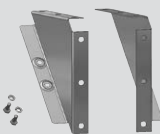
Suspension brackets H8V P



Ceiling brackets 15A P



Wall/ceiling angles WD 45 P



Further accessories as well as carrier rail systems and through wiring systems are available.

## Accessories / Spare Parts

Article No.	Type	
<b>Spare glasses</b>		
18090 9001	<b>181 18-1</b>	spare glass for e181 ... - 1,2 and 3 x 18W
18090 9002	<b>181 36-1</b>	spare glass for e181 ... - 1,2 and 3 x 36W
18090 9003	<b>181 58-1</b>	spare glass for e181 ... - 1,2 and 3 x 58W
18090 9004	<b>182 18-1</b>	spare glass for e182 ... - 3 and 4 x 18W
18090 9005	<b>182 36-1</b>	spare glass for e182 ... - 3 and 4 x 36W
18090 9006	<b>182 58-1</b>	spare glass for e182 ... - 3 and 4 x 58W
<b>Cable entries/cable glands</b>		
90117 9006	<b>2537 G</b>	ex-protected gland of size M25 x 1,5 with nut
90119 9001	<b>2539 G</b>	ex-protected gland of size M25 x 1,5 with nut and plug
90118 9006	<b>2538 G</b>	ex-protected plug of size M25 x 1,5 with nut
<b>Lamp holders</b>		
90189 9011	<b>e8911 P</b>	1 pair of turn-latch lamp holders for fittings manufactured from 09/2009
<b>Mounting material</b>		
90001 0002	<b>H8V P</b>	2 suspension brackets, 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
26000 0005	<b>WD 45 P</b>	2 wall/ceiling angle, steel