

2011

SCHUCH
Light-Fittings
for special application

Explosion - Proof
Dustproof/Waterproof
Industrial
Outdoor
Emergency



History

In 1895 ADOLF SCHUCH started the production of porcelain light fittings for carbon filament incandescent lamps.

The waterproof lampholder - at that time an absolute novelty - contributed to the ADOLF SCHUCH's name becoming world-wide known. Nowadays, the ADOLF SCHUCH company disposes of extremely modern research, development and test facilities as well as of a production equipment that is basing on a very modern technology. The ADOLF SCHUCH production line has, of course, considerably advanced over the past decades. The actual manufacturing programme comprises:

- explosion protected light fittings
- dust- and waterproof light fittings
- emergency light fittings
- street light fittings
- industrial light fittings

In addition to metal and metal alloys, glass fibre reinforced polyester resin is used in large quantities for ADOLF SCHUCH products.

ADOLF SCHUCH is one of the most modern and largest manufacturers of light fittings made from this high-class material. Many millions of light fittings having components that are made from glass fibre reinforced polyester resin have already been supplied.

ADOLF SCHUCH is most experienced in designing luminaires which meet the customers' requirements. National and international rules, standards and recommendations are, of course, observed at any time.



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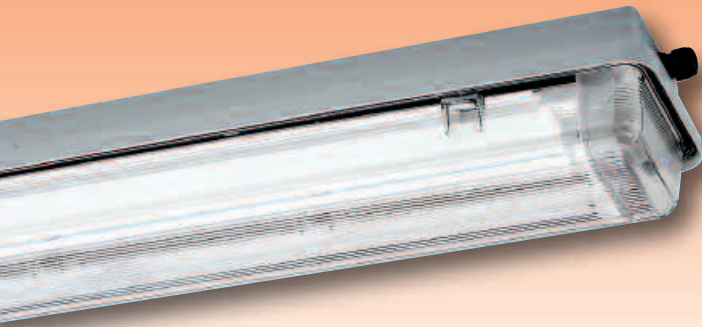
- .....High Pressure Street Lighting
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Explosion-proof Light Fitting Series e152...



Applications:

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

Design:

Housing: Glass fibre reinforced polyester with EPDM gasket.

Cover: Clear polycarbonate with internal prisms, hinged.

Reflector: Glass fibre reinforced polyester, hinged.

Central locking system: Triangular key M6.

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: L1+N+PE; up to 6.0mm².

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

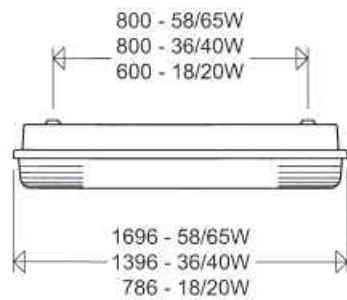
Standard: Facing downwards or forwards

Mounting: Suspension hooks (H8V P) or ceiling brackets (15A P), at extra charge (see accessories)

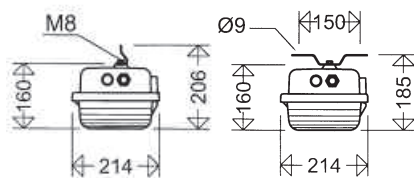
Note:

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 (please contact us).

DB - standardized by Deutsche Bahn AG

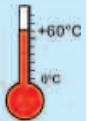


Suspension hooks H8V Ceiling brackets 15A



Schuch Quality - your advantage:

- sturdy design of high chemical resistance for application in rough industrial conditions:**
  - housing from glass fibre reinforced polyester (impact resistance: 20Nm = triple safety)
  - polycarbonate diffuser of high impact strength (equal wall thickness: 2,5mm)
  - solid central locking system made from galvanized steel and high-grade stainless steel hinges
  - highly resistant EPDM gasket of dimensional stability that stands for a permanently safe tightness to water and dust
- 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 the end of its life a 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)
  - double channel system with separate lamp monitoring
  - extremely favourable operating temperatures thanks to a special quartz sand encapsulation of ballast inside an aluminium housing are a guarantee for a long life time (up to 100.000h) and a low failure rate
- best suitable for mounting and maintenance purpose, safety implemented**
  - central locking system with hingeable safety glass pane for easy lamp replacement
  - easily accessible connection compartment via hingeable reflector
  - 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 and 21)
  - wide range of admissible ambient temperature from -20°C to +60°C (worldwide first certification)
  - designed for application of fluo tubes of 26mmØ, 38mmØ and of longlife tubes types
  - looping system on one side of the housing; bilateral through wiring system (on request)
  - shockproof and certified for application in civil defence buildings (RK 1.6 / 16A)
- excellent light distribution and glare limitation thanks to a light technically optimized prismatic diffuser**



e152..



II 2 G Ex deq IIC T4

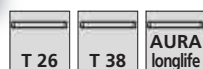
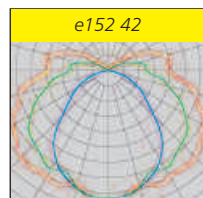
II 2 D Ex td A21 T80°C

IP66



Looping the cable on one side:

All light fittings of series e152 .. have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.



EC-Type Examination Certificate:

PTB 97 ATEX 2223, 2224, 2225

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex td A21 IP66 T80°C (Zone 21)

Ignition protection: e (increased safety)

Admissible ambient temperature:

e152 21/22/41/42: -20°C up to +60°C

e152 61/62: -20°C up to +50°C

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

Type	Article no.	Temp. class	Lamps W	weight ca. kg ¹⁾

with electronic ballast

e152 21	15200 0001	T4	1 x T 26/18 W	6,7
e152 22	15200 0002	T4	2 x T 26/18 W	6,8
e152 41	15200 0003	T4	1 x T 26/36 W	10,0
e152 42	15200 0004	T4	2 x T 26/36 W	10,1
e152 61	15200 0005	T4	1 x T 26/58 W	12,2
e152 62	15200 0006	T4	2 x T 26/58 W	12,4

1) Weights without packing material



Photo: BASF

e152... ZB



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP66



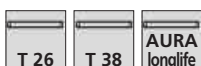
for connection to central or group battery systems

Applications:

Emergency light fittings in hazardous areas of zones 1/21 and 2/22 supplied by central- or group battery systems located in a safe area.

Design:

Same as type e152 but with DC-detection and change-over to 1-lamp operation (emergency mode).



Type	Article no.	Temp. class	Lamps W	Weight appr.kg ¹⁾
with electronic ballast in special version				
e152 22 ZB	15200 0302	T4	2 x T 38/18 W	6,8
e152 42 ZB	15200 0304	T4	2 x T 38/36 W	10,1
e152 62 ZB	15200 0306	T4	2 x T 38/58 W	12,4

1) Weights without packing material



Further Series / Equipment

- with breather for pressure compensation
- up to 4 cable entries max.
- different cable glands
- through wiring system
- with 2 individual electronic ballasts
- with monitoring modul for individual monitoring the light fitting connected to a central or group battery system
- with mirror-type reflector for high rooms
- silicone free
- without isolating switch (series e152 .. OS)
- EX version for Zone 2/22 (series nD152...)
- pole mount fitting (series e152.. PM)
- emergency fitting (series e148...)



Photo: BASF

Mounting material

Suspension hooks H8V P



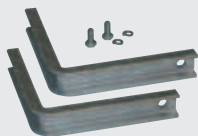
Ceiling brackets 15A P



Pipe clamps RO...A P



Wall brackets W26 P



Wall brackets W26/45 P

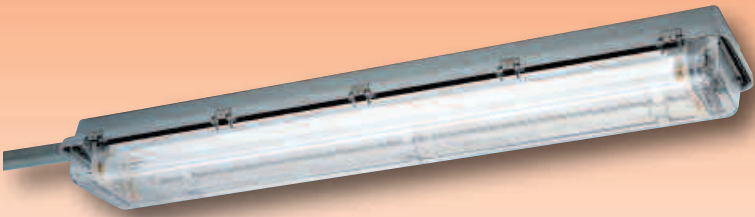


Further accessories such as carrier rail systems please see installation material in this catalogue.

Accessories / Spare Parts

Type	Article no.	
Spare diffusers for series e 152..., e 150...		
1502	15001 9003	spare cover PC for 18 W
1504	15001 9004	spare cover PC for 36 W
1506	15001 9005	spare cover PC for 58 W
Cable glands		
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	ex-proof plastic plug M25 x 1,5
2539	90119 9000	ex-proof plastic cable gland with plug M25 x 1,5
KLIMASTUTZEN EX	90259 9000	breathing gland EX
Lamp holders		
<u>for fittings manufactured until 2009</u>		
e2412/1 Li	90100 9000	1 ex-proof lampholder (left side) without support
e2412/2 Li	90102 9000	2 ex-proof lampholders (left side) without support
e2412/1 Re	90101 9000	1 ex-proof lampholder (right side) without support
e2412/2 Re	90103 9000	2 ex-proof lampholders (right side) without support
<u>NEW for fittings manufactured from 2009</u>		
e8901	90189 9002	
Alu mirror-type reflectors, built in - ambient temp.: +50°C max.		
SP 21		for 1 x 18 W
SP 22		for 2 x 18 W
SP 41		for 1 x 36 W
SP 42		for 2 x 36 W
SP 61		for 1 x 58 W
SP 62		for 2 x 58 W
Alu mirror-type reflectors , for later installation		
(Polyester reflector with riveted aluminium reflector) - ambient temp.: +50°C max.		
SP 21 NE 15	15901 0001	for 1 x 18 W
SP 22 NE 15	15901 0002	for 2 x 18 W
SP 41 NE 15	15901 0003	for 1 x 36 W
SP 42 NE 15	15901 0004	for 2 x 36 W
SP 61 NE 15	15901 0005	for 1 x 58 W
SP 62 NE 15	15901 0006	for 2 x 58 W
Mounting material		
H8V P	90001 0002	2 suspension hooks with bolts, stainless steel
15A P	90000 0002	2 ceiling brackets, hot galvanized steel
15AV P	90032 0002	2 ceiling brackets, stainless steel
RO 112 A P	90037 0003	2 pipe clamps 1 1/2", stainless steel, with support
RO 2 A P	90038 0003	2 pipe clamps 2", stainless steel, with support
W 26 P	26000 0004	2 wall brackets, galvanized steel
W 26/30 P	26000 0002	2 wall brackets 30°, galvanized steel
W 26/45 P	26000 0003	2 wall brackets 45°, galvanized steel
Keys		
2550	25500 0001	angle key M6
J5	90026 0001	universal triangular key set M5,6,8,10,12
J6	90027 0001	universal triangular key set M4,5,6,8,10,12

Explosion-proof Light Fitting Series e152 ...PM



Applications:

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

Design:

Housing: Glass fibre reinforced polyester with EPDM gasket.

Cover: Clear polycarbonate with internal prisms, hinged.

Reflector: Glas fibre reinforced polyester resin, hinged.

Central locking system: Triangular key M6.

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: L1+N+PE; up to 6mm².

Cable entry: 1 gland of size M20 x 1,5 through the pole tube.

Mounting: On poles with outreach and supporting section acc. to

DIN 49 778:

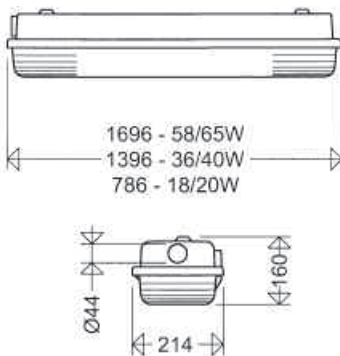
18/20W: 42mm Ø x 250mm

36/40W: 42mm Ø x 400mm

58/60W: 42mm Ø x 400mm length

Schuch Quality - your advantage:

The features of this series of light fittings and of series e152.. are of an equal quality. Only the admissible ambient temperatures are different.



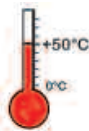
e152.. PM



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP66



EC-Type Examination Certificate:

PTB 97 ATEX 2223, 2224, 2225

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex tD A21 IP66 T80°C (Zone 21)

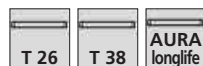
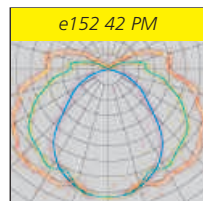
Ignition protection: "e" (increased safety)

Admissible ambient temperatures:

-20°C up to +50°C

Rated voltage:

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



Type

Article no.

Temp. class

Lamps W

Weight appr.kg¹⁾

with electronic ballast

e152 21 PM	15201 0001	T4	1 x T 26/18 W	7,6
e152 22 PM	15201 0002	T4	2 x T 26/18 W	7,7
e152 41 PM	15201 0003	T4	1 x T 26/36 W	12,0
e152 42 PM	15201 0004	T4	2 x T 26/36 W	12,3
e152 61 PM	15201 0005	T4	1 x T 26/58 W	14,8
e152 62 PM	15201 0006	T4	2 x T 26/58 W	15,0

1) Weights without packing material.



Photo: BAYER

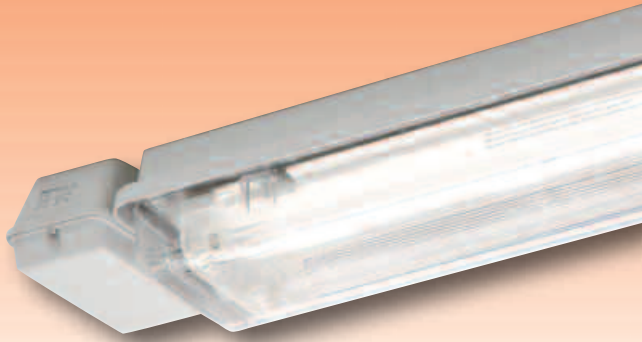
Accessories and spare parts please see series e152...



Further Series / Equipment

– without isolating switch (series e152.. PM OS)

Explosion-proof Emergency Light Fitting with Individual Battery Sets Series e148..



Applications:

Safety illumination in hazardous areas of Zones 1, 2 and 21, 22.

Mechanical design:

Housing and battery box: Glass fibre reinforced polyester with EPDM gasket., battery box mounted to one front side of the main housing.

Cover: Clear polycarbonate with internal prisms, hinged.

Reflector: Glass fibre reinforced polyester, hinged.

Central locking system: Triangular key M6

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

the switch. Separate switch for isolating the battery.

Cable entry: 2 entries M25 x 1,5 (1 of them with plug), both on the same side.

Through wiring system:

Standard: Looping the mains cable at one end of the housing up to 4 x 6mm² (6 cores optional). **Optional:** Internal through wiring system (4 cores min: L1+L1'+N+PE; in case of 3 phases 6 conductors L1, L1', L2, L3, N, PE).

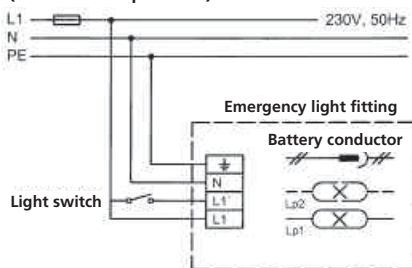
Standard: Facing downwards or forwards

Mounting: Suspension hooks (H8V P) or ceiling brackets (15A P), at extra charge (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 (please contact us).

Wiring diagram 2 lamp version (maintained operation)



Start-up: Connect battery conductor

Taking out of operation: Disconnect battery conductor.

Lamp Lp1: Lighting in mains operation and in case of a mains failure via the batteries.

Lamp Lp2: Lighting in mains operation only or in case of lamp failure of Lp1 in emergency operation (2 lamp version only).

Stand-by wiring: Do not connect L1'

Electrical design:

Microprocessor controlled intelligent emergency electronic device with „end-of-life-switch-off“-system acc. to IEC 61347-2-3. Redundant low discharge protection and restart blocking system.

Multi-function LED: For monitoring the emergency light function and coded indication of the status.

NiCd batteries: 6 V/4 Ah or 6 V/7Ah, maintenance-free located in the battery box; quick battery replacement. Electrical disconnection whenever the polycarbonate cover or the battery box are opened.

Automatic monitoring: Weekly functioning test, annual 2/3 operating period test.

Recharging time: 24h, acc. to EN 60598-2-22.

Mode of operation:

Maintained operation: Switching over to battery operation in case of mains failure. 1 lamp for mains and emergency operation. 2nd lamp for mains operation only. In case 1 lamp fails the second lamp will

take over the emergency operation (2 lamp version only).

Connection terminals: Standard L1 + L1' + N + PE, max. range of connection 6mm²

1. Direct phase L1, (or L2, L3) comes from the circuit fuse and is directly (not via the switch) connected to L1 terminal (or L2, L3) (= charging phase). Consequently if the light fitting is switched off the direct phase is live unless the fuses are open or removed.

2. Switched phase L1' (or L2', L3') goes to connection terminal L1' (or L2', L3') via the switch and must be electrically identical with the direct phase L1 (or L2, L3).

3. Neutral conductor N: In case of 220V between the outer conductors instead of the N conductor an outer conductor is selected e.g. L2 or L3.

4. Earth conductor PE

SCHUCH Quality - your advantage:

In addition to the great advantages incorporated into our standard series e152.. our emergency light version series e148.. offers quite a number of further outstanding features:

- **microprocessor controlled intelligent emergency electronic device with integral ECG**
  - "end-of-life switching-off system" i.e. at the end of its life a 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)
  - multi-function LED with coded indication of the functions, status and potential failures of the electronic device and of the batteries
  - special signal whenever there is an EOL situation (LED red flashing)
  - maintained or stand-by wiring
  - automatic weekly function test
  - automatic annual 2/3 operating period test
  - function and operating period test can be effected manually
  - quick replacement of battery set even in explosive atmosphere
- **highest degree of safety in case of a lamp failure during the emergency light operation**
  - if there is a lamp failure in case of emergency operation the second lamp will automatically take over the emergency operation (2 lamp version only)
- **application within a wide range of temperature of -20°C up to + 55°C (recommended 0°C up to +40°C)**
- **best suitable for continuous row installation**
  - looping the mains cable at one small end of the housing or internal through wiring system in all types

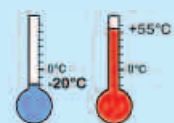
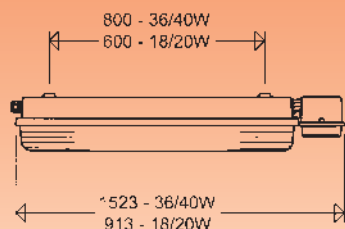
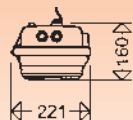
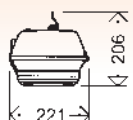
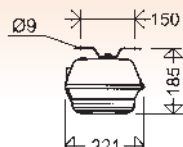
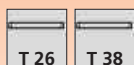
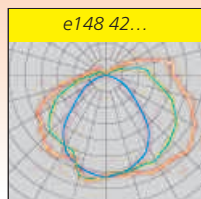


Photo: BASF

Suspension hooks
H8V P

Ceiling brackets 15A P



EC-Type Examination Certificate:

PTB05 ATEX 2066

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex tD A21 IP66 T80°C (Zone 21)

Ignition protection: "e" (increased safety)

Rated voltage: 220-254V, AC, (± 10%), 50/60Hz

Admissible ambient temperature:

-20°C up to +55°C

(nominal range) 0°C up to +40°C

Type	Article no.	Lamps W ¹⁾	Lumin. flux- fact.appr.%	Weight appr.kg ³⁾
1h emergency operation				
e148 21/1/4 ²⁾	14800 0011	1 x T26/18W	70	9,0
e148 22/1/4 ²⁾	14800 0005	2 x T26/18W	70	9,0
e148 41/1/4 ²⁾	14800 0012	1 x T26/36W	35	12,4
e148 42/1/4 ²⁾	14800 0006	2 x T26/36W	35	12,4
3h emergency operation				
e148 21/3/7 ¹⁾	14800 0009	1 x T26/18W	45	9,4
e148 22/3/7 ¹⁾	14800 0003	2 x T26/18W	45	9,4
e148 41/3/7 ¹⁾	14800 0010	1 x T26/36W	30	12,8
e148 42/3/7 ¹⁾	14800 0004	2 x T26/36W	30	12,8
1 h emergency operation, increased light output				
e148 21/1/7 ¹⁾	14800 0007	1 x T26/18W	90	9,4
e148 22/1/7 ¹⁾	14800 0001	2 x T26/18W	90	9,4
e148 41/1/7 ¹⁾	14800 0008	1 x T26/36W	65	12,8
e148 42/1/7 ¹⁾	14800 0002	2 x T26/36W	65	12,8

1) Battery 7Ah

2) Battery 4Ah

3) Weights without packing material



Further series / equipment

- up to 4 cable entries
- for 1.5h emergency operation
- with remote switch connection

- with aluminium mirror-type reflectors)series e148... S)
- silicone free
- with different (luminous flux factors) battery capacity



Photo: BASF

Mounting material

Suspension hooks H8V P



Ceiling brackets 15A P



Self-adhesive pictograms for marking escape routes acc. to VGB 125 and DIN 4844.



590/125/33 W ..../34 W ..../35 W

Sighting distance acc. to EN 1838 and DIN 4844 = 25m.

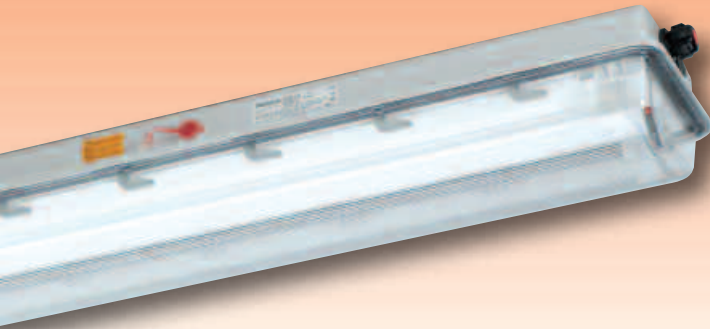
Further accessories as well as carrier rail systems and through wiring systems are available.

Accessories / Spare Parts

Type	Article no.	
Spare rechargeable batteries		
AKKU 2627	90222 9021	batterie 4Ah
AKKU 2628	90222 9022	batterie 7Ah
Spare diffusers for series e148 .../..		
1502	15001 9003	spare cover PC for 18 W
1504	15001 9004	spare cover PC for 36 W
Cable glands		
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	ex-proof plastic cable gland M25 x 1,5 with stopping plug
2539	90119 9000	ex-proof plastic plug M25 x 1,5
Alu mirror-type reflectors, built in		
SP 21		for 1 x 18 W
SP 22		for 2 x 18 W
SP 41		for 1 x 36 W
SP 42		for 2 x 36 W
Mounting material		
H8V P	90001 0002	2 suspension hooks with bolts, stainless steel
15A P	90000 0002	2 ceiling brackets, hot galvanized steel
15AV P	90032 0002	2 ceiling brackets, stainless steel
Self-adhesive standard pictograms		
590/125/33 W	59000 0004	for Type e148 21 or e148 22
590/125/34 W	59000 0005	for Type e148 21 or e148 22
590/125/35 W	59000 0006	for Type e148 21 or e148 22

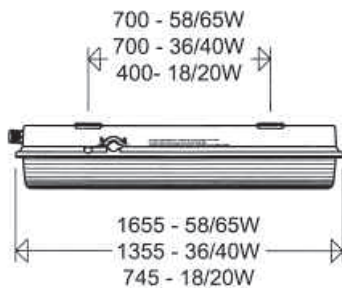
NEW

Explosion-proof Light Fittings Series e840...

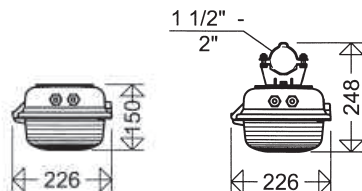


Note:

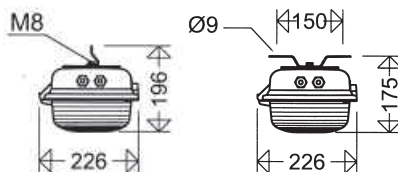
Special versions available for extreme conditions (short cycle operation, e.g. rain storage reservoirs or wastewater treatment plants and equivalent) Type E1003 to be selected.



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.

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: EPDM

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. Optical indicator showing the actual position of the switch.

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

Connection terminals: Standard: L1+N+PE; up to 6.0 mm².

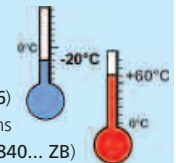
Cable entries: 3 entries M25 x 1,5 (2 glands, 1 of them with plug and 1 screw plug).

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.

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 EPDM 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-proof 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 +60°C (type e840 136)
  - 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)
  - designed for application of fluo tubes of 26mm Ø or 38mm Ø
  - 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**



e840...



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP66



for bi-pin fluorescent tubes, socket G13

EC-Type Examination Certificate:

PTB 07 ATEX 2031, 2039, 2040

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Rated voltage: 220-240V AC/DC,

Frequency: 0 or 50-60Hz

Marking:

II 2 G Ex deq IIC T4

(Zone 1)

II 2 D Ex tD A21 T80°C IP66/64¹⁾ (Zone 21)

Ignition protection: e (increased safety)

Admissible ambient temperature:

-20°C up to +55°C, (e840 136 up to +60°C)



Type	Article no.	Temp. class	Lamps W	weight appr.kg ²⁾

with electronic ballast (EVG)

e840 118	84000 0001	T4	1 x T26/18W	5,3
e840 218	84000 0002	T4	2 x T26/18W	5,4
e840 136	84000 0003	T4	1 x T26/36W	7,5
e840 236	84000 0004	T4	2 x T26/36W	7,6
e840 158	84000 0005	T4	1 x T26/58W	9,2
e840 258	84000 0006	T4	2 x T26/58W	9,2

1) IP rating: IP 64 or 66 depending on orientation of breather

2) Weights without packing material

e840... ZB



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP66



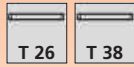
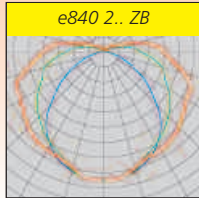
for connection to central or group battery systems

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 W	Weight appr.kg ¹⁾
e840 218 ZB	84000 0303	T4	2 x T38/18 W	5,4
e840 236 ZB	84000 0304	T4	2 x T38/36 W	7,6
e840 258 ZB	84000 0305	T4	2 x T38/58 W	9,2

1) Weights without packing material



Further Series / Equipment

- with breather for pressure compensation
- with 4 cable entries max.
- with different cable glands
- with same side in/out wiring
- with 2 individual electronic ballasts for 2 separate mains
- without switch (series e840... OS)
- with monitoring device for individual monitoring the light fittings connected to a central or group battery system
- with aluminium mirror-type reflectors (series e840... S)
- EX version for Zone 2/22 (series nD844...)
- silicone free
- emergency light version (series e841..)

Explosion-proof
Light Fittings Zone 1/21

Mounting material

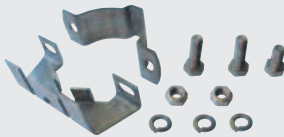
Suspension hooks H8V P



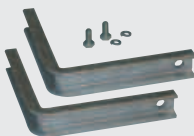
Ceiling brackets 15A P



Pipe clamps RO84...A P



Wall brackets W26 P



Wall bracket W26/45 P



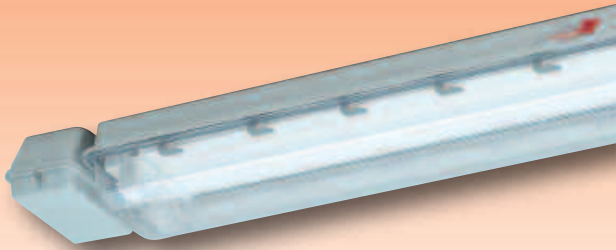
Further accessories such as carrier rail systems please see installation material in this catalogue.

Accessories / Spare Parts

Type	Article no.	
Spare diffusers for series e840...		
8402	84001 9000	spare cover PC for 18 W
8404	84001 9001	spare cover PC for 36 W
8406	84001 9002	spare cover PC for 58 W
Cable glands		
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	ex-proof plastic plug M25 x 1,5
KLIMASTUTZEN EX	90259 9000	M25 x 1,5
Lamp holders		
e8901	90189 9002	ex-proof lampholder without support
Alu 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
Alu 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
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, galvanized steel
W 26/30 P	26000 0002	2 wall mounting angles 30°, galvanized steel
W 26/45 P	26000 0003	2 wall mounting angles 45°, galvanized steel

NEW

Explosion-proof Emergency Light Fittings with individual battery sets Series e841..././.



Application:

Safety illumination in hazardous areas of Zones 1, 2 and 21, 22.

Mechanical design:

Housing and battery box: Glass fibre reinforced polyester, battery box mounted to one front side of the main housing.

Cover: Clear polycarbonate with internal prisms, hinged. EPDM gasket.

Reflector: Glass fibre reinforced polyester, hinged.

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

Isolating switch: 2 switches switching off all poles when the light fitting is opened.

Forced optical indicator showing the actual position of the switch. Separate switch for isolating the battery.

Cable entry: 2 entries M25 x 1,5 (1 of which plugged) both on the same side.

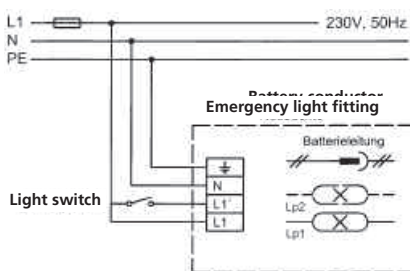
Through wiring system:

Standard: Possibility for looping the mains cable up to 4 x 6mm² (6 cores optional).

Optional: Internal through wiring system (4 cores min: L1+L1'+N+PE; or 6 conductors: L1, L1', L2, L3, N, PE).

Mounting: 2 suspension hooks (H8V P) or ceiling brackets (15A P) - see accessories/spare parts.

Wiring diagram (maintained operation)



Start-up: Connect battery conductor

Taking out of operation: Disconnect battery conductor.

Lamp Lp1: Lighting in mains operation and in case of a mains failure via the batteries.

Lamp Lp2: Lighting in mains operation only or in case of lamp failure of Lp1 in emergency operation (2 lamp version only).

Stand-by wiring: Do not connect L1'

Electrical design:

Microprocessor controlled intelligent emergency electronic device with „end-of-life-switch-off“-system acc. to IEC 61347-2-3. Redundant low discharge protection and restart blocking system. Multi-function LED: For monitoring the emergency light function and coded indication of the status.

NiCd batteries: 6 V/4 Ah or 6 V/7Ah, maintenance-free located in the battery box; quick battery replacement. Electrical disconnection whenever the polycarbonate cover or the battery box are opened.

Automatic monitoring: Weekly functioning test, annual 2/3 operating period test.

Recharging time: 24h, acc. to EN 60598-2-22.

Mode of operation:

Maintained operation: Switching over to battery operation in case of mains failure. 1 lamp for mains and emergency operation. 2nd lamp for mains operation only. In case 1 lamp fails the second lamp will

take over the emergency operation (2 lamp version only).

Connection terminals: Standard L1 + L1' + N + PE, max. range of connection 6mm²

1. Direct phase L1, (or L2, L3) comes from the circuit fuse and is directly (not via the switch) connected to L1 terminal (or L2, L3) (= charging phase). Consequently if the light fitting is switched off the direct phase is live unless the fuses are open or removed.

2. Switched phase L1' (or L2', L3') goes to connection terminal L1' (or L2', L3') via the switch and must be electrically identical with the direct phase L1 (or L2, L3).

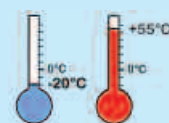
3. Neutral conductor N: In case of 220V between the outer conductors instead of the N conductor an outer conductor is selected e.g. L2 or L3.

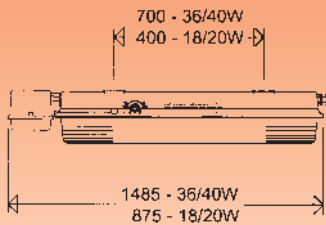
4. Earth conductor PE

SCHUCH Quality - your advantage:

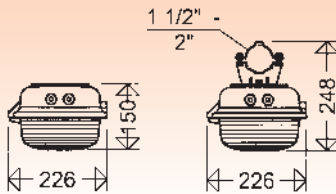
In addition to the great advantages incorporated into our standard series e840.. our emergency light version series e841.. offers quite a number of further outstanding features:

- microprocessor controlled intelligent emergency electronic device with integral ECG
  - "end-of-life switching-off system" basing on the latest standards IEC 60079-7
  - multi-function LED with coded indication of the functions, status and potential failures of the electronic device and of the batteries
  - special signal whenever there is an EOL situation (LED red flashing)
  - maintained or stand-by wiring
  - automatic weekly function test
  - automatic annual operating period test
  - function and operating period test can be effected manually
  - quick replacement of battery set even in explosive atmosphere
- highest degree of safety in case of a lamp failure during the emergency light operation
  - If there is a lamp failure in case of emergency operation the second lamp will automatically take over the emergency operation (2 lamp version only)
- application within a wide range of temperature of
  - 20°C up to +55°C (recommended 0°C up to +40°C)
- best suitable for continuous row installation
  - Looping the mains cable at one small end of the housing or internal through wiring system in all types
- central locking system with detachable cover for easy lamp replacement

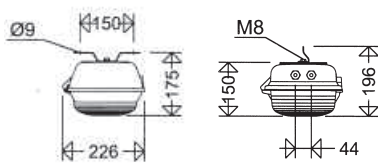




Pipe clamp mounting



Suspension hooks H8V Ceiling brackets 15A

**EC-Type Examination Certificate:**

PTB 07 ATEX 2031, 2040

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex tD A21 T80°C IP66 (Zone 21)

Ignition protection: „e“ (increased safety)

Rated voltage: 220-254V, AC, ± 10%,

50-60Hz

Admissible ambient temperature:

-20°C bis +55°C

(nominal range: 0°C bis +40°C)

Type	Article no.	Lamps W ¹⁾	Lumin. flux-fact.appr.%	Weight appr.kg
1h emergency operation				
e841 118/1/4 ²⁾	84100 0001	1 x T26/18W	18	7,6
e841 218/1/4 ²⁾	84100 0002	2 x T26/18W	18	7,7
e841 136/1/4 ²⁾	84100 0003	1 x T26/36W	35	9,5
e841 236/1/4 ²⁾	84100 0004	2 x T26/36W	35	9,6
3h emergency operation				
e841 118/3/7 ¹⁾	84100 0005	1 x T26/18W	18	8,0
e841 218/3/7 ¹⁾	84100 0006	2 x T26/18W	18	8,1
e841 136/3/7 ¹⁾	84100 0007	1 x T26/36W	30	9,9
e841 236/3/7 ¹⁾	84100 0008	2 x T26/36W	30	10,0
1h emergency operation, increased light output				
e841 118/1/7 ¹⁾	84100 0009	1 x T26/18W	18	8,0
e841 218/1/7 ¹⁾	84100 0010	2 x T26/18W	18	8,1
e841 136/1/7 ¹⁾	84100 0011	1 x T26/36W	65	9,9
e841 236/1/7 ¹⁾	84100 0012	2 x T26/36W	65	10,0

1) Also for fluorescent tubes of 38mmØ (T38/..)

2) Weights without packing material

3) Battery 7Ah

4) Battery 4Ah

Further Series / Equipment

- up to 4 cable entries
- for 1.5h emergency operation
- with remote switch connection

- with aluminium mirror-type reflectors (series e841... S) for high installations
- with different luminous flux factors (battery capacity)

Accessories / Spare Parts

Type	Article no.	
Spare rechargeable batteries		
AKKU 2627 4Ah	90222 9021	
AKKU 2628 7Ah	90222 9022	
Spare diffusers for series e840...		
8402	84001 9000	spare cover PC for 18 W
8404	84001 9001	spare cover PC for 36 W
Cable glands		
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	ex-proof plastic plug M25 x 1,5
Lamp holders		
e8901	90189 9002	ex-proof lampholder without support
Alu 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
Alu 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
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
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, galvanized steel
W 26/30 P	26000 0002	2 wall mounting angles 30°, galvanized steel
W 26/45 P	26000 0003	2 wall mounting angles 45°, galvanized steel
Self-adhesive standard legends		
590/125/33 W	59000 0004	for Type e841 118/218
590/125/34 W	59000 0005	for Type e841 118/218
590/125/35 W	59000 0006	for Type e841 118/218

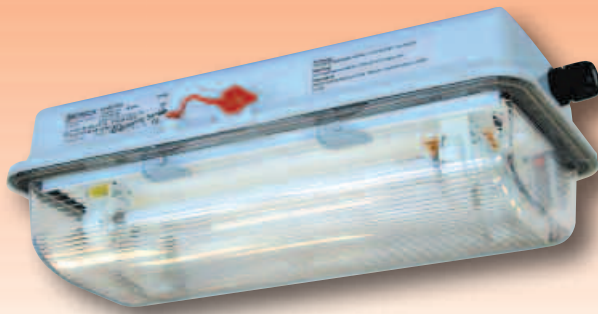
Self-adhesive legends for marking escape routes acc. to VGB 125 and DIN 4844.

590/125/33 W   590/125/34 W   590/125/35 W
Sighting distance acc. to EN 1838 and DIN 4844 = 25m.

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

NEW

Small Explosion-Protected Light Fittings Series e845...



Application:

Hazardous areas in Zones 1, 21 and 2, 22 as standard illumination or as emergency illumination with self-contained, group or central battery units.

Design:

Housing: Glass fibre reinforced polyester resin.

Diffuser: Clear polycarbonate with internal prisms, hinged and detachable.

Gasket: EPDM

Reflector: White painted sheet steel, hinged and detachable.

Central locking system: Operated by a hexagonal box spanner 13mm.

Disconnect switch: Isolation of all poles when the light fitting is opened. Optical indicator shows the actual position of the switch.

Circuit: Twin-channel electronic ballast with "end-of life" protection.

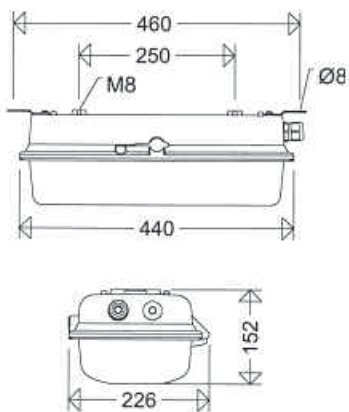
Connection terminals: Standard: L1+N+PE; up to 6.0 mm².

Cable entries: 2 entries M25 x 1.5 (2 cable glands, 1 with blanking plug enclosed).
Through wiring: Standard with looping the mains cable at one end 3 x 2.5mm² (5 wire optional).

Mounting: Side fixing brackets allow direct mounting on to walls or ceilings.

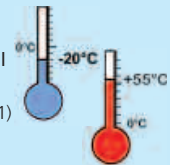
Note:

Special versions available for special application requirements such as in humid atmospheres, wastewater and rainwater reservoirs, water treatment plants, etc.



Schuch Quality - your advantage:

- robust design of high chemical resistance for application in rough industrial conditions:
  - glass fibre reinforced polyester housing
  - impact resistant polycarbonate diffuser (uniform wall thickness: 2,5mm)
  - extremely resistant, dimensionally stable EPDM gasket which guarantees for a permanently safe ingress protection
- reliable, fail-safe and long-life thanks to a special quartz sand encapsulated (Exq) explosion-protected EVG with high grade quality features:
  - "end-of-life protection" 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)
  - standard twin-channel with separate lamp monitoring
- easy installation and maintenance with built-in safety
  - Original SCHUCH central locking system with hinged diffuser for easy lamp replacement
  - easily accessible connection chamber behind the hinged reflector
  - disconnect switch with optical indicator showing its actual position
- wide range of applications and flexibility for a variety of environmental conditions
  - certified for use in potentially explosive gas and dust atmospheres (zones 1 and 21)
  - permissible ambient temperature range from -20°C to +55°C
  - single-end IN-OUT wiring
- excellent light distribution and glare limitation thanks to an optimized prismatic diffuser



e845...



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP66



EC-Type Examination Certificate:

TÜV 09 ATEX 7795

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

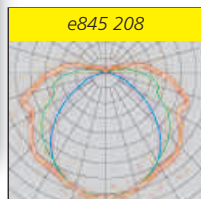
II 2 D Ex tD A21 IP66 1) T80°C (Zone 21)

Type of protection: e (increased safety)

Permissible ambient temperature:

-20°C bis +55°C

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



Type	Article no.	Temp. class	Lamps W	weight appr.kg ²⁾

e845 108	84500 0001	T4	1 x T16/8W	3,9
e845 208	84500 0002	T4	2 x T16/8W	4,0

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

2) Weights without packing material.

Cable looping at one end:

All light fittings of series e845... have 2 cable entries M25 x 2.5 on the connection end of the housing, thus allowing a more economical cable looping at one end instead of the classical through wiring system (surcharge for 5-pole version).



Further Series / Equipment

- with alternative cable glands
- with monitoring module for individual monitoring of the light fittings connected to group or central battery systems
- without disconnect (type e845...05)
- emergency light version (series e846...)
- version for Zone 2/22 (series nD849...)
- version for Zone 2/22 emergency light version (series nD848...)
- non-hazardous version



Foto: BASF

Explosion-proof
Light Fittings Zone 1/21

Mounting accessories

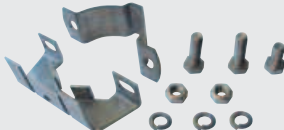
Suspension bracket H8V P



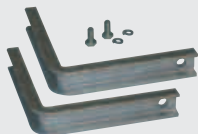
Ceiling bracket 15A P



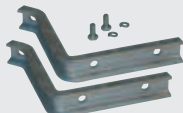
Pipe clamp RO84... A



Wall bracket W26 P



Wall bracket W26/45 P



Self-adhesive pictograms for identification of escape routes acc. to VGB 125 and DIN 4844.



Recognition distance acc. to EN 1838 and DIN 4844 = 25m.

Accessories / Spare Parts

Type	Article no.	
Spare diffuser		
845	84501 9001	Spare diffuser PC
Cable entries / Glands / Breathers		
2537	90117 9000	Ex- plastic cable gland M20 x 1.5
2538	90118 9000	Ex- plastic cable gland M25 x 1.5
KLIMASTUTZEN EX	90259 9000	M25 x 1,5 breather
Lamp holder		
e8912	90189 9003	Ex- proof turn-latch lamp holder
Mounting accessories		
H8V P	90001 0002	2 suspension bracket with screws M8, stainless steel
15A P	90000 0002	2 ceiling brackets, hot galvanized steel
15AV P	90032 0002	2 ceiling brackets, stainless steel
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 brackets, galvanized steel
W 26/30 P	26000 0002	2 wall brackets 30°, galvanized steel
W 26/45 P	26000 0003	2 wall brackets 45°, galvanized steel
Self-adhesive pictogram		
121/33 W	12112 0006	Emergency EXIT, left
121/34 W	12112 0007	Emergency EXIT, right
121/35 W	12112 0008	Emergency EXIT, down

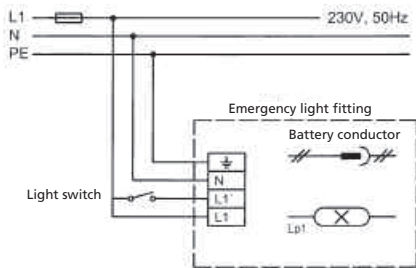
NEW

Small Explosion-Protected Emergency Light Fittings with Self-Contained Battery Unit Series e846 ..././..



Note:

Special versions available for special application requirements such as in humid atmospheres, wastewater and rainwater reservoirs, water treatment plants, etc.



Commissioning: connect battery conductor

Decommissioning: disconnect battery conductor

Lamp: operates in mains mode and on mains failure in emergency mode

Stand-by mode: L1¹ not connected

Application:

Hazardous areas in Zones 1, 2 and 21, 22 as safety illumination and as information or escape route lighting.

Mechanical design:

Housing and battery box: Glass fibre reinforced polyester.

Diffuser: Clear polycarbonate with internal prisms, hinged and detachable.

Gasket: EPDM

Reflector: White painted sheet steel, hinged and removable.

Disconnect switches: 2 switches for isolation of all poles when the light fitting is opened. Optical indicator shows the ac-

tual position of the switch.

Circuit: Twin channel electronic ballast with "end-of life" protection.

Connection terminals: Standard: L1+N+PE; up to 2.5 mm².

Cable entries: 2 entries M25 x 1.5 (2 cable glands, 1 with blanking plug, enclosed).

Through wiring: Standard with looping of mains cable at one end 4 x 2.5mm² (6-wire optional).

Mounting: Side fixing brackets allow direct mounting on to walls or ceilings.

Electrical design:

Microprocessor-controlled intelligent emergency lighting electronics with electronic ballast (EVG) with "end-of-life" protection acc. to IEC 61347-2-3. Redundant deep discharge protection and restart block. Multi-function LED for monitoring the emergency function and coded indication of status.

NiCd batteries: 6 V/2.5 Ah or 6 V/1.5 Ah, maintenance-free, located in the battery box, easy replacement. Electrical disconnection whenever the polycarbonate cover is opened.

Automatic monitoring: Weekly function test, and annual 2/3 operating-time test. Test results shown by LEDs on the fitting.

Recharging time: (Electronic deep discharge protection) 24h, acc. to EN 60598-2-22.

Mode of operation:

Maintained mode: Switches over to bat-

tery operation in the event of a mains failure.

Connection terminals: Standard: L1, L11, N, PE; up to 2.5 mm².

1. Direct phase L1, (or L2, L3) comes from the circuit fuse and is directly (not via the switch) connected to L1 terminal (or L2, L3) (= charging phase). Consequently, if the light fitting is switched off, the direct phase is live unless the fuses are open or removed.

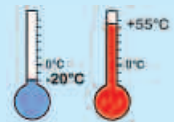
2. Switched phase L1' (or L2', L3') goes to connection terminal L11 (or L21, L31) via the switch and must be electrically identical to the direct phase L1 (or L2, L3).

3. Neutral conductor N: In the case of networks with 220V between phases, a 2nd phase, e.g. L2 or L3, is selected instead of the N conductor.

4. Earth conductor PE

SCHUCH Quality - your advantage:

- intelligent microprocessor-controlled emergency electronics with integral electronic ballast (EVG).
  - "end-of-life protection" (acc. to the latest standards IEC 60079-7 with 2 safety circuits test 1 and test 2)
  - multi-function LED with coded indication of function, status and possible failures of the electronics and batteries
  - special signal whenever there is an EOL situation (flashing red LED)
  - maintained or stand-by mode wiring
  - weekly automatic function test
  - annual automatic operating-time test
  - manual function and operating-time tests possible at anytime
  - easy battery replacement even in the hazardous area
- for use in a wide range of ambient temperatures -20°C up to + 55°C
  - with intelligent electronic charging of the battery even at -20°C

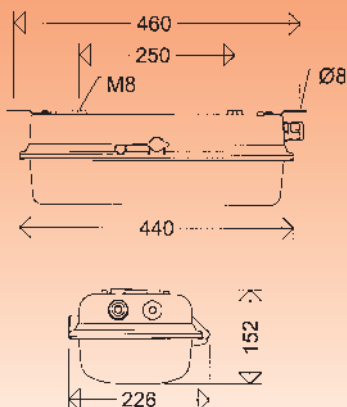


Looping the cable on one end:

All light fittings of series e846... have 2 cable entries M25 x 2.5 on the connection end of the housing, thus allowing a more economical cable looping at one end instead of the classical through wiring system (surcharge for 6-pole version).



Foto: BASF



Mounting accessories

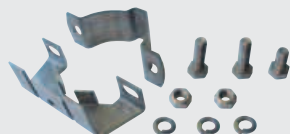
Suspension bracket H8V P



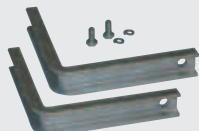
Ceiling bracket 15A P



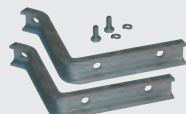
Pipe clamp RO84... A



Wall bracket W26 P



Wall bracket W26/45 P



Self-adhesive pictograms for identification of escape routes acc. to VGB 125 and DIN 4844.



121/33 W



..134



..135

Recognition distance acc. to EN 1838 and DIN 4844 = 25m.

e846 .../.../...



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP66



EC-Type Examination Certificate:

TÜV 09 ATEX 7795

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex tD A21 IP66 ¹⁾ T80°C (Zone 21)

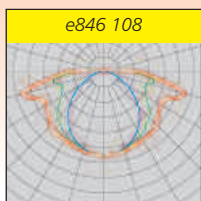
Type of protection: e (increased safety)

Rated voltage: 220-254V, AC, ± 10%, 50-60Hz

Permissible ambient temperature:

-20°C up to +55°C

Nominal range 0°C up to +40°C



Type	Article no.	Lamps W ¹⁾	Lumin. flux-fact. ca. %	Weight ca. kg ²⁾
1h battery-mode operation				
e846 108/1/1,5	84600 0001	1 x T16/8W	55	4,9
e846 108/1/2,5	84600 0002	1 x T16/8W	85	5,1
3h battery-mode operation				
e846 108/3/2,5	84600 0003	1 x T16/8W	30	5,1

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

– with 1.5h battery-mode operation

– with connections for remote switch

Accessories / Spare Parts

Type	Article no.	
Spare batteries		
AKKU 8020	90222 9023	spare battery 1.5Ah
AKKU 8021	90222 9024	spare battery 2.5Ah
Spare diffuser		
845	84501 9001	spare diffuser PC for 18W
Cable entries / Glands / Breathers		
2537	90117 9000	ex- plastic cable gland M25 x 1.5
2538	90118 9000	ex- plastic threaded blanking plug M25 x 1.5
KLIMASTUTZEN EX	90259 9000	M25 x 1,5 breather
Lamp holder		
e8912	90189 9003	ex- turn-latch lamp holder
Mounting accessories		
H8V P	90001 0002	2 suspension bracket with screws M8, stainless steel
15A P	90000 0002	2 ceiling brackets, hot galvanized steel
15AV P	90032 0002	2 ceiling brackets, stainless steel
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 brackets, galvanized steel
W 26/30 P	26000 0002	2 wall brackets 30°, galvanized steel
W 26/45 P	26000 0003	2 wall brackets 45°, galvanized steel
Self-adhesive pictogram		
121/33 W	12112 0006	emergency EXIT, left
121/34 W	12112 0007	emergency EXIT, right
121/35 W	12112 0008	emergency EXIT, down

NEW

Explosion-proof Sheet Steel Light Fitting for Ceiling -, Wall - or Recessed Mounting Series e800...



Applications:

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

Design:

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

Glass pane: Impact resistant safety glass pane, frameless, hinged.

Reflector: White sheet steel, detachable.

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.

Connection terminals: Standard

Connection range: 2,5 mm² max.

Cable entry: Standard: 1 cable gland M25 x 1,5

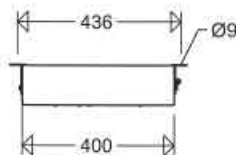
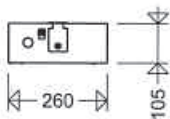
Mounting: Lighting downwards or horizontally.

Mounting brackets are included.

Attention:

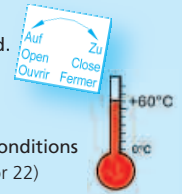
For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.

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



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 internal 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 (certification acc. to the latest standard IEC 60079-7 with 2 safety circuits Test 1 and Test 2)
  - standard: Double channel system with separate lamp monitoring
- best suitable for mounting and maintenance purpose. Safety implemented.
  - Original SCHUCH central locking system with hingeable safety glass pane for easy 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)
  - wide range of admissible ambient temperature from -20°C to +60°C



e800..



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP65



for bi-pin fluorescent tube, socket G5

EC-Type Examination Certificate:

PTB 08 ATEX 2026

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex deq IIC T4 (Zone 1)

II 2 D Ex tD A21 IP65 1) T80°C (Zone 21)

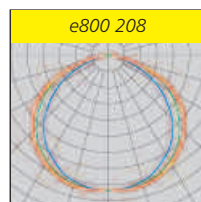
Ignition protection: e (increased safety)

Rated voltage: 220-240V AC/DC,

0 or 50-60Hz

Admissible ambient temperature:

-20°C up to +55°C/+60°C



Type	Article no.	Temp.-class	Lamps W	Weight ca.kg ²⁾
e800 108	80000 0001	T4	1 x T 16/8 W	6,2
e800 208	80000 0002	T4	2 x T 16/8 W	6,3

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

- without isolating switch (e800.. OS)
- with monitoring module in case of connection to a central or group battery system
- with frame for recessed installation
- 2 entries on one small end of the housing for looping the mains cable
- with housing in stainless steel
- with remote switch connection

Accessories / Spare Parts

Type	Article no.	
Spare glass pane		
8100	80009 9001	spare glass pane
Spare cable glands		
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5

NEW

Small Explosion-proof Sheet Steel Emergency Light Fitting with incorporated Battery Set Series e801 108/./..

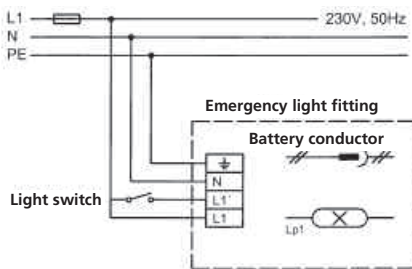


Note:

Ask for stainless steel versions in case of permanent humidity or corrosive atmosphere presence

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

Wiring diagram maintained operation



Start-Up: Connect battery conductor

Taking out of operation: Disconnect battery conductor

Lamp: The lamp is on via the mains or in case a mains failure via the battery

Stand-by wiring: Do not connect L1'

Applications:

Hazardous areas of zones 1, 2 and 21, 22. Designed for safety illumination or as instruction or emergency exit sign lights.

Mechanical design:

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

Glass pane: Impact resistant safety glass pane, frameless, hinged.

Reflector: White sheet steel, detachable.

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

Isolating switch: 2 switches for switching off all poles when light fitting is opened.

Optical indicator showing the actual position of the switch.

Connection terminals: Standard Connection range: 2.5 mm² max.

Cable entry: Standard 1 cable gland M25 x 1,5

Mounting: Lighting downwards or horizontally. Mounting brackets are included.

Electrical design:

Microprocessor controlled, intelligent emergency light electronic device with integrated control gear (ECG) with "end-of-life switching-off system" acc. to IEC 61347-2-3. Redundant low discharge protection and restart blocking system.

Multi-function LED: For monitoring the emergency light function and coded status indication.

NiCd batteries: 6V/2.5 ah or 6V/1.5 ah, maintenance-free, quick battery replacement. Electrical disconnection whenever the glass pane is opened.

Automatic monitoring: Weekly functioning test, annual 2/3 operating period test.

Recharging time: 24 h, acc. to EN 60598-2-22

Mode of operation:

Maintained operation: Switching over to battery operation in case of mains failure. Connection terminals: Standard L1 + L1' + N + PE, max. range of connection: 2.5 mm².

1. Direct phase L1, (or L2, L3) comes from the circuit fuse and is directly (not via the switch) connected to phase L1 (= charging phase). Consequently if the light fitting is switched off the direct phase is live unless the fuses are open or removed.

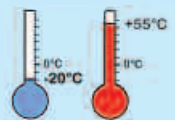
2. Switched phase L1' goes to connection terminal L1' via the switch and must be electrically identical with the direct phase L1.

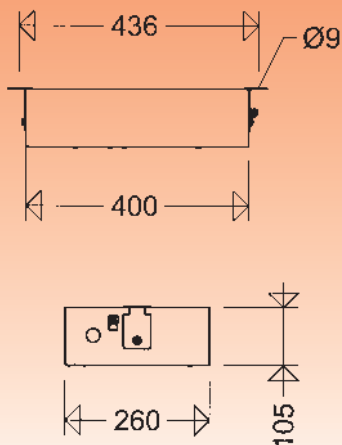
3. Neutral conductor N: In case of 220V between the outer conductors instead of the N conductor an outer conductor is selected e.g. L2 or L3.

4. Earth conductor PE

SCHUCH Quality – your advantage:

- reliable and durable thanks to a microprocessor controlled intelligent emergency electronic device with integral ECG.
  - "end-of-life switching-off system" (certification acc. to the latest standard IEC 60079-7 with 2 safety circuits Test 1 and Test 2)
  - multi-function LED with coded indication of the functions, status and potential failures of the electronic device and of the batteries
  - special signal whenever there is an EOL situation (LED red flashing)
  - maintained or stand-by wiring
  - automatic weekly functioning test
  - automatic annual 2/3 operating period test
  - function and operating period test can be effected manually
  - quick replacement of battery set even in explosive atmosphere
- easy to install and maintain, safety implemented
  - central locking system with hingeable safety glass pane for easy lamp replacement
  - isolating switch with optical indicator showing the actual position of the switch
- application within a range of ambient temperature of -20°C up to +55°C (recommended: 0°C up to +40°C)
  - intelligent electronic device to charge batteries even at -20°C





e801 .../.../...

for bi-pin fluorescent tube, socket G5



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP65



EC-Type Examination Certificate:

PTB 08 **ATEX** 2026

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II2 G Ex deq IIC T4 (Zone 1)

II2 D ExtD A21 IP65 ¹⁾ T70°C (Zone 21)

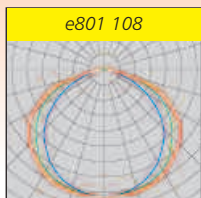
Ignition protection: e (increased safety)

Rated voltage: 220-254V, AC, (±10%), 50-60Hz

Admissible ambient temperature:

-20°C up to +55°C

(nominal range) 0°C up to +40°C



Type	Article no.	Lamps W	Lumin. flux- fact. ca. %	Weight ca. kg ²⁾

1h hour emergency operation

e801 108/1/1,5	80100 0001	1 x T16/8W	55	6,8
e801 108/1/2,5	80100 0002	1 x T16/8W	85	7,4

3h hour emergency operation

e801 108/3/2,5	80100 0003	1 x T16/8W	30	7,4

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

- recessed version with frame
- for 1,5h emergency operation
- 2 entries on one small end of the housing for looping the mains cable
- with remote switch connection
- with housing in stainless steel
- 2 cable entries
- silicone free



Foto: BASF

Self-adhesive pictograms for marking escape routes acc. to VGB 125 and DIN 4844.



389/223/33W



.../34W



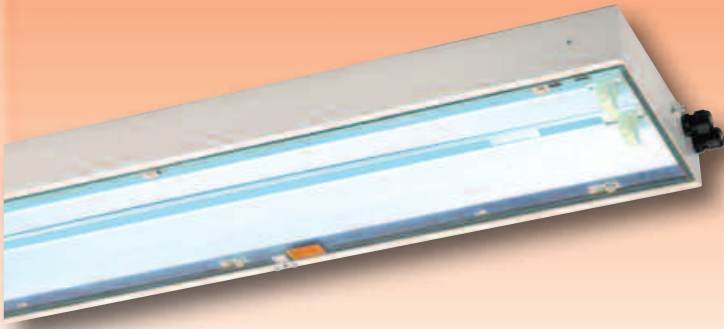
.../35W

Sighting distance acc. to EN 1838 and DIN 4844 = 25m.

Accessories / Spare Parts

Type	Article no.	
Spare batteries		
AKKU 8020	90222 9023	spare battery 1,5Ah
AKKU 8021	90222 9024	spare battery 2,5Ah
Spare glass pane		
8100	80009 9001	spare glass pane
Spare cable glands		
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5
Self adhesive pictograms		
389/223/33 W	38900 0001	emergency exit to the left
389/223/34 W	38900 0002	emergency exit to the right
389/223/35 W	38900 0003	emergency exit below

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:

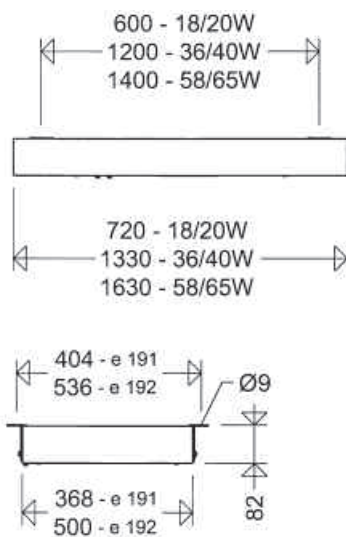
For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.

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

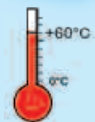


- standardized by Deutsche Bahn AG



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 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:

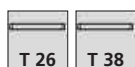
ceiling and recessed mounting

-20°C up to +60°C (e191...) or up to +50°C (e192...)

recessed mounting into heat insulated

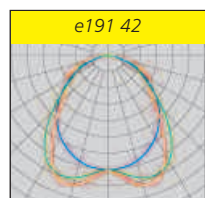
ceilings (acc. to EN60598)

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



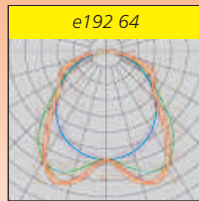
Looping the cable on one side:

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.

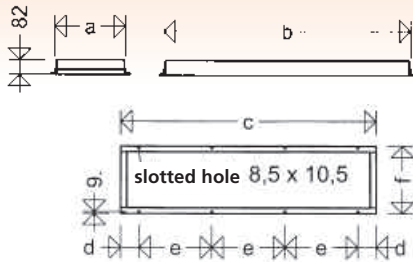


Type	Article no.	Temp. class	Lamps W	Weight ca. kg
narrow housing				
e191 21	19100 0001	T4	1 x T 26/18 W	9,8
e191 22	19100 0002	T4	2 x T 26/18 W	9,8
e191 41	19100 0003	T4	1 x T 26/36 W	15,5
e191 42	19100 0004	T4	2 x T 26/36 W	15,5
e191 61	19100 0005	T4	1 x T 26/58 W	18,1
e191 62	19100 0006	T4	2 x T 26/58 W	18,1

Type	Article no.	Temp. class	Lamps W	Weight ca. kg
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.	
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)

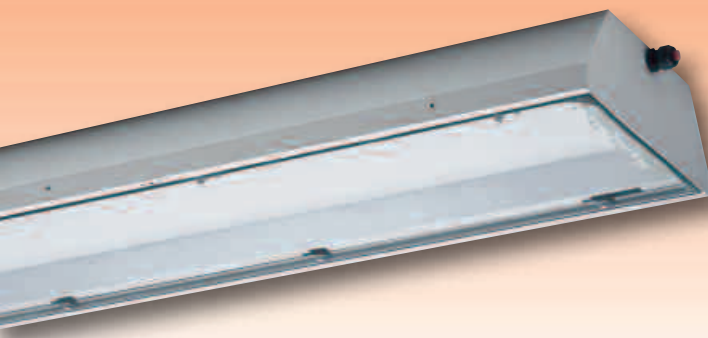
Accessories / Spare Parts

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

NEW

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

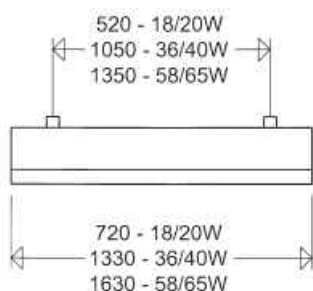


Attention:

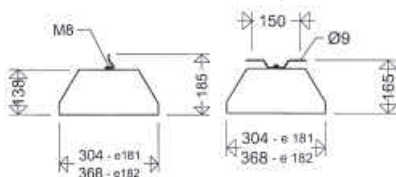
For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.

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



Suspension hooks H8V Ceiling brackets 15A



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.

Applications:

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

Design:

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

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 po-

sition of the switch.

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

Connection terminals: Standard L1+N+PE, up to 6,0mm².

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

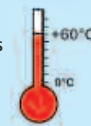
LOOP-IN/OUT at extra charge

Standard: Facing downwards or forwards

Mounting: Suspension hooks (H8V P) or ceiling brackets (15A P), at extra charge (see accessories)

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 made from galvanized steel and 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 the end of its life a 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)
  - 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) and a low failure rate
- best suitable for mounting and maintenance purpose, safety implemented**
  - Original SCHUCH central locking system with hingeable safety glass pane for an easy lamp replacement
  - easily accessible connection compartment via hingeable reflector
  - isolating switch with optical indicator showing 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 and admissible range of ambient temperature from -20°C to +60°C (version "H")
  - for connection to central- or group battery systems with DC-detection and change-over to 1- lamp operation (emergency mode - types e181/182... ZB)
  - separate frame for recessed installation and a swivel arm mounting system can be installed at a later stage, too. 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)



e181..



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP65



EC-Type Examination Certificate:

IBExU 02 ATEX 1018

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)

Ignition protection: e (increased safety)

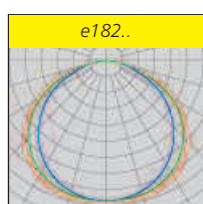
Admissible ambient temperature:

-20°C to +50°C (1 or 2 lamps)

-20°C to +40°C (3 or 4 lamps)

special versions up to +60°C.

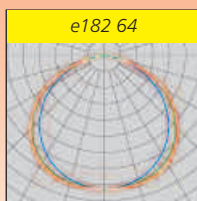
Rated voltage: 220-240 V AC/DC, 0 or 50/60 Hz.



Type	Article no.	max. Amb. Temp.	Lamps W	Weight ca. kg
narrow housing				
e181 21	18000 0001	60°C	1 x T 26/18 W	11,7
e181 22	18000 0002	60°C	2 x T 26/18 W	11,7
e181 23	18000 0009	60°C	3 x T 26/18 W	13,6
e181 41	18000 0003	60°C	1 x T 26/36 W	17,6
e181 42	18000 0004	60°C	2 x T 26/36 W	19,0
e181 43	18000 0010	55°C	3 x T 26/36 W	22,9
e181 61	18000 0005	55°C	1 x T 26/58 W	22,5
e181 62	18000 0006	55°C	2 x T 26/58 W	22,5
e181 63	18000 0011	50°C	3 x T 26/58 W	24,6

Type	Article no.	max. Amb. Temp.	Lamps W	Weight ca. kg

wide housing



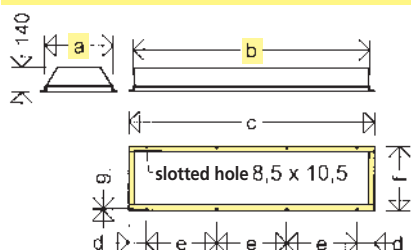
e182 23	18000 0201	55°C	3 x T 26/18 W	14,8
e182 24	18000 0202	55°C	4 x T 26/18 W	14,8
e182 43	18000 0203	60°C	3 x T 26/36 W	22,5
e182 44	18000 0204	55°C	4 x T 26/36 W	22,5
e182 63	18000 0205	50°C	3 x T 26/58 W	27,0
e182 64	18000 0206	40°C	4 x T 26/58 W	27,0



Explosion-proof
Light Fittings Zone 1/21



Dimensions for recessed installation



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.

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

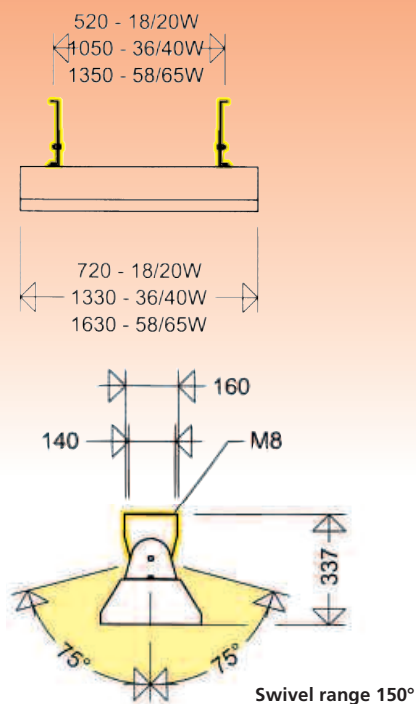
Type	Article no.	
EB 181/18	18091 0001	frame for narrow housing, 1,2 and 3 x 18 W
EB 181/36	18091 0002	frame for narrow housing, 1,2 and 3 x 36 W
EB 181/58	18091 0003	frame for narrow housing, 1,2 and 3 x 58 W
EB 182/18	18091 0004	frame for wide housing, 3 and 4 x 18 W
EB 182/36	18091 0005	frame for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

Swivel Arm Mounting System

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).



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



Further Series / Equipment

- up to 4 cable entries
- different glands
- through wiring system up to 5 x 6,0mm²
- with monitoring module for individual monitoring the light fitting connected to a central or group battery system
- for connection to central- or group battery system with DC-detection and change-over to 1-lamp operation (emergency mode - types e181/182 ... ZB)
- without isolating switch (types e181/182.. OS)
- stainless steel housing, powder coated
- silicone-free version
- zone 2/22 version (series n/nD 181/182..)
- non-explosion-proof versions (series 181/182...) as dust- and waterproof version
- for zones 21 and 22 (particularly dust hazardous areas) (series e187/188..) and (series nD187/188..)

Mounting material

Suspension hooks H8V P



Ceiling brackets 15A P



Wall angle WD 45 P



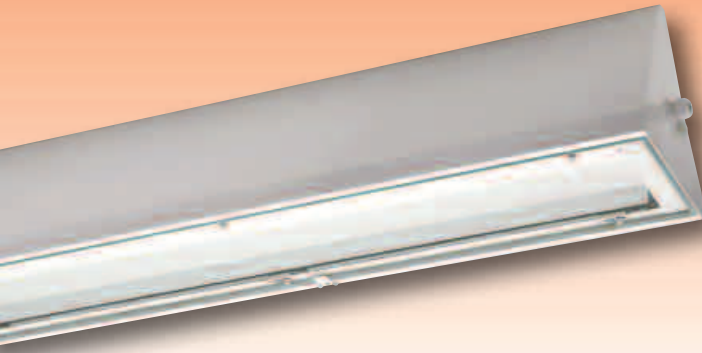
Further accessories such as carrier rail systems and through wiring systems are available.

Accessories / Spare Parts

Type	Article no.	
Spare glass panes		
181 18-1	18090 9001	for narrow housings, 1, 2 und 3 x 18 W
181 36-1	18090 9002	for narrow housings, 1, 2 und 3 x 36 W
181 58-1	18090 9003	for narrow housings, 1, 2 und 3 x 58 W
182 18-1	18090 9004	for wide housings, 3 und 4 x 18 W
182 36-1	18090 9005	for wide housings, 3 und 4 x 36 W
182 58-1	18090 9006	for wide housings, 3 und 4 x 58 W
Cable entries/glands		
2537	90117 9000	explosion-proof cable gland M25 x 1,5
2539	90119 9000	explosion-proof cable gland with plug (M25 x 1,5)
2538	90118 9000	explosion-proof plug M25 x 1,5
for e181.. and e182..		
for e181.. H.. and e182.. H..		
2592	90117 9002	explosion-proof gland M25 x 1,5 with gasket, heat resistant
2594	90118 9002	explosion-proof plug M25 x 1,5 with gasket, heat resistant
2593	90190 9002	spare gasket for 2592 and 2594
Lamp holder		
for fittings manufactured until 2009		
e2413	90189 9000	ex - rotary-type plug-in lamp holder
for fittings manufactured from 2009		
e8911	90189 9001	ex - rotary-type plug-in lamp holder
Mounting material		
H8V P	90001 0002	2 suspension hooks with bold M8, stainless steel
15A P	90000 0002	2 ceiling brackets, steel hot galvanized
15AV P	90032 0002	2 ceiling brackets, stainless steel
WD 45 P	26000 0005	2 wall/ceiling angle, steel

NEW

Explosion-proof Sheet Steel Light Fitting for Dust Hazardous Areas Series e187/188..



Applications:

Hazardous areas of Zones 1, 21 and 2, 22, especially for dust hazardous areas of Zones 21/22

Design:

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

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 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"

Connecting terminal: Standard L1 + N +PE, up to 6,0mm².

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

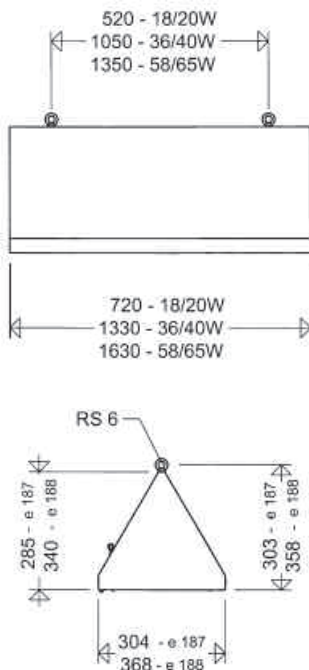
Through wiring system: 5 x 2,5mm² through wiring or preparation for 5-pole LOOP-IN/OUT at extra charge

Mounting: Horizontal, with 2 eyebolts (included).

Attention:

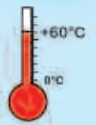
For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.

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).



Schuch Quality - your advantage:

- sturdy design of high chemical resistance for application in rough industrial conditions:**
  - housing in a special dust repellent design, made from powder coated sheet steel or upon request from stainless steel
  - frameless safety glass pane
  - solid central locking system made from galvanized steel and high-grade stainless steel hinges
- reliable, fail-safe and long-life thanks to a special ex-proof ECG with outstanding quality features:**
  - "end-of-life switching-off system" i.e. at the end of its life a 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)
  - double channel system for separate lamp operation
  - extremely favourable operating temperatures thanks to a special quartz sand encapsulation inside an aluminium housing are a guaranteed for a long life time (up to 100.000h) and a low failure rate
- best suitable for mounting and maintenance purpose with integrated safety**
  - suspension mount by means of chains or steel cables
  - Original SCHUCH central locking system with hingeable safety glass pane for an easy lamp replacement
  - easily accessible connection compartment via hingeable reflector
  - isolating switch with optical indicator showing 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 and admissible range of ambient temperature from -20°C to +60°C
  - for connection to central- or group battery systems with DC-detection and change-over to 1-lamp operation (emergency mode - types ... ZB)
  - designed for application of fluo tubes of 26mmØ and 38mmØ
  - looping system on one side of the housing; bilateral through wiring system (on request)



e187..



II 2 G Ex deq IIC T4

II 2 D Ex tD A21 T80°C

IP65



EC-Type Examination Certificate:

IBExU 02 ATEX 1018

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)

Ignition protection: e (increased safety)

Admissible ambient temperature:

-20°C to +50°C (1 or 2 lamps)

-20°C to +40°C (3 or 4 lamps)

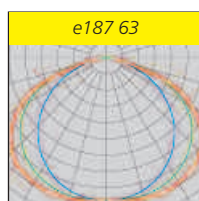
special version up to +60°C.

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

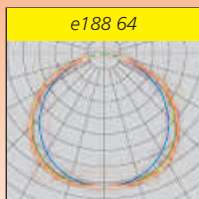


Looping the cable on one side:

All light fittings of series e187/188.. have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.



Type	Article no.	max. Amb. Temp.	Lamps W	Weight ca. kg
e187 21	18700 0001	60°C	1 x T 26/18 W	12,6
e187 22	18700 0002	60°C	2 x T 26/18 W	12,6
e187 23	18700 0009	60°C	3 x T 26/18 W	14,4
e187 41	18700 0003	60°C	1 x T 26/36 W	20,2
e187 42	18700 0004	60°C	2 x T 26/36 W	20,2
e187 43	18700 0010	55°C	3 x T 26/36 W	22,0
e187 61	18700 0005	55°C	1 x T 26/58 W	23,8
e187 62	18700 0006	55°C	2 x T 26/58 W	23,8
e187 63	18700 0011	50°C	3 x T 26/58 W	25,8



Type	Article no.	max. Amb. Temp.	Lamps W	Weight ca. kg
e188 23	18700 0201	55°C	3 x T 26/18 W	17,6
e188 24	18700 0202	55°C	4 x T 26/18 W	17,6
e188 43	18700 0203	60°C	3 x T 26/36 W	25,2
e188 44	18700 0204	55°C	4 x T 26/36 W	25,2
e188 63	18700 0205	50°C	3 x T 26/58 W	29,0
e188 64	18700 0206	40°C	4 x T 26/58 W	29,0



Further series / equipment

- up to 4 cable entries
- different glands
- through wiring system up to 5 x 6.0 mm²
- for connection to central- or group battery system with DC-detection and change-over to 1-lamp operation (emergency mode - types e181/182 ... ZB)
- with DC-detection and switching over to 1-lamp DC-operation. Application in group- or central battery systems (types e187/188 ... ZB)
- with monitoring module for individual monitoring the light fitting connected to a central or group battery system
- without isolating switch (types e187/188... OS)
- stainless steel housing powder coated
- silicone-free version
- zone 2/22 version (series nD187/188...)
- non explosion proof version (series 187/188..., see water-/dust-proof fittings in catalogue)

Accessories / Spare Parts

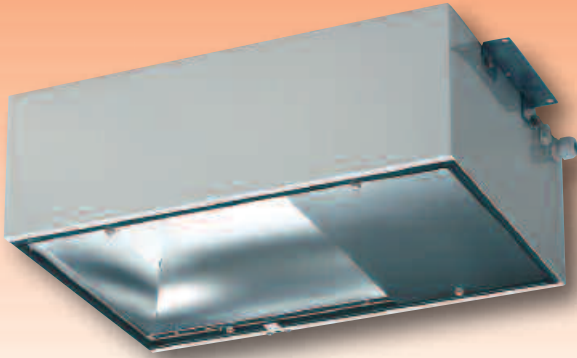
Type	Article no.	
Spare glass panes		
181 18-1	18090 9001	for narrow housings, 1, 2 und 3 x 18 W
181 36-1	18090 9002	for narrow housings, 1, 2 und 3 x 36 W
181 58-1	18090 9003	for narrow housings, 1, 2 und 3 x 58 W
182 18-1	18090 9004	for wide housings, 3 und 4 x 18 W
182 36-1	18090 9005	for wide housings, 3 und 4 x 36 W
182 58-1	18090 9006	for wide housings, 3 und 4 x 58 W
Cable entries/glands		
2537	90117 9000	explosion-proof cable gland M25 x 1,5
2539	90119 9000	explosion-proof cable gland with plug (M25 x 1,5)
2538	90118 9000	explosion-proof plug M25 x 1,5
for e187/188..		
2592	90117 9002	ex-proof gland M25 x 1,5 with gasket, heat resitant
2594	90118 9002	ex-proof plug M25 x 1,5 with gasket, heat resistant
2593	90190 9002	spare gasket for 2592 and 2594
Lamp holder		
for fittings manufactured until 2009		
e2413	90189 9000	Ex - rotary-type plug-in lamp holder
for fittings manufactured from 2009		
e8911	90189 9001	Ex - rotary-type plug-in lamp holder

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

NEW

NEW

Explosion-Proof Light Fitting for Industrial Application / with Induction-Type Lamp System ENDURA - Series e8070... ENDURA



Applications:

Hazardous areas of Zones 1 and 2, workshops, warehouses, loading and unloading areas under roof, especially at places which are not easily accessible and where a lamp replacement may be a costly matter or if generally long maintenance intervals are wanted for cost saving.

Design:

Housing: Sheet steel (optionally stainless steel), powder coated in light grey (RAL 7035), with induction-type lamp and ECG.

Glass: Frameless safety glass pane, hinged

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

Reflector: Reflector system optimized for the ENDURA lamp, made from surface refined purest aluminium.

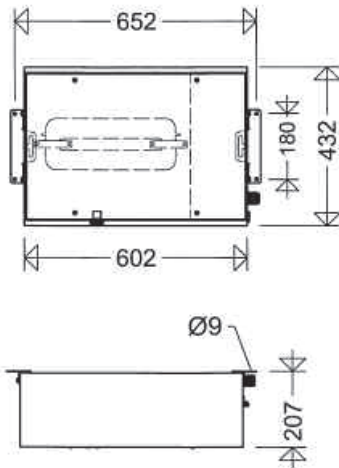
Connection terminals: L1 + N + PE 2,5mm² max.

Cable entry: 1 cable gland M25 x 1,5, 1 plug M25 x 1,5 (both on same side)

Standard: Facing downwards or forwards.

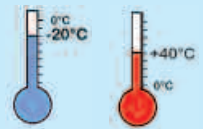
Mechanical installation: Angle brackets for direct ceiling mounting (4 borings of a 9mm Ø) or suspension by means of chains or steel ropes with spring hooks.

World wide first ex-proof compact projector with induction-type light system certified in "increased safety version".



SCHUCH Quality - your advantage:

- sturdy industrial design for reliable and safe long-term use
  - sturdy sheet steel housing (or in stainless steel) with high-grade powder coating
  - frameless safety glass pane (5mm) secured by 2 socket cap screws
  - shock tested RK 1.6/16A
- easy to install and maintain
  - Original SCHUCH central locking system with hingeable safety glass pane for an easy lamp replacement
  - universal mounting bracket for direct ceiling mount or suspension mount
  - hinged safety glass pane for easy access and easy connection in the spacious connection chamber
- long-life induction-type light system with significant advantages:
  - ideal for mounting positions which are difficult to access
  - extremely long life (60.000 hrs)
  - flicker-free instant start within < 0.1 sec., suitable as emergency illumination
  - high luminous flux (12.000lm) beside high efficiency (80lm/W)
  - high quality colour reproduction Ra > 80
  - none-flickering light output due to high frequency pulsing >250kHz
  - instant reignition with almost full light output
  - constantly high luminous flux over a large range of mains voltage, suitable for D.C. voltage
  - low luminous flux decline during life cycle
  - low ignition temperature and constantly high luminous flux over a wide temperature range, suitable for low temperatures at outdoor areas, down to -20°C
  - maintenance-free
- light technically optimized mirror system from surface refined purest aluminium with high efficiency



e8070... ENDURA



II 2 G Ex de IIC T4

IP65



EC-Type Examination Certificate:

PTB 99 ATEX 2065

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking: II 2 G Ex de IIC T4

Admissible ambient temperature:

-20°C up to +40°C

Rated voltage:

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



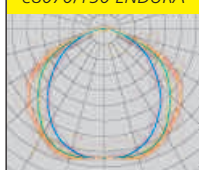
Type	Article no.	Temp. class	Lamp/ Watt	Weight ca.kg ¹⁾

with induction-type lamp and ECG (electronic control gear)

e8070/150 ENDURA 80700 0001 T4 1 x LMT-SIH 150

1) weights without packing material

e8070/150 ENDURA





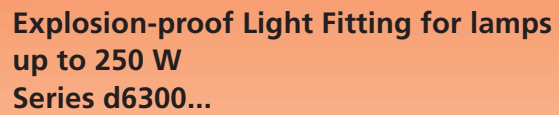
Further Series / Equipment

- different cable glands
- stainless steel housing, powder coated
- with isolating switch

- with swivel bracket up to 45° (ceiling and wall mounting)

Accessories / Spare Parts

Type	Article no.	
2070/010	90247 9000	spare glass pane
3070 SWB	90231 0001	swivel bracket holder with accessories
2537	90117 9000	ex-proof plastic cable gland M25 x 1.5
2538	90118 9000	ex-proof plug M25 x 1.5



Mechanical installation: Variable; accessories please see spare parts / accessories.

d6300... H50

for high ambient temperatures up to +50°C



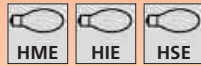
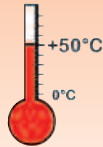
II 2 G Ex de IIC T4/T5

IP66/67



The types for compact fluorescent lamps as well as for high pressure discharge lamps < 250W as well as for blended

lamps have been certified for +50°C a.t. in their standard version.



Type	Article no.	Temp.-class	Lamps W	Weight ca. kg ³⁾

for high pressure discharge lamps, socket E27 or E40

d6300/250 H50	63000 0007 ²⁾	T4	1 x HME 250	14,6
d6300/150 HI H50	63000 0027 ¹⁾	T5	1 x HIE 150	12,6
d6300/250 HI H50	63000 0009 ¹⁾	T4	1 x HIE 250	17,0
d6300/250 HS H50	63000 0013 ¹⁾	T4	1 x HSE 250	17,0

1) Uncomp., article nos. for comp. see price list

2) with inductive ballast only

3) Weights without packing material

d6300... QL

with induction-type lighting system QL



II 2 G Ex de IIC

T6

IP66/67



Applications:

For installation at locations difficult to reach for lamp replacement or where long maintenance intervals are wanted for cost savings.

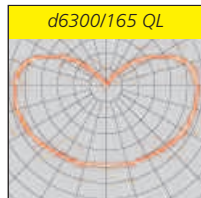
Design:

As before but with induction-type lamp and ECG (electronic control gear).

Admissible ambient temperature:

-20°C up to +40°C.

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



Type	Article no.	Temp.-Class	Lamps Watt	Weight ca. kg

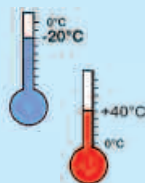
with induction-type lamp and electronic control gear (EVG)

d6300/85 QL	63000 0015	T6	1 x LMG-IHF 85	11,1
d6300/165 QL	63000 0016	T6	1 x LMG-IHF 165	16,2

World-wide first flameproof luminaire certified with induction-type lamp system.

Advantages of the induction-type lighting system "QL":

- extremely long life (≥ 60,000 hours)
- flicker-free instant start within < 0.1sec., suitable as emergency lighting
- instant re-ignition (almost full light output)
- constantly high luminous flux over a large voltage range, suitable for DC
- low ignition temperature and constantly high luminous flux over a wide temperature range, suitable for low temperatures and outdoor application down to -20°C
- any position of operation
- maintenance-free



Further Series / Equipment

- with connection terminals up to 10mm²
- with 2 cable glands
- with ex-proof cable glands different from the standard ones
- with integrated isolating switch operating when the light fitting is opened
- with wire guard
- with external reflector
- hard coated version for installation in very aggressive atmospheres (e.g. offshore installations)
- with swivel arm
- for blended lamps HME-SB 100-250W
- for special rated voltages 110V - 277V AC, 110 - 250V DC 50/60Hz

d 6300 with external reflector of high bay and low bay versions

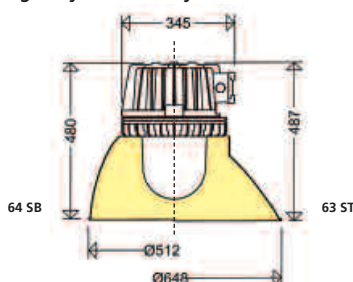
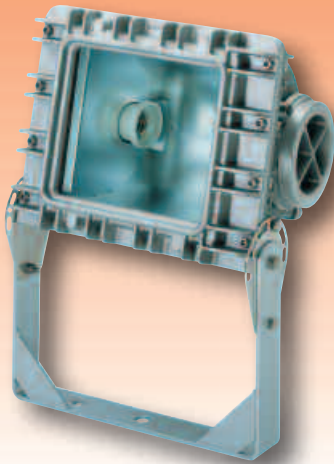


Photo: BASF

Accessories / Spare Parts

Type	Article no.	
63 ST	63001 0001	external reflector narrow beam
64 SB	90097 0001	external reflector wide beam
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5 (for d6300... QL, .../100-250 HI, .../100-150 HS)
2537 MS	90117 9001	ex-proof brass gland M25 x 1,5 (for .../250HI, ... H50, .../250HS, .../125, .../250 and .../ 250ML)
RS 8 P	90028 0002	1 pair of suspension hooks, galvanized steel, M8
62 A	90010 0001	ceiling bracket, galvanized steel
63 SWB	90246 0001	swivel arm, galvanized steel
63 SK	63002 0001	wire guard

Explosion-proof Floodlight for Lamps up to 500W Series d3000...



Applications:

Hazardous locations of zones 1, 2 and 21, 22, on- and offshore installations, loading stations, oil rigs, silos etc.

Design:

Housing and glass retaining frame:

From weathering resistant cast aluminium. Lateral lockable screw cap for lamp replacement. Ballast and ignitor inside the housing.

Condenser box: Mounted to the back of the floodlight.

Reflector: Made from surface refined purest aluminium.

Glass pane: Tempered safety glass resistant to temperature variations, glued into the frame.

Connection terminals:

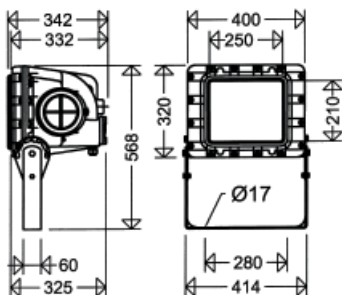
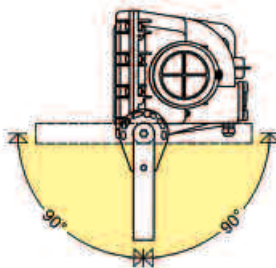
Standard: L1+N+PE - 2,5mm², in case of compensated version 6mm²

Cable entries:

2 entries M25 x 1,5 (1 plastic gland + 1 plug)

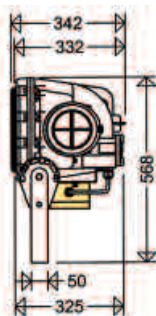
Mounting position: Lamp orientation horizontal.

Mechanical installation: 1 steel bracket.



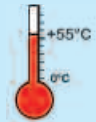
Swivel range: ± 90°

with condenser box m 4015



SCHUCH Quality - your advantage:

- robust industrial design for reliable and safe long-term use**
  - sturdy and corrosion-resistant housing made of cast aluminium
  - all outer screws and bolts made of stainless steel
  - solid, shock and temperature resistant safety glass pane
- easy to install and to maintain**
  - easy installation and lamp replacement through screw cap
  - continuously adjustable tilt angle
- for applications in different ambient conditions**
  - for various lamp types (metal halide-, sodium discharge-, mercury vapour-, halogen lamps)
  - for lamps from: 50W to 500W
  - for 120V, 220V, 230V, 240V and 255V
  - **ATEX**-certified for gas and dust hazardous areas (Zones 1,21 and 2,22) and explosion group II C
  - wide range of admissible ambient temperatures -20°C up to +55°C



d3000...



II 2 G Ex de IIC T2-T4

II 2 D Ex td A21 T100-240°C

IP66/67



EC-Type Examination Certificate:

PTB04 **ATEX** 1023

PTB10 **ATEX** 1002X

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex de IIC T2-T4 (Zone 1)

II 2 D Ex td A21 IP66/67 T100-240°C (Zone 21)

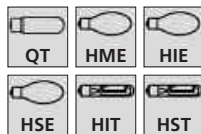
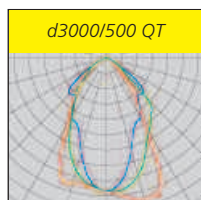
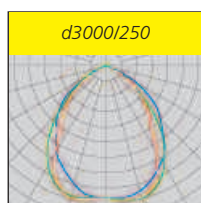
Ignition protection: d (flameproof)

Admissible ambient temperature:

-20°C up to +40°C / +55°C

Rated voltage:

Standard:
230V, 50 Hz,
220V or 240V, 50/60Hz.



Type	Article no.	Temp. class	Lamps W	Weight ca.kg ²⁾

for tungsten halogen lamps up to 500W, socket E40 or E27

d3000/250 QT ⁵⁾	30001 0001	T3	1 x QT 250 W	25,0
d3000/500 QT ⁴⁾	30001 0002	T2	1 x QT 500 W ³⁾	25,0

for high pressure discharge lamps, socket E40 or E27

d3000/125 ⁵⁾	30001 0003 ¹⁾	T4	1 x HME 125	27,0
d3000/250 ⁴⁾	30001 0005 ¹⁾	T3	1 x HME 250	28,0
d3000/70 HS ⁵⁾	30001 0013 ¹⁾	T4	1 x HSE/HST 70	24,2
d3000/150 HIE E27 ⁵⁾	30001 0011 ¹⁾	T4	1 x HIE 150	27,5
d3000/150 HI/HS E40 ⁴⁾	30001 0007 ¹⁾	T4	1 x HIT/HSE/HST 150	27,3
d3000/250 HI/HS ⁴⁾	30001 0009 ¹⁾	T3	1 x HIE/HIT/HSE/HST 250	28,8

1) Uncomp., article no. for comp. (with condenser box m4015) see price list.

2) Weights without packing material

3) PHILIPS IDE

4) Socket E40

5) Socket E27



Photo: BASF

d3000... H..



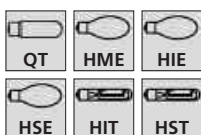
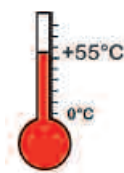
II 2 G Ex de IIC T2-T4

II 2 D Ex tD A21 T100-240°C

IP66/67



for high ambient temperatures up to +55°C



Type	Article no.	Temp.-class	Lamps W	Weight ca. kg ⁶⁾
for tungsten halogen lamps, socket E40 or E27				
d3000/250 QT H55 ⁵⁾	30001 0101	T3	1 x QT 250 W	25,0
d3000/500 QT H50 ⁴⁾	30001 0102	T2	1 x QT 500 W ³⁾	25,0
for high pressure lamps, socket E40 or E27, with condenser box m4015				
d3000/125 H55 ⁵⁾	30001 0103 ¹⁾	T4	1 x HME 125	27,0
d3000/150 H/H5 E40 H55 ²⁾ 4)	30001 0107 ¹⁾	T3	1 x HIT/HSE/HST 150	27,3
d3000/150 HIE E27 H55 ²⁾ 5)	30001 0111 ¹⁾	T3	1 x HIE 150	27,5

1) Uncomp., article no. for comp. see price list
2) Only such metal halide lamps may be used which are allowed to be operated with hpsv ballasts.

3) PHILIPS IDE
4) Socket E40
5) Socket E27
6) Weights without packing material.



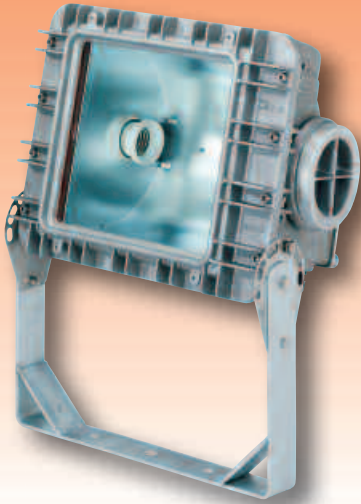
Further Series / Equipment

- hard-coating for very aggressive ambient conditions
- with bracket from stainless steel
- different cable glands
- 2nd cable gland for mains cable looping
- in 120V version for 300W, 500W
- (QT lamp JTT of brand Eye)
- with terminals up to 6mm² in case of uncomp. version
- with socket E27 for 200W incandescent lamps

Accessories / Spare Parts

Type	Article no.	
Cable entries / Cable glands		
2537	90117 9000	Ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	Ex-proof plastic plug M25 x 1,5
Cable entries / Cable glands for d3000/500 QT H55 and HS		
2592	90117 9002	Ex-proof cable gland M25 x 1,5, with gasket, heat resistant
2594	90118 9002	Ex-proof plug M25 x 1,5, with gasket, heat resistant

Explosion-proof Floodlight for Lamps up to 1000 W Series d4000...



Applications:

Hazardous locations of zones 1, 2 and 21, 22, on- and offshore installations, loading stations, oil rigs, silos etc.

Design:

Housing and glass retaining frame:

From weathering resistant cast aluminium. Lateral lockable screw cap for lamp replacement. Ballast and ignitor inside the housing.

Condenser box: Mounted to the back of the floodlight.

Reflector: Made from surface refined purest aluminium.

Glass pane: Tempered safety glass resistant to temperature variations, glued into the frame.

Connection terminals:

Standard: L1+N+PE - 2,5mm², in case of compensated version 6mm²

Cable entries:

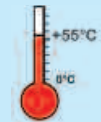
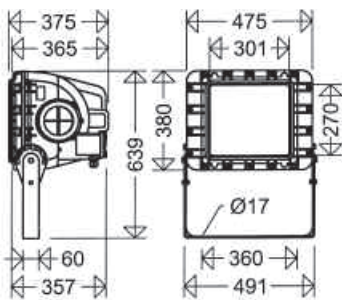
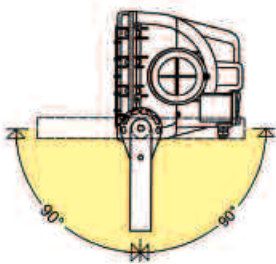
2 entries M25 x 1,5 (1 plastic gland + 1 plug)

Mounting position: Lamp orientation horizontal.

Mechanical installation: 1 steel bracket.

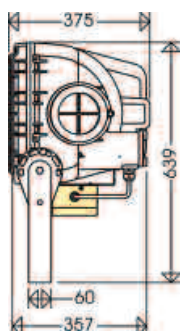
SCHUCH Quality - your advantage:

- **robust industrial design for reliable and safe long-term use**
  - sturdy and corrosion-resistant housing made of cast aluminium
  - all outer screws and bolts made of stainless steel
  - solid, shock and temperature resistant safety glass pane
- **easy to install and to maintain**
  - easy installation and lamp replacement through screw cap
  - continuously adjustable tilt angle
- **for applications in different ambient conditions**
  - for various lamp types (metal halide-, sodium discharge-, mercury vapour-, halogen lamps)
  - for lamps from 250W to 1000W
  - for 120V, 220V, 230V, 240V and 255V
  - **ATEX**-certified for gas and dust hazardous areas (Zones 1, 21 and 2, 22) and explosion group II C
  - wide range of admissible ambient temperatures -20°C up to +55°C



Swivel range: ± 90°

with condenser box m 4015



d4000 ...



II 2 G Ex de IIC T2-T4

II 2 D Ex td A21 T140-270°C

IP66/67



EC-Type Examination Certificate:

PTB03 **ATEX** 1164

PTB10 **ATEX** 1001X

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex de IIC T2-T4 (Zone 1)

II 2 D Ex td A21 IP66/67 T140-270°C (Zone 21)

Ignition protection: d (flameproof enclosure)

Admissible ambient temperature:

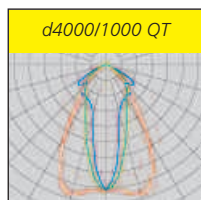
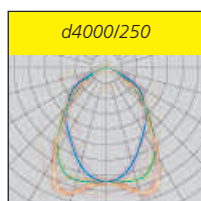
-20°C up to +40°C/+55°C

Rated voltage:

Standard:

230V, 50 Hz;

220V or 240V, 50/60Hz



for tungsten halogen lamps up to 1000W, socket E40

d4000/500 QT	40000 0011	T3	1 x QT 500 W ⁴⁾	33,0
d4000/1000 QT	40000 0012	T2	1 x QT 1000 W ⁴⁾	33,0

for high pressure discharge lamps, socket E40

d4000/250	40000 0001	T4	1 x HME 250	36,3
d4000/250 HI/HSE	40000 0003	T4	1 x HIE/HIT/HSE/HST 250	37,0
d4000/400 HI/HSE	40000 0005	T3	1 x HIT/HST 400	38,2
d4000/600 HS	40000 0009	T3	1 x HST 600 ³⁾	40,6

1) uncom., article no. for comp. (with condenser box m 4015) see price list
2) weights without packing material

3) OSRAM VIALOX NAV-T600 SUPER or PHILIPS SON-T 600
4) PHILIPS IDE



d4000... H55



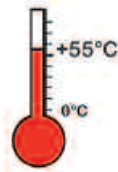
II 2 G Ex de IIC T2-T4

II 2 D Ex tD A21 T140-270°C

IP66/67



for high ambient temperatures up to +55°C



Type	Article no.	Temp. class	Lamps W	Weight ca. kg ⁴⁾

for tungsten halogen lamp, socket E40

d4000/500QT H55	40000 0111	T2	1 x QT 500 W ³⁾	33,0

for high pressure discharge lamps up to 400W, socket E40

d4000/250 H55	40000 0101	T3	1 x HME 250	33,0
d4000/250HI/HS H55 ²⁾	40000 0103	T3	1 x HIE/HIT/HSE/HST 250	37,0
d4000/400HI/HS H55	40000 0105	T3	1 x HIT/HST 400	38,2

1) Uncomp., article no. for comp. (with condenser box m 4015) see price list

2) Only such metal halide lamps may be used which are allowed to be operated with hpsv ballasts

3) PHILIPS IDE

4) Weights without packing material



Further Series / Equipment

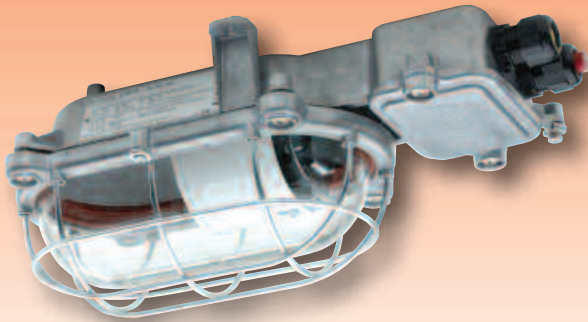
- hard-coating for very aggressive ambient conditions
- with bracket from stainless steel
- different cable glands
- 2nd cable gland for mains cable looping
- in 120V version for 300W, 500W, 1000W

- (QT lamp JTT of brand Eye)
- with terminals up to 6mm² in case of uncomp. version

Accessories / Spare Parts

Type	Article no.	
Cable entries / Cable glands		
2537	90117 9000	Ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	Ex-proof plastic plug M25 x 1,5
Cable entries / Cable glands for d4000/500 QT H55 and d4000/400 HI or HS		
2592	90117 9002	Ex-proof cable gland M25 x 1,5, with gasket, heat resistant
2594	90118 9002	Ex-proof plug M25 x 1,5, with gasket, heat resistant

Explosion-proof Oval-Shaped Light Fitting for GLS lamps up to 100 W Series e2691/2692... A



Applications:

Hazardous locations of zones 1/21 and 2/22.

Design:

Housing: Diecast aluminium.

Glass: Clear heat resistant glass.

Wire guard: Galvanized steel
(OSK version without wire guard).

Cable entry system / connection terminals:

e2691 A (with connection box):

2 entries of size M25 x 1,5 (2 ex-proof plastic glands, 1 of them with ex-proof plastic plug); 3 pole terminal, max. connection range 6,0mm².

e2692 A (without connection box):

2 entries M20 x 1,5 (1 ex-proof gland, 1 ex-proof plug), mains connection with heat resistant cable (up to 145°C). 3 pole terminal, max. connection range 2,5mm².
Standard: Any method except:

100W, 230V AC/DC and

60W, 24V or 42 V AC/DC

vertical wall mounting with downward lamp direction not allowed.

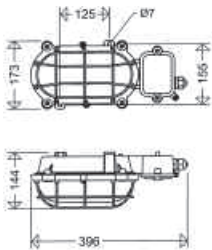
Mounting: 2 cast on brackets for wall or ceiling mounting.

DB - standardized by Deutsche Bahn AG

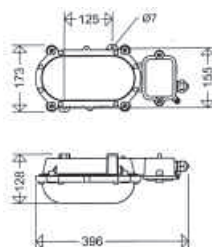
Note:

The specified incandescent lamps are of special design. Such lamps are therefore not forbidden according to the EuP guideline.

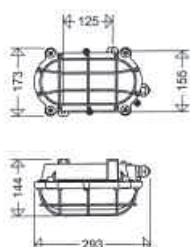
Series e2691... with wire guard



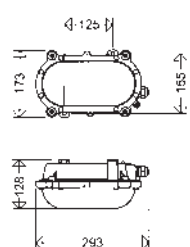
Series e2691... without wire guard



Series e2692... with wire guard

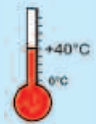


Series e2692... without wire guard



SCHUCH Quality - your advantage:

- sturdy industrial design for reliable and safe long-term use
  - sturdy and corrosion-resistant housing made of cast aluminium
  - all outer screws and bolts made of stainless steel
  - shock and heat resistant safety glass
  - additional safety due to robust wire guard
- easy to install and to maintain
  - cost efficient, no separate junction box needed when installing type e2691 with cast on connection box in increased safety.
- for applications in different ambient conditions
  - for 24V, 42V and 230V AC/DC
  - ATEX-certified for gas and dust hazardous areas (Zones 1,21 and 2,22)
  - ATEX-certified for explosion group II C



e2691/2692 A



II 2 G Ex de IIC T2-T4

II 2 D Ex tD A21 T150°C

IP65



EC-Type Examination Certificate:

PTB 03 ATEX 2164X

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Ignition protection: e (increased safety)

Rated voltage: 24V, 42V, 230V AC/DC

Marking: II 2 G EEx ed IIC T2-T4

II 2 D T150°C

Admissible ambient temperature:

-20°C up to +40°C



Type	Article no.	Lamps W	Voltage	Temp. class	Weight ca. kg

for GLS lamps of brands OSRAM or RADIUM acc. to DIN 49810 part 5 , socket E27

... with connection chamber

e2691 A	26911 0200	A25/40	230	T4	2,5
		A60	230	T3	2,5
		A100 ¹⁾	230	T2	2,5
		A25/40/60	24/42	T2	2,5

... without wire guard

e2691 A OSK	26911 0201	- see above -			2,3

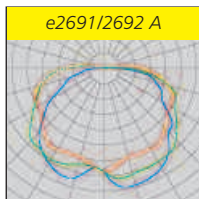
... without connection chamber

e2692 A	26921 0200	- see above -			2,1

... without wire guard

e2692 A OSK	26921 0201	- see above -			1,9

1) DIN 49810 part 4



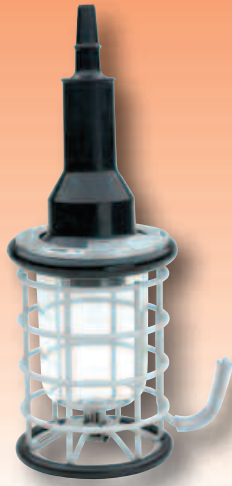
Further Series / Equipment

- e2691: with 5 terminals, max. connection range 2,5mm²

- e2692: with cable entries M25 x 1,5mm²

Accessories / Spare parts

Type	Article no.	
2693 tw ATEX	26930 9003	spare glass
SK 693 A	69300 9001	spare wire guard
2537	90117 9000	cable gland M25 x 1,5 (for e2691 A)
2539	90119 9000	cable gland with plug M25 x 1,5 (for e2691 A)
2587	90120 9002	brass gland M20 x 1,5 with gasket (for e2692 A)
2589	90121 9002	brass plug M20 x 1,5 with gasket (for e2692 A)



Explosion-Proof Handlamp for Incandescent Lamps of 60W max. Series e8310...

Applications:

In hazardous areas of Zones 1, 2 and 21, 22 which cannot be illuminated by any general lighting equipment.

Design:

Handle: Made from rubber (EPDM) with lampholder E27, brake spring for avoiding relieving of the lamp, cable gland with cable retainer M20 x 1,5mm².

Glass globe: Resistant against thermal shocks, supported by pressure buffers at the wire guard.

Wire guard: Plastic coated (RIL)

Cage hook rubber coated, rubber ring serving as an elastic stand surface, locking bolt with hexagon socket.

Any operating position.

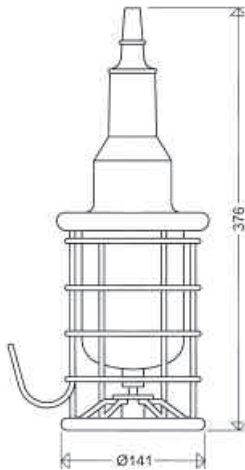
Lamps: Lamps of brand OSRAM or RADIUM only acc. to DIN 49810, section 5.

For application with 24/42V temperature resistant cable is required.

DB - standardized by Deutsche Bahn AG

Note:

The specified incandescent lamps are of special design. Such lamps are therefore not forbidden according to the EuP guideline.



SCHUCH Quality - your advantage:

- **sturdy industrial design for reliable and safe long-term use**
  - sturdy handhold made of high grade rubber (EPDM)
  - shock and temperature resistant safety glass
  - additional safety due to robust plastic coated wire guard
  - high ingress protection
- **easy handling**
  - no temperature resistant cable required (for standard version 230V)
  - easy lamp replacement by unscrewing of only 1 screw
  - with hook and rubber bead ring for safe positioning
- **for applications in different ambient conditions**
  - for 24V, 42V and 230V AC/DC and from 25W to 60W
  - ATEX-certified for gas and dust hazardous areas (Zones 1, 21 and 2, 22)
  - ATEX-certified for explosion group II C and temperature class T4



e8310...
up to 60 W



II 2 G Ex de IIC T3/T4

II 2 D Ex tD A21 T145°C

IP65



EC-Type Examination Certificate:

PTB 01 ATEX 2144

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 2 G Ex de IIC T3/T4 (Zone 1)

II 2 D Ex tD A21 IP65 T145°C (Zone 21)

Ignition protection: "e" (increased safety)

Admissible ambient temperature:

-20°C up to +40°C

Rated voltage:

220-230V AC/DC, 24 / 42V AC/DC

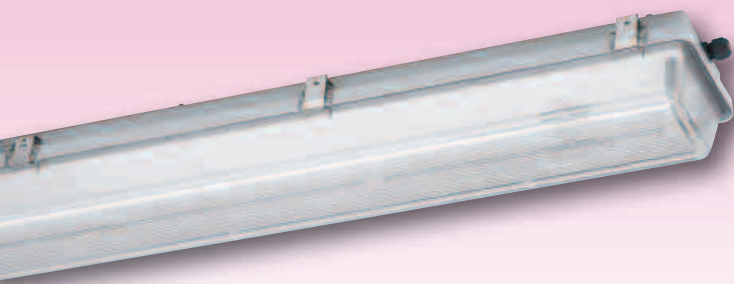


Type	Article no.	Lamps W	Voltage	Temp. class	Weight ca. kg ¹⁾
for GLS lamps of brands OSRAM or RADIUM acc. to DIN 49810 part 5, socket E27					
e8310 RIL ATEX	83100 0004	A 25	230	T4	2,4
		A 40	230	T4	2,4
		A 60	230	T4	2,4
		A 25	24/42	T3	2,4
		A 40	24/42	T3	2,4
		A 60	24/42	T3	2,4

1) Weights without packing material

Accessories / Spare Parts

Type	Article no.	
8309 tw	83090 9000	spare glass globe
830 RIL	83000 0002	spare wire guard, plastic coated
8307 K	90137 9003	spare lamp holder E27 (plastic) for e8310 and e8310 ATEX



Explosion-Protected Light Fitting for Zones 2 and 22 Series nD161/162...

Applications:

Hazardous locations of zones 2 (gas) and 22 (dust) as standard illumination or as emergency illumination in combination with light power supply units (see separate pages of our catalogue).

Design:

Housing: Glass fibre reinforced polyester resin; EPDM gasket.

Cover: Injected clear polycarbonate (PC) with internal prisms.

Closure: Stainless steel clips (KE), one of them as safety clip (KES), to be opened with screwdriver only. Stainless steel hinges (SC) on the opposite side.

Reflector: Suspensible, glass fibre rein-

forced polyester, carrying the electrical components which are protected against accidental contact.

Connection: 2 poles up to 2,5 mm².

Cable entries: 2 entries M20

(2 glands - one of them is plugged)

Through wiring system up to 5 x 2,5 mm² at additional charge.

Standard: Horizontal, facing downwards or forwards

Mechanical installation:

There are closed knock-outs in the housing for direct ceiling mounting. Sealing gaskets can be found inside the luminaire. (Mounting accessories please see spare parts/accessories).

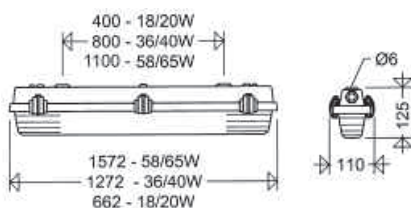
Shock tested:

1 x 18/36W	RK 4,0/40B
1 x 58W	RK 1,6/16A
162 2..	RK 2,5/25A

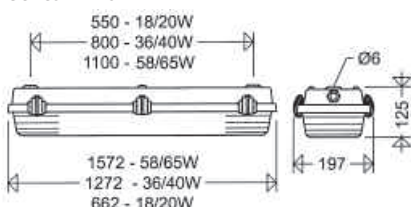
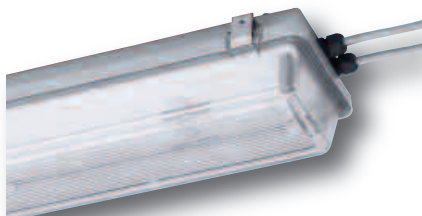
shock and earth-quake tested (by TÜV)

DB standardized by Deutsche Bahn AG

Series nD 161...



Series nD 162...

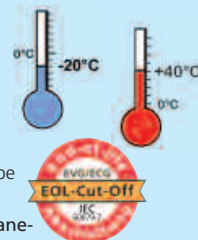


Looping the cable on one side:

Upon request the light fittings for 2 tubes can be supplied with 2 cable entries at one small end of the housing for looping the mains cable.

Schuch Quality - your advantage:

- a high-quality chemically resistant light fitting of a sturdy design, best suitable for a long-time application in industrial areas
  - housing made from glass fibre reinforced polyester resin of a high impact resistance, wall thickness: 2 mm
  - injection moulded diffuser from highly shock resistant polycarbonate, resistance impact: 16 Nm
  - captive clips made from stainless steel
  - shock and earth-quake tested (by TÜV)
  - wide range of Permissible ambient temperature from -20°C to +40°C (50°C on request)
- "end-of-life switching-off system" i.e. at the end of its life a fluorescent tube is safely switched off
- best suitable for installation and maintenance purpose ensuring simultaneously a high safety of continuous operation
  - the diffuser is hinged on one side and can be suspended, the reflector can be suspended for quick mains connection and lamp inserting/replacement
  - quick and cost saving wiring in a continuous row installation thanks to a looping facility on one small end of the housing (special version)
- high flexibility and wide range of application thanks to a great variety of equipment
  - ATEX certification for gas and dust hazardous areas (ZONES 2 and 22)
  - with electronic ballast or low loss conventional ballast
  - for T16, T26 and T38 lamps
  - for outdoor application at high ambient temperatures, for high installation, as emergency illumination etc.
- excellent light distribution and glare limitation thanks to the diffuser with its technically optimized internal prisms



nD161/162...



II 3 G Ex nA nC IIC T3/T4

II 3 D Ex tD A22
T80-100°C

IP65



EC-Type Examination Certificate:

TÜV 00 ATEX 1541

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Ignition protection: nA / nA nC

Rated voltage: 230 V, 50Hz (VVG)

220 - 240 V AC/DC - 0 or 50/60Hz (EVG)

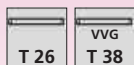
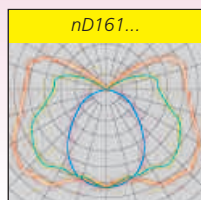
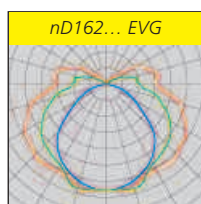
Marking:

II 3 G Ex nA nC IIC T3/T4 (Zone 2)

II 3 D Ex tD A22 IP65 T80-T100°C (Zone 22)

Permissible ambient temperature:

-20°C bis +40°C (50°C upon request).



Type	Article no.	Temp. cl./ Tmax °C	Lamps W	Weight ca. kg ²⁾
with low loss conventional ballast (VVG)				
nD161 118	16105 0001 ¹⁾	T3/100	1 x T38/20 / T26/18	2,3
nD161 136	16105 0005 ¹⁾	T3/100	1 x T38/40 / T26/36	3,4
nD161 158	16105 0009 ¹⁾	T3/100	1 x T38/65 / T26/58	4,3
nD162 218	16205 0001 ¹⁾	T3/100	2 x T38/20 / T26/18	3,7
nD162 236	16205 0005 ¹⁾	T3/100	2 x T38/40 / T26/36	5,5
nD162 258	16205 0009 ¹⁾	T3/100	2 x T38/65 / T26/58	7,4
with electronic ballast (EVG)				
nD161 118 EVG	16105 0013	T4/80	1 x T26/18W	1,9
nD161 136 EVG	16105 0014	T4/80	1 x T26/36W	2,8
nD161 158 EVG	16105 0015	T4/80	1 x T26/58W	3,3
nD162 218 EVG	16205 0013	T4/80	2 x T26/18W	2,8
nD162 236 EVG	16205 0014	T4/80	2 x T26/36W	4,3
nD162 258 EVG	16205 0015	T4/80	2 x T26/58W	5,5

1) Uncomp., article nos. for comp. see price list

2) Weights without packing material

NEW

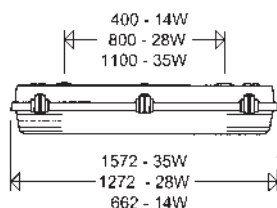
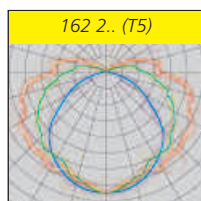
nD161/162... (T5)



II 3 G Ex nA nC IIC T3/T4

II 3 D Ex tD A22
T80-100°C

IP65



Type	Article no.	Temp. cl./ Tmax °C	Lamps W	Weight ca. kg
nD161 114	16105 0101	T3/100	1 x T16/14W	1,9
nD161 128	16105 0102	T3/100	1 x T16/28W	2,8
nD161 135	16105 0103	T3/100	1 x T16/35W	3,3
nD162 214	16205 0104	T3/100	2 x T16/14W	2,8
nD162 228	16205 0105	T3/100	2 x T16/28W	4,3
nD162 235	16205 0106	T3/100	2 x T16/35W	5,5

Note:

Suitable lamps:

- FM for high light output (14, 28, and 35W)
- Equivalent long-life lamps with a service life up to 60.000 hours (manufacturers data)



Further Series / Equipment

- with symmetrical or asymmetrical mirror-type reflectors (for electronic ballast-types only)
- wide housing with 1 lamp (Series nD162 1..)
- with through wiring up to 5 x 2,5 mm² PVC (always with earth conductor)
- with terminals up to 6mm²
- with alternative cable glands
- with monitoring module
- 2 entries at one end of the housing for looping the mains cable

- vertical mounting with lamp holder supports (not for Ø 38mm lamps)
- for outdoor application
- alternative voltages **VVG**: 220V, 60Hz or 240V, 50Hz
- for higher ambient temperatures to + 55°C
- emergency versions (Series nD 161/162.../..)

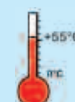




Photo: BASF

Mounting material

Pipe clamps 183 RO... P



Pipe clamps 183 RO... A P



Ceiling brackets 183 DS



Continuous row installation and through wiring system are available.

Rotary-type mirror systems and wire guards are available. Please consult us.

Accessories / Spare Parts

Type	Article no.	Type	Article no.
Spare covers for nD161/162...			
161 018 PC	16111 9003	162 018 PC	16211 9003
161 036 PC	16111 9004	162 036 PC	16211 9004
161 058 PC	16111 9005	162 058 PC	16211 9005
Type	Article no..		
161 018 PC SC	16111 9012	162 018 PC SC	16211 9014
161 036 PC SC	16111 9013	162 036 PC SC	16211 9015
161 058 PC SC	16111 9014	162 058 PC SC	16211 9016
Latches			
KK	90053 9000	plastic	
KE	90055 9000	stainless steel	
KES	90055 9001	security clip stainless steel	
Cable entries			
2531	90120 9000	Ex-plastic cable gland, M20 x 1,5	
2533	90122 9000	Ex-plastic cable gland with plug, M20 x 1,5	
Lamp holders			
190/1	90056 9001	lamp holder (as until 2004)	
161/1 T130	90056 9004	lamp holder (as from 2004)	
161 T5 Ex	90056 9010	lamp holder T5	
183/1	90057 9000	starter holder	
For pipe clamp mounting system			
Attention: When using pipe clamps for any bracket mounting please consider mounting distances.			
183 RO 112 P	90091 0002	1 1/2", stainless steel clip (1 pair)	
183 RO 2 P	90092 0002	2", stainless steel clip (1 pair)	
183 RO 112H P	90226 0002	1 1/2", stainless steel with retaining clip (1 pair)	
183 RO 2H P	90227 0002	2", stainless steel with retaining clip (1 pair)	
183 RO 112A P	90093 0002	1 1/2", stainless steel, with support (1 pair)	
183 RO 2A P	90094 0002	2", stainless steel, with support (1 pair)	
For rope suspension			
183 R	90051 0001	eye bolt M5, stainless steel	
K16 V	90048 0001	chain 1 m long	
Accessories for ceiling mounting			
183 DS	90095 0001	stainless steel bracket, with screw M5	
183 S	90049 0002	hook for chain suspension	

NEW

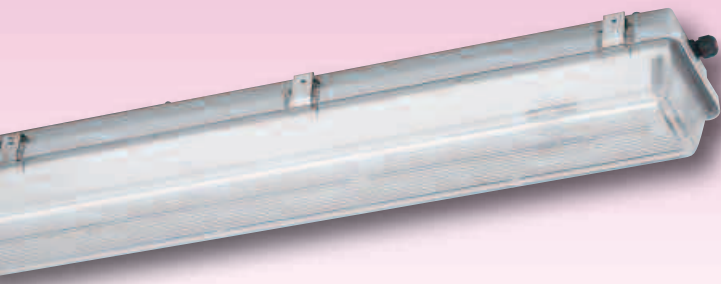


photo BASF

Explosion-proof
Light Fittings Zone 2/22



photo BASF



Explosion-Protected Polyester Emergency Light Fitting for Zones 2 and 22 with Self-Contained Battery Unit Series nD161/162...

Applications:

Hazardous areas of zones 2 and 22 for illuminating escape routes acc. to DIN VDE 0108.

Mechanical design:

Housing: Glass fibre reinforced polyester resin; EPDM gasket.

Cover: Injected clear polycarbonate with internal prisms.

Closure: Stainless steel clips (KE), one of them as safety clip (KES), to be opened with screwdriver only. Stainless steel hinges (SC) on the opposite side.

Reflector: Suspendable, white powder coated sheet steel, carrying the electrical

components.

Connection: 4 poles up to 2,5mm².

Cable entries: 2 entries M20 (2 glands - one of them is plugged).

Through wiring system:

Up to 6 x 2,5mm².

Standard: Horizontal, facing downwards or forwards.

Mechanical installation:

There are closed knock-outs in the housing for direct ceiling mounting. Sealing gaskets can be found inside the light fitting.

(Mounting accessories see spare parts/accessories.

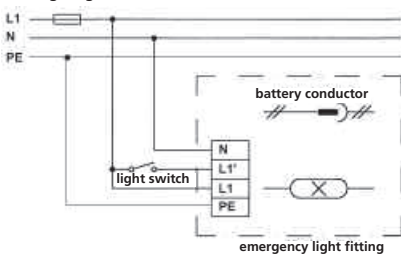
Shock tested:

1 x 18/36W	RK 4,0/40B
1 x 58W	RK 1,6/16A
162 2..	RK 2,5/25A

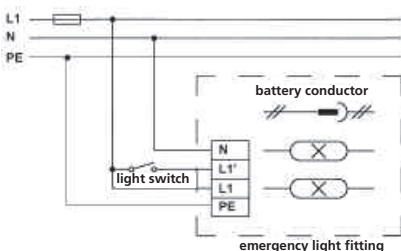
shock and earth-quake tested (by TÜV)

DB standardized by Deutsche Bahn AG

Wiring diagram (maintained) nD161..., nD162 1..



Wiring diagram (maintained) nD162 2..

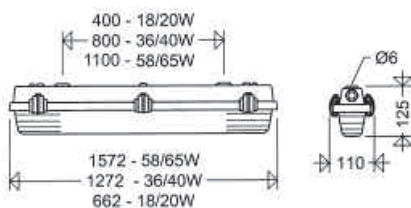


Starting: Connect battery conductor.

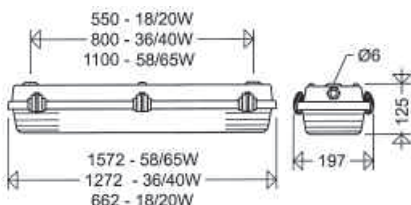
Out-of-operation: separate battery conductor.

Stand-by operation: Do not connect L1'.

Series nD 161...



Series nD 162...



Electrical design:

Incorporated NiCd battery set which is kept ready for operation through continuous conservation charging.

Monitoring:

Automatic monitoring of the emergency fitting with weekly function and annual duration test according to EN 62034. LED inside the fitting showing the test result.

Ambient temperature:

0°C up to +30°C (maintained operation)

0°C up to +40°C types nD161 1.. (stand by) or types nD162 1..

Electronic deep discharge protection with re-switch locking system.

Recharging time:

24 hours, according to EN 60598-2-22.

Connection voltage: 220-240V, 50-60Hz

Modes of operation:

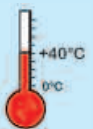
Maintained operation = Change-over to battery operation in case of mains failure.

Stand-by operation = emergency operation in case of mains failure.

Schuch Quality - your advantage:

In addition to the outstanding advantages of the basic version (series nD161.../nD162...) the emergency version does offer additional advantages:

- reliable, fail-safe and long-lasting due to low integration level (separate electronic ballast and separate emergency electronic device)
- operation in maintained, switched maintained or stand-by mode possible
- multifunctional LED with coded indication of the functions, states and potential faults of the electronic device and the battery
- automatic weekly function test
- automatic annual duration test
- manual actuation of function and duration test is possible
- easy battery replacement due to connector
- for ambient temperatures from 0°C to + 40°C
- one sided loop-in/loop-out or integrated through-wiring system can be offered for all wattages





EC-Type Examination Certificate:

TÜV 00 ATEX 1541

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 3 G Ex nA nC IIC T4 (Zone 2)

II 3 D Ex tD A22 IP65 T80°C (Zone 22)

Ignition protection: nA nC

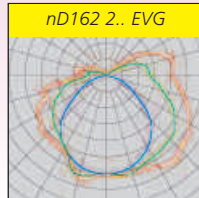
Amissible ambient temperature:

0°C up to +30°C or

0°C up to +40°C (nD162 1..)

Rated voltage/frequency:

220-240V AC, 50/60Hz



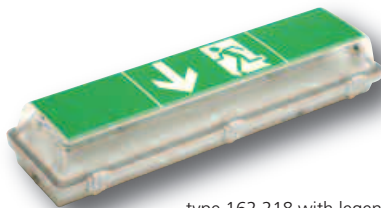
Types	Article nos.	Lamps W	Flux factor ¹⁾ appr. %	Weight ²⁾ ca. kg
1 hour operation - with electronic ballast (EVG)				
nD161 136/22/1 EVG	16107 0101	1 x 36W	22	3,6
nD161 158/17/1 EVG	16107 0102	1 x 58W	17	4,1
nD162 118/35/1 EVG	16207 0101	1 x 18W	35	3,6
nD162 136/22/1 EVG	16207 0102	1 x 36W	22	5,5
nD162 158/17/1 EVG	16207 0103	1 x 58W	17	6,3
nD162 218/35/1 EVG	16207 0104	2 x 18W	35	3,6
nD162 236/22/1 EVG	16207 0105	2 x 36W	22	5,3
nD162 258/17/1 EVG	16207 0106	2 x 58W	17	6,3

3 hour operation - with electronic ballast (EVG)

nD161 136/10/3 EVG	16107 0103	1 x 36W	10	3,9
nD161 158/07/3 EVG	16107 0104	1 x 58W	7	4,1
nD162 118/20/3 EVG	16207 0107	1 x 18W	20	3,9
nD162 136/10/3 EVG	16207 0108	1 x 36W	10	5,6
nD162 218/20/3 EVG	16207 0109	2 x 18W	20	3,6
nD162 236/10/3 EVG	16207 0110	2 x 36W	10	5,6
nD162 258/07/3 EVG	16207 0111	2 x 58W	7	6,4

1) Ratio effective lamp flux/nominal flux

2) Weights without packing material



type 162 218 with legend

Note:

All accessories and spare parts can be found under series nD 161/162...

When ordering any electronic components please indicate the type no. /production date of the luminaire.

Self-adhesive legends for light fittings of type nD 162 118 and nD 162 218... for escape route illumination can be ordered as follows:



590/125/33 W



../34 W



../35 W

Self-adhesive legends

for marking emergency ways acc. to VGB 125 and DIN 4844.

Sighting distance acc. to EN 1838 and DIN 4844 = 25m.

**Further Series / Equipment**

- .../B

stand-by system = emergency lighting in case of mains failure only (series 162... with 1 lamp = 1621..)

- halogen-free

- silicone-free

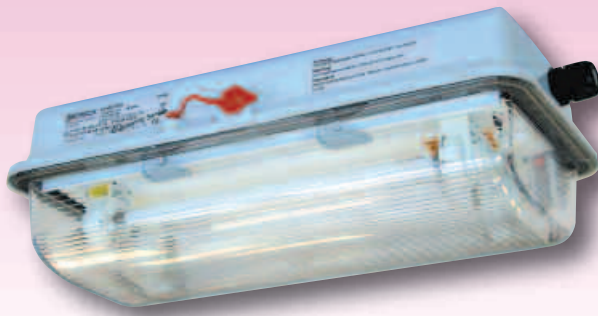
- with through wiring system up to 5 x 2,5 mm²

- 2 entries at one end of the housing for looping the mains cable (instead of through wiring system)

- for outdoor application

NEW

Small Explosion-Protected Light Fittings Zones 2 and 22 Series nD849...



Application:

Hazardous areas in Zones 2 and 22 as standard illumination or as information lighting (with pictogram) or as central battery emergency lighting.

Design:

Housing: Glass fibre reinforced polyester resin.

Diffuser: Clear polycarbonate with internal prisms, hinged and detachable.

Gasket: EPDM

Reflector: White painted sheet steel, hinged and detachable.

Central locking system: Operated by a hexagonal box spanner 13mm.

Circuit: Twin-channel electronic ballast with "end-of life" protection.

Connection terminals: Standard: L1+N+PE; up to 2.5 mm².

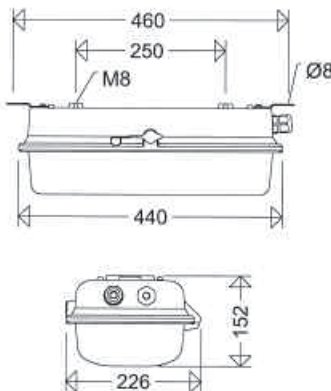
Cable entries: 2 entries M25 x 1.5 (2 cable glands, 1 with blanking plug enclosed).

Through wiring: Standard with looping of mains cable at one end 3 x 2.5mm² (5 wire optional).

Mounting: Side fixing brackets allow direct mounting on to walls or ceilings.

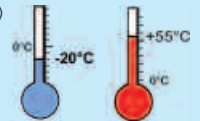
Note:

Special versions available for special application requirements such as in humid atmospheres, wastewater and rainwater reservoirs, water treatment plants, etc.



Schuch Quality - your advantage:

- robust design of high chemical resistance for application in rough industrial conditions:
  - glass fibre reinforced polyester housing
  - impact resistant polycarbonate diffuser (uniform wall thickness: 2,5mm)
  - extremely resistant, dimensionally stable EPDM gasket which guarantees a permanently safe ingress protection
- reliable, fail-safe and long-life thanks to a special explosion-protected electronic ballast (EVG) with high grade quality features:
  - "end-of-life protection" 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)
  - standard twin-channel with separate lamp monitoring
- easy installation and maintenance with built-in safety
  - Original SCHUCH central locking system with hinged diffuser for easy lamp replacement
  - easily accessible connection chamber behind the hinged reflector
- wide range of application and flexibility for a variety of environmental conditions
  - certified for use in potentially explosive gas and dust atmospheres (zones 2 and 22)
  - permissible ambient temperature range from -20°C to +55°C
  - single-end IN-OUT wiring
- excellent light distribution and glare limitation thanks to an optimized prismatic diffuser



nD849...



II 3 G Ex nA IIC T4

II 3 D Ex tD A22 T80°C

IP66



Approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 3 G Ex nA IIC T4

(Zone 2)

II 3 D Ex tD A22 IP66¹⁾ T80°C

(Zone 22)

Permissible ambient temperature:

-20°C up to +55°C

Rated voltage:

220-240V AC/DC,

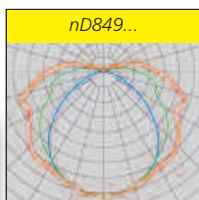
0 or 50-60Hz.



Type	Article no.	Temp. cl./ Tmax °C	Lamps W	Weight ca. kg
nD849 108	84900 0001	T4	1 x T16/8W	3,9
nD849 208	84900 0002	T4	2 x T16/8W	4,0

1) If breathers are used, possible reduction of ingress protection to IP64

2) Weights without packing material



Cable looping at one end:

All light fittings of series e849... have 2 cable entries M25 x 2.5 on the connection end of the housing, thus allowing a more economical cable looping at one end instead of the classical through wiring system (surcharge for 5-pole version).



Further Series / Equipment

- with alternative cable glands
- with monitoring module for individual monitoring of the light fittings connected to group or central battery systems
- emergency light version (series **nD848...**)
- for Zone 21 lighting for dust Ex areas (series **tD847...**)
- version for Zone 22 lighting for dust Ex areas (series **tD849...**)
- version for Zone 1/ 21 lighting (series **e845...**)
- version for Zone 1/ 21 emergency lighting (series **e846...**)
- non-hazardous version

Mounting accessories

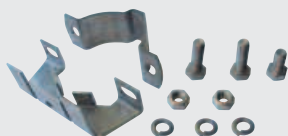
Suspension bracket H8V P



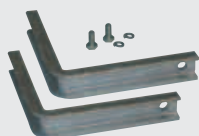
Ceiling bracket 15A P



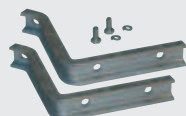
Pipe clamp RO84... A



Wall bracket W26 P



Wall bracket W26/45 P



Self-adhesive pictograms for identification of escape routes acc. to VGB 125 and DIN 4844.



121/33 W



..34



..35

Recognition distance acc. to EN 1838 and DIN 4844 = 25m.

Further Series / Equipment

Type	Article no.	
Spare diffuser		
845	84501 9001	spare diffuser PC
Cable entries / Glands / Breathers		
2537	90117 9000	ex- plastic cable gland M20 x 1.5
2538	90118 9000	ex- plastic cable gland M25 x 1.5
KLIMASTUTZEN EX	90259 9000	M25 x 1,5 ex-breather
Lamp holder		
847/1 T130	90056 9009	lamp holder
Mounting accessories		
H8V P	90001 0002	2 suspension bracket with screws M8, stainless steel
15A P	90000 0002	2 ceiling brackets, hot galvanized steel
15AV P	90032 0002	2 ceiling brackets, stainless steel
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 brackets, galvanized steel
W 26/30 P	26000 0002	2 wall brackets 30°, galvanized steel
W 26/45 P	26000 0003	2 wall brackets 45°, galvanized steel
Self-adhesive pictogram		
121/33 W	12112 0006	emergency EXIT, left
121/34 W	12112 0007	emergency EXIT, right
121/35 W	12112 0008	emergency EXIT, down

NEW

Compact Explosion-Protected Emergency Light Fitting with Self-Contained Battery Unit Series nD848...



Application:

Hazardous areas in Zones 2 and 22 as safety illumination and as information or escape route lighting.

Mechanical design:

Housing and battery box: Glass fibre reinforced polyester.

Diffuser: Clear polycarbonate with internal prisms, hinged and detachable.

Reflector: White painted sheet steel, hinged and removable.

Central locking system: Operated by a hexagonal box spanner 13mm.

Connection terminals: Standard: L1+N+PE; up to 2.5 mm².

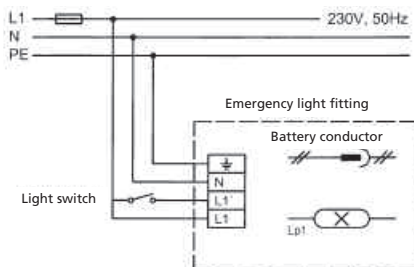
Cable entries: 2 entries M25 x 1.5 (2 cable glands, 1 with blanking plug enclosed).

Through wiring: Standard with looping of mains cable at one end 3 x 2.5mm² (6-wire optional).

Mounting: Side fixing brackets allow direct mounting on to walls or ceilings.

Note:

Special versions available for extreme conditions (wastewater and rainwater reservoirs, water treatment plants) – Please consult us.

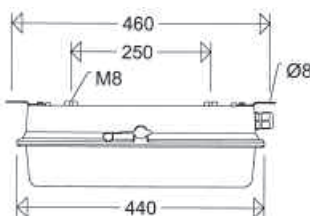


Commissioning: Connect battery

Decommissioning: Disconnect battery

Lamp: Lights in mains operation and in battery mode on mains failure

Stand-by mode: do not connect L11



SCHUCH Quality – your advantage:

- reliable, fail-safe and long-life thanks to a low component integration (separate EVG and emergency automatic)
  - operation on maintained mode, switched maintained mode and stand-by mode possible
  - weekly automatic function test
  - annual automatic operating-time test
  - manual function and operating-time tests possible at anytime
  - easy battery replacement with plug connection
- for use in ambient temperatures from 0°C to + 30°C



nD848...



II 3 G Ex nA IIC T4

II 3 D Ex tD A22 T80°C

IP66



for bi-pin fluorescent tube 8W, socket G5

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 3 G Ex nA IIC T4 (Zone 2)

II 3 D Ex tD A22 IP66 1) T80°C (Zone 22)

Permissible ambient temperature:

0°C up to +30°C

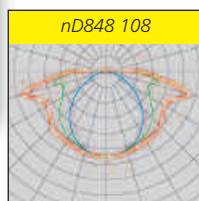
Rated Voltage: 220-240V AC, 50-60Hz.



Types	Article nos.	Lamps W	Flux factor ²⁾ appr. %	Weight ca. kg ³⁾
nD848 108/65/1	84800 0001	1 x T16/8W	65	4,0
nD848 108/40/3	84800 0002	1 x T16/8W	40	4,0

1) If breathers are used, possible reduction of ingress protection to IP64

2) Ratio effective lamp flux to rated current
3) Weights without packing material



Looping the cable on one end:

All light fittings of series nD848... have 2 cable entries M25 x 1.5 on the connection end of the housing, thus allowing a more economical cable looping at one end instead of the classical through wiring system (surcharge for 5-pole version).



Further Series / Equipment

– .../B stand-by mode = emergency lighting in case of mains failure only

Mounting accessories

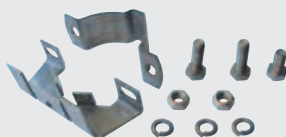
Suspension bracket H8V P



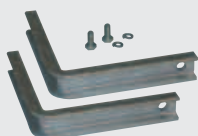
Ceiling bracket 15A P



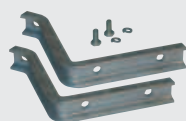
Pipe clamp RO84... A



Wall bracket W26 P



Wall bracket W26/45 P



Available upon request:

Self-adhesive legends for marking escape routes acc. to VGB 125 and DIN 4844.



121/33 W



../34



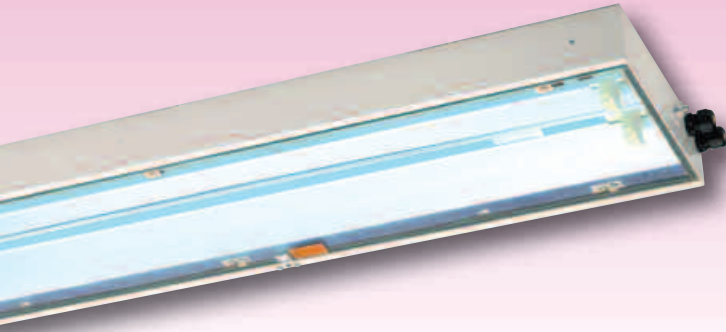
../35

Sighting distance acc. to EN 1838 and DIN 4844 = 25m.

Further Series / Equipment

Type	Article no.	
Spare diffuser		
845	84501 9001	spare diffuser PC
Cable entries / Glands / Breathers		
2537	90117 9000	ex- plastic cable gland M20 x 1.5
2538	90118 9000	ex- plastic cable gland M25 x 1.5
KLIMASTUTZEN EX	90259 9000	M25 x 1,5 ex-breather
Lamp holder		
847/1 T130	90056 9009	lamp holder
Mounting accessories		
H8V P	90001 0002	2 suspension bracket with screws M8, stainless steel
15A P	90000 0002	2 ceiling brackets, hot galvanized steel
15AV P	90032 0002	2 ceiling brackets, stainless steel
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 brackets, galvanized steel
W 26/30 P	26000 0002	2 wall brackets 30°, galvanized steel
W 26/45 P	26000 0003	2 wall brackets 45°, galvanized steel
Self-adhesive pictogram		
121/33 W	12112 0006	emergency EXIT, left
121/34 W	12112 0007	emergency EXIT, right
121/35 W	12112 0008	emergency EXIT, down

Explosion-Protected Sheet Steel Light Fitting Zones 2, 22 Series nD191/192...



Applications:

Areas with explosive atmospheres of Zones 2, 22, preferably in paint shops, paint-spray lines 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, inner hinges on the opposite side.

Wiring: Electronic ballast.

Connection terminals:

Standard: L1 + N + PE, up to 2,5mm² (up to 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.

Note:

Ask for stainless steel versions in case of permanent humidity or corrosive atmosphere presence
When switched off the light fittings must not be exposed to an a.t. of more than +85°C.

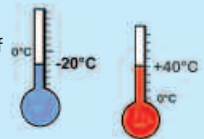
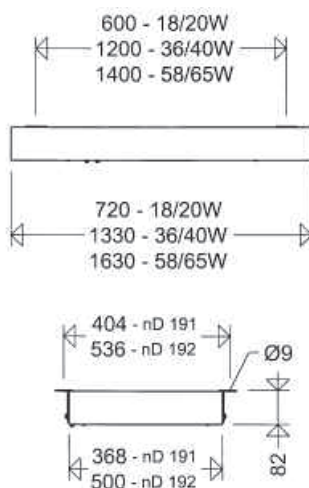
Special versions available for extreme conditions (short cycle operation, e.g. rain storage reservoirs or wastewater treatment plants and equivalent)
Type E1003 to be selected (see attachment).

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
- **easy to install and maintain, safety implemented**
  - Original SCHUCH central locking system with hingeable safety glass pane for easy lamp replacement
- **wide range of application and flexibility at most different environmental conditions**
  - for ceiling mount or recessed mount in suspended ceilings
  - separate frame for recessed installation can be installed at a later stage (modular concept). Thus, 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 (optional)**



nD191/192...



II 3 G Ex nA IIC T4

II 3 D Ex tD A22 T80°C

IP65

Ignition protection:

nA (Betriebsmittel für Zone 2)

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 3 G Ex nA II T4 (Zone 2)

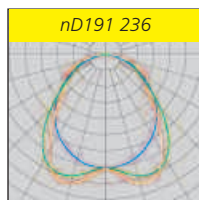
II 3 D Ex tD A22 IP 65 T80°C (Zone 22)

Rated voltage/frequency:

220-240V AC/DC, 0 bzw. 50/60Hz.

Admissible ambient temperature:

-20°C bis +40°C

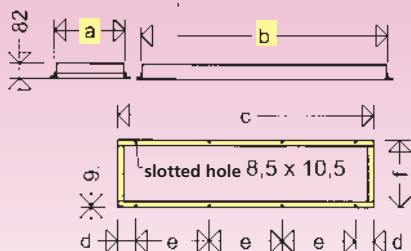


Type	Article no.	Temp. class	Lamps W	Weight ca. kg
narrow housing				
nD191 118 EVG	19102 0001	T4	1 x T 26/18 W	7,4
nD191 218 EVG	19102 0002	T4	2 x T 26/18 W	7,4
nD191 136 EVG	19102 0003	T4	1 x T 26/36 W	13,8
nD191 236 EVG	19102 0004	T4	2 x T 26/36 W	13,8
nD191 158 EVG	19102 0005	T4	1 x T 26/58 W	17,2
nD191 258 EVG	19102 0006	T4	2 x T 26/58 W	17,2
wide housing				
nD192 318 EVG	19102 0201	T4	3 x T 26/18 W	16,0
nD192 418 EVG	19102 0202	T4	4 x T 26/18 W	16,0
nD192 336 EVG	19102 0203	T4	3 x T 26/36 W	22,3
nD192 436 EVG	19102 0204	T4	4 x T 26/36 W	22,3
nD192 358 EVG	19102 0205	T4	3 x T 26/58 W	25,7
nD192 458 EVG	19102 0206	T4	4 x T 26/58 W	25,7

Looping the cable on one side:

All light fittings of series nD191/192... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.

Dimensions for recessed mounting



types	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: When planning the opening for recess installation please allow additional clearance for the cable glands.

Frame for Recessed Installation

retrofit possible!

Light fittings of series nD191/192.. 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.	
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:

In your inquiry / order please indicate for which type of ceiling the light fitting will be used.
For certain types of ceilings the cable glands must be re-positioned to the backside of the housing.



Explosion-proof
Light Fittings Zone 2/22



Further Series / Equipment

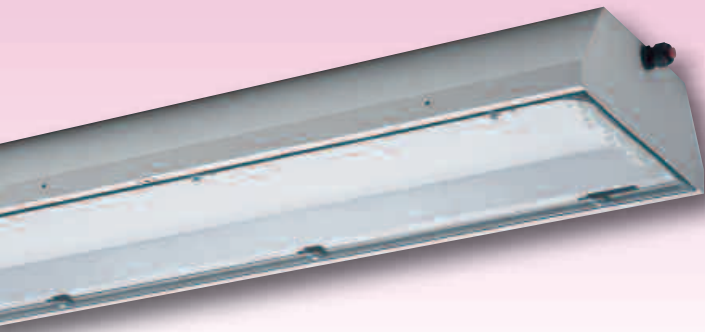
- up to 4 cable entries
- different cable glands
- through wiring system up to 5 x 6.0mm²
- with 2 individual electronic ballasts and monitoring module for individual monitoring the light fitting connected to central or group battery systems
- with isolating switch
- stainless steel housing, powder coated
- silicone free version
- zone 1-version (series e191/192...)
- non explosion-protected versions (series 191/192...) as dust- and waterproof version

Accessories / Spare Parts

Type	Article no.	
spare glasses		
182 18-1	18090 9004	spare glass for narrow housing - 1 and 2 x 18W
182 36-1	18090 9005	spare glass for narrow housing - 1 and 2 x 36W
182 58-1	18090 9006	spare glass for narrow housing - 1 and 2 x 58W
192 18-1	19190 9003	spare glass for wide housing - 3 and 4 x 18W
192 36-1	19190 9004	spare glass for wide housing - 3 and 4 x 36W
192 58-1	19190 9005	spare glass for wide housing - 3 and 4 x 58W
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
Lamp holder		
182/1 T140	90056 9005	plug-socket holder

Through wiring systems are available.

Explosion-Protected Light Fitting with Tapered Sheet Steel Body for Zones 2 and 22 Series nD181/182...

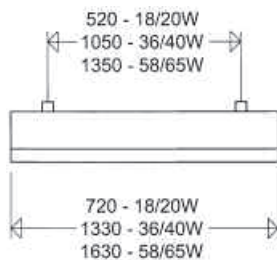


Note:

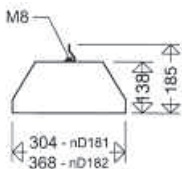
For installation in humid and corrosive atmospheres please select light fittings with housings in stainless steel.
When switched off the light fittings must not be exposed to an a.t. of more than +85°C

NEW

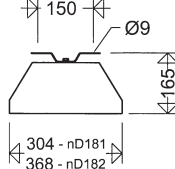
DB standardized by Deutsche Bahn AG



Suspension hooks H8V



Ceiling brackets 15A



Applications:

Areas with explosive atmospheres of Zones 2, 22, preferably in paint shops, paint-spray lines and spray booths.

Design:

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

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, inner hinges on the opposite side.

Wiring: Electronic ballast.

Connection terminals: Standard: L1 + N + PE up to 2,5mm².

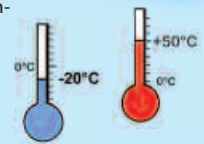
Cable entries: 3 entries M25 x 1,5 (2 glands, 1 of them with plug and 1 screw plug) LOOP-IN/OUT possible, for some versions temperature resistant cable is required

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: Suspension hooks (**H8V P**) or ceiling brackets (**15A P**), at extra charge (see accessories)

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 made from galvanized steel and high-grade aluminium hinges
- easy to install and maintain, safety implemented
  - Original SCHUCH central locking system with hingeable safety glass pane for easy lamp replacement
  - easily accessible connection compartment via hingeable reflector
- wide range of application and flexibility at most different environmental conditions
  - for gas and dust hazardous areas (Zones 2 and 22)
  - wide range of Permissible ambient temperatures -20°C up to +40/50°C
  - separate frame for recessed installation and a swivel arm mounting system can be installed at a later stage. A high flexibility of application combined with economic storing is guaranteed
  - looping system on one side of the housing; bilateral through wiring system (on request)



nD181/182...



II 3 G Ex nA IIC T4

II 3 D Ex tD A22 T80°C

IP65



Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Ignition protection: nA

Marking:

II 3 G Ex nA IIC T4 (Zone 2)

II 3 D Ex tD A22 IP65 T80°C (Zone 22)

Permissible ambient temperature:

-20°C to +40/50°C (1 or 2 lamps)

-20°C to +40°C (3 or 4 lamps)

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



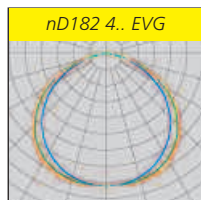
Type	Article no.	Temp. class	Lamps W	Weight ca. kg

narrow housing

nD181 118 EVG	18001 0001	T4	1 x T 26/18W	9,6
nD181 218 EVG	18001 0002	T4	2 x T 26/18W	10,1
nD181 318 EVG	18001 0007	T4	3 x T 26/18W	10,7
nD181 136 EVG	18001 0003	T4	1 x T 26/36W	17,3
nD181 236 EVG	18001 0004	T4	2 x T 26/36W	17,3
nD181 336 EVG	18001 0008	T4	3 x T 26/36W	16,9
nD181 158 EVG	18001 0005	T4	1 x T 26/58W	20,1
nD181 258 EVG	18001 0006	T4	2 x T 26/58W	20,1
nD181 358 EVG	18001 0009	T4	3 x T 26/58W	21,6

wide housing

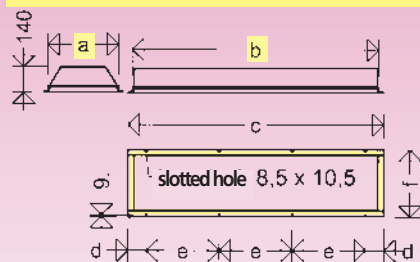
nD182 318 EVG	18001 0201	T4	3 x T 26/18W	10,0
nD182 418 EVG	18001 0202	T4	4 x T 26/18W	14,0
nD182 336 EVG	18001 0203	T4	3 x T 26/36W	16,8
nD182 436 EVG	18001 0204	T4	4 x T 26/36W	16,8
nD182 358 EVG	18001 0205	T4	3 x T 26/58W	27,0
nD182 458 EVG	18001 0206	T4	4 x T 26/58W	27,0



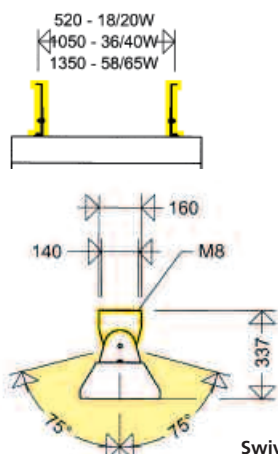
Looping the cable on one side:

All light fittings of series e187/188.. have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.

Dimensions of recessed installation



	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



Swivel range 150°

Frame for Recessed Installation

retrofit possible!

Light fittings of series nD181/182.. can be equipped with a frame even at a later stage.

Mounting by means of M5 bolts to the long sides of the housing (see drawing).

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

Swivel Arm Mounting System

retrofit possible!

Light fittings of series nD181/182.. can be equipped with a swivel arm mounting system at any time.

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).

Type	Article no.	
SWA 181 / 182	18092 0001	for all wattages consisting of: 2 swivel arms with bolts M8



Further Series / Equipment

- up to 4 cable entries
- different cable glands
- through wiring system up to 6 x 6.0mm²
- connecting terminal up to 6.0mm²
- with 2 individual electronic ballasts and monitoring module for individual monitoring the light fitting connected to central or group battery systems
- with isolating switch
- stainless steel housing, powder coated
- silicone free version
- zone 1-version (series e181/182...)
- non explosion-protected versions (series 181/182...) as dust- and waterproof version
- for high ambient temperatures please contact us

Mounting material

Suspension hooks H8V P



Ceiling brackets 15A P

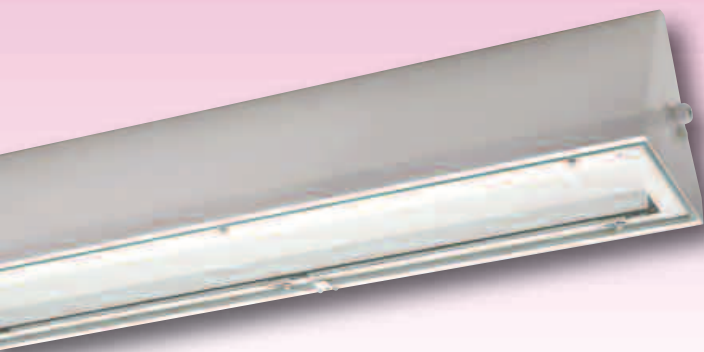


Further accessories as well as carrier rail systems and through wiring system are available.

Accessories / Spare Parts

Type	Article no.	
Spare glasses panes		
18118-1	18090 9001	for narrow housings, 1, 2 und 3 x 18W
18136-1	18090 9002	for narrow housings, 1, 2 und 3 x 36W
18158-1	18090 9003	for narrow housings, 1, 2 und 3 x 58W
18218-1	18090 9004	for wide housings, 3 und 4 x 18W
18236-1	18090 9005	for wide housings, 3 und 4 x 36W
18258-1	18090 9006	for wide housings, 3 und 4 x 58W
Cable entries		
2537	90117 9000	explosion-protected cable gland M25 x 1,5
2539	90119 9000	explosion-protected cable gland with plug (M25 x 1,5)
2538	90118 9000	explosion-protected plug M25 x 1,5
Mounting material		
H8V P	90001 0002	2 suspension hooks with bold M8, stainless steel
15A P	90000 0002	2 ceiling brackets, steel hot galvanized
15AV P	90032 0002	2 ceiling brackets, stainless steel
WD 45 P	26000 0005	2 wall / ceiling angles 45°, steel
Lamp holder		
182/1 T140	90056 9005	ex-proof snap-type/plug-socket holder

Explosion-Protected Sheet Steel Light Fitting for Dust Hazardous Areas of Zone 22 Series nD187/188...



Applications:

Dust hazardous areas of zone 2 and zone 22

Design:

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

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.

Wiring: Eletronic ballast.

Connecting terminal: Standard L1 + N +PE, up to 2,5mm² max. (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

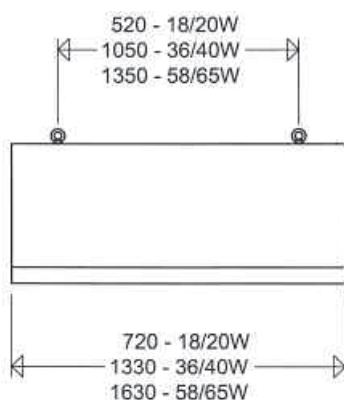
Through wiring system: 5 x 2,5mm² through wiring or preparation for 5-pole LOOP-IN/OUT at extra charge

Mounting: Horizontal, with 2 eyebolts (included).

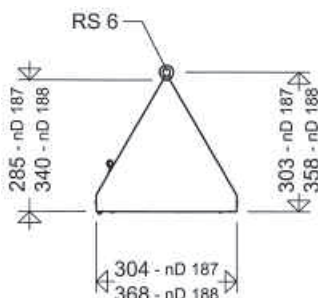
Note:

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

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

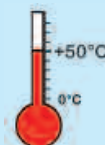


Eyebolt RS 6



Schuch Quality - your advantage:

- sturdy design of high chemical resistance for application in rough industrial conditions:**
  - housing in a special dust repellent design, made from powder coated sheet steel or upon request from stainless steel
  - frameless safety glass pane
  - solid central locking system made from galvanized steel and high-grade stainless steel hinges
- easy to install and maintain, safety implemented**
  - suspension mount by means of chains or steel cables
  - Original SCHUCH central locking system with hingeable safety glass pane for easy lamp replacement
  - easily accessible connection compartment via hingeable reflector
- wide range of application and flexibility at most different environmental conditions**
  - for gas and dust hazardous areas (Zones 2 and 22)
  - wide range of Permissible ambient temperatures -20°C up to +40/50°C
  - especially for application in dusty atmospheres, due to special dust repellent design (zone 22)
  - looping system on one side of the housing; bilateral through wiring system (on request)



nD187/188...



II 3 G Ex nA IIC T4

II 3 D Ex tD A22 T80°C

IP65



Certificates:

GOST-R/ROSTECH-NADZOR (Russia)

Ignition protection: nA

Marking:

II 3 G Ex nA IIC T4 (Zone 2)

II 3 D Ex tD A22 IP65 T80°C (Zone 22)

Permissible ambient temperature:

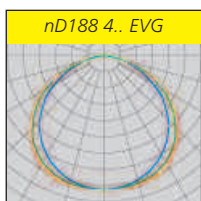
-20°C to +40/50°C (1 or 2 lamps)

-20°C to +40°C (3 or 4 lamps)

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



Type	Article no.:	Temp. class	Lamps W	Weight ca. kg
narrow housing				
nD187 118 EVG	18701 0001	T4	1 x T 26/18W	10,0
nD187 218 EVG	18701 0002	T4	2 x T 26/18W	10,0
nD187 318 EVG	18701 0003	T4	3 x T 26/18W	10,2
nD187 136 EVG	18701 0004	T4	1 x T 26/36W	17,0
nD187 236 EVG	18701 0005	T4	2 x T 26/36W	17,0
nD187 336 EVG	18701 0006	T4	3 x T 26/36W	17,2
nD187 158 EVG	18701 0007	T4	1 x T 26/58W	21,0
nD187 258 EVG	18701 0008	T4	2 x T 26/58W	21,0
nD187 358 EVG	18701 0009	T4	3 x T 26/58W	21,2
wide housing				
nD188 318 EVG	18701 0201	T4	3 x T 26/18W	15,0
nD188 418 EVG	18701 0202	T4	4 x T 26/18W	15,0
nD188 336 EVG	18701 0203	T4	3 x T 26/36W	22,0
nD188 436 EVG	18701 0204	T4	4 x T 26/36W	22,0
nD188 358 EVG	18701 0205	T4	3 x T 26/58W	27,0
nD188 458 EVG	18701 0206	T4	4 x T 26/58W	27,0



Looping the cable on one side:

All light fittings of series nD187/188.. have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.



Further Series / Equipment

- up to 4 cable entries
- various types of glands
- with through wiring system up to 6 x 6,0mm²
- with looping the mains cable at one end
- with 2 individual electronic ballasts and monitoring device for individual monitoring the light fitting connected to central or group battery systems
- connecting terminals up to 6.0 mm²
- stainless steel housing, powder coated
- silicone-free version
- zone 1 version (series e187/188...)
- non explosion proof version (series 187/188..., see water-/dust-proof fittings in catalogue)
- with isolating switch



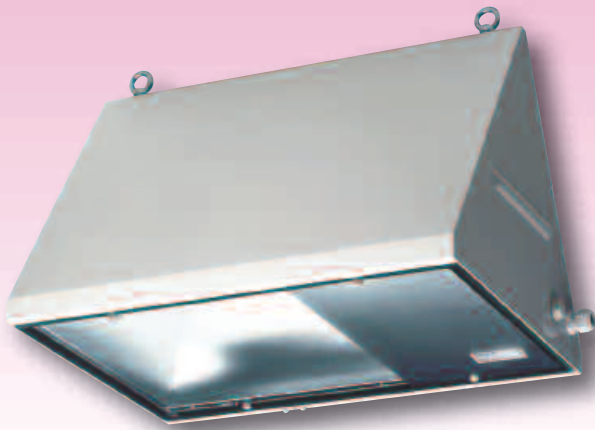
Explosion-proof
Light Fittings Zone 2/22

Accessories / Spare Parts

Type	Article no.	
Spare glass panes		
181 18-1	18090 9001	for narrow housings, 1, 2 und 3 x 18W
181 36-1	18090 9002	for narrow housings, 1, 2 und 3 x 36W
181 58-1	18090 9003	for narrow housings, 1, 2 und 3 x 58W
182 18-1	18090 9004	for wide housings, 3 und 4 x 18W
182 36-1	18090 9005	for wide housings, 3 und 4 x 36W
182 58-1	18090 9006	for wide housings, 3 und 4 x 58W
Cable entries		
2537	90117 9000	explosion-protected cable gland M25 x 1,5
2539	90119 9000	explosion-protected cable gland with plug (M25 x 1,5)
2538	90118 9000	explosion-protected plug M25 x 1,5
Lamp holder		
182/1 T140	90056 9005	ex-proof snap-type/plug-socket holder

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

Explosion-Protected Compact Sheet Steel Light Fitting for Zone 2 and Zone 22 Series nD3084...



Applications:

Hazardous locations, of Zones 2 (gas atmosphere) and 22 (dust atmosphere), production halls and warehouses, in industrial sectors, workshops and chemical factories etc..

Design:

Housing: Sheet steel powder coated in light grey (RAL 7035); operating components built in. Stainless steel housing upon request and at extra charge.

Reflector: Surface finished purest aluminium.

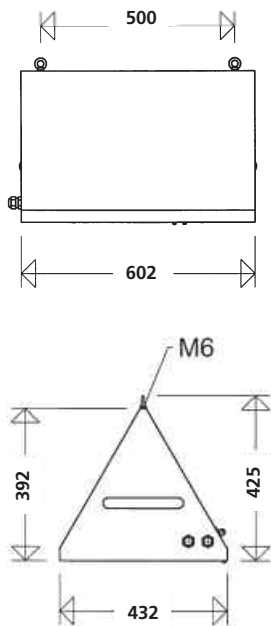
Glass cover: Frameless safety glass pane, hinged.

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

Connection: 3-pole terminal up to 2,5mm² (up to 6mm² upon request)

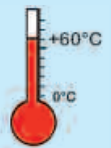
Cable entry: 1 cable gland and 1 plug M25 x 1,5 on one side of the housing.

Mounting: Pendant with 2 eyebolts M6 (incl.).



SCHUCH Quality - your advantage:

- **robust industrial model for reliable long-term use**
  - robust sheet steel housing with high grade powder coating for excellent corrosion protection (stainless steel version upon request)
  - frameless, 5mm safety glass pane
  - sturdy central locking system with internal stainless steel hinges
- **easy to install and to maintain**
  - suspension mount by means of chains or steel cables
  - Original SCHUCH central locking system with hinged safety glass pane, for easy connection and lamp replacement and for easy access to connection compartment
- **optimized mirror system with a high degree of light efficiency**
- **for applications in different ambient conditions**
  - for various types of lamps (ellipsoid, tubular shaped and induction lamps)
  - for gas and dust hazardous areas (Zones 2 and 22)
  - wide range of Permissible ambient temperatures -20°C up to +50°C (special version up to +60°C)
  - especially suited for dust atmospheres due to special dust repellent design (Zone 22)



nD3084...



II 3 G Ex nR IIC T3/T4

II 3 D Ex tD A22 T130-170°C

IP65



TÜV 05 ATEX 2723

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Ignition protection: nR

Marking:

II 3 G Ex nR IIC T3/T4 (Zone 2)

II 3 D Ex tD A22 IP65 T130-170°C (Zone 22)

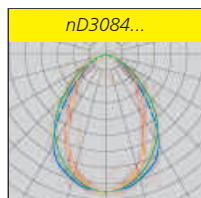
Permissible ambient temperature:

-20°C up to +50°C/60°C

(special version up to +60°C)

Rated voltage:

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



Type	Article no.	Temp.-cl./ T _{max}	Adm. amb. t.	Lamps W	Weight ca. kg ²⁾
for tungsten halogene lamps socket E40					
nD3084/500 QT	30842 0014	T4/130	40°C	QT 500	10,5
for high pressure lamps, socket E40					
nD3084/250	30842 0001 ¹⁾	T4/130	50°C	HME 250	14,1
nD3084/400	30842 0003 ¹⁾	T3/160	50°C	HME 400	16,3
nD3084/250 HI	30842 0005 ¹⁾	T4/130	50°C	HIE/HIT 250	14,2
nD3084/400 HI	30842 0007 ¹⁾	T3/170	50°C	HIE/HIT 400	16,4
nD3084/250 HS	30842 0011 ¹⁾	T4/130	50°C	HSE/HST 250	16,0
nD3084/400 HS	30842 0009 ¹⁾	T3/160	50°C	HSE/HST 400	16,4

1) Uncomp., article nos. for comp. see price list

2) weights without packing material

Advantages of the induction-type lighting system "ENDURA":

- extremely long life (60,000 hrs)
- flicker-free instant start within < 0.1 sec., suitable as emergency illumination
- high luminous flux (12.000lm) beside high efficiency (80lm/W)
- high quality colour reproduction Ra > 80
- none-flickering light output due to high frequency pulsing > 250kHz
- instant reignition with almost full light output
- constantly high luminous flux over a large range of mains voltage, suitable for D.C. voltage
- low luminous flux decline during life cycle
- low ignition temperature and constantly high luminous flux over a wide temperature range, suitable for low temperatures at outdoor areas, down to -30°C / -40°C
- maintenance-free

nD3084... ENDURA



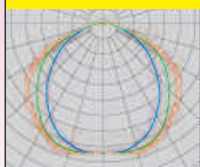
II 3 G Ex nR II T4

II 3 D Ex tD A22 T80°C

IP65



nD3084/150 ENDURA



Applications:

Especially at places which are not easily accessible and where a lamp replacement may be a costly matter or if generally long maintenance intervals are wanted for cost saving

Permissible ambient temperature:

-30°C up to +40°C

Rated voltage:

220-240V AC, 154... 276V DC
0 or 50/60Hz.

Type	Article no.	Temp.-cl./ T _{max}	Adm. amb. t.	Lamps W	Weight ca. kg ¹⁾
nD3084/150 ENDURA	30842 0013	T4/80	40°C	LMT-SIHF 150	12,5

1) Weights without packing material.

nD3084... H60



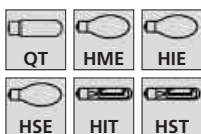
II 3 G Ex nR II T3/T4

II 3 D Ex tD A22 T130-165°C

IP65



for ambient temperatures up to +60°C



Type	Article no.	Temp.-cl./ T _{max}	Adm. amb. t.	Lamps W	Weight ca. kg ³⁾
for tungsten halogen lamps, socket E40					
nD3084/300 QT H60 ²⁾	30842 0115	T4/130	60°C	QT 300	10,5
nD3084/500 QT H60	30842 0114	T3/160	60°C	QT 500	10,5

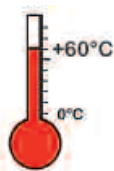
for high pressure lamps, socket E40

nD3084/250 H60	30842 0101 ¹⁾	T3/140	60°C	HME 250	14,0
nD3084/250 HI H60	30842 0105 ¹⁾	T3/140	60°C	HIE/HIT 250	16,0
nD3084/250 HS H60	30842 0111 ¹⁾	T3/140	60°C	HSE/HST 250	16,0

1) Uncomp., art. nos. for comp. see price list

2) Rated voltage 120V AC/DC

3) Weights without packing material.



Further Series / Equipment

- with stainless steel housing, powder coated
- with terminals up to 6 mm², 5poles
- with cable entries M20 x 1,5



Accessories / Spare Parts

Type	Article no.	
3070/010	90073 9000	spare glass pane clip closure system (until March 2005)
3070/011	90073 9003	spare glass pane for central locking system (starting April 2005)
2537	90117 9000	ex-proof plastic cable gland M25 x 1,5
2538	90118 9000	ex-proof plug M25 x 1,5

Explosion-Protected Plane Surface Floodlight for Lamps up to 500W - for Zones 2 and 22 Series nD7573...



Applications:

Hazardous locations of Zones 2 (gas atmosphere) and 22 (dust atmosphere), stockyards, building sites, open-air grounds, chemical and petrochemical areas etc..

Technical Design:

Housing: Silumin sheet powder coated in light grey (RAL 7035), locking device in stainless steel, all gear inside the light fitting, wired ready for connection.

Glass pane: Toughened safety glass pane, can be hinged and detached for lamp replacement, silicone rubber gasket.

Reflector: Optimized reflector system made from surface refined purest aluminium.

Connection: 3 poles terminal up to 2,5mm².

Cable entry: 1 cable gland M20 x 1,5. For some versions heat resistant connection cable is required.

Mounting systems:

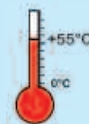
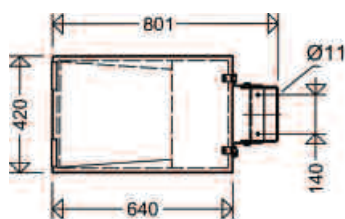
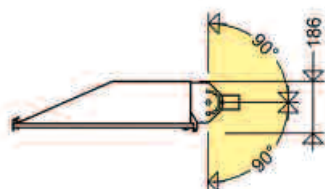
- **Mounting to a cross arm:** Bracket with 3 borings of 11mm Ø (standard)
- **Mounting to pole** of 76mm Ø or 60mm Ø in combination with a pipe clamp. (Clamp to be ordered together with the luminaire for deciding the right bracket - see accessories.)

Installation:

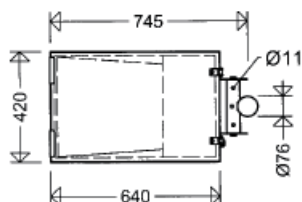
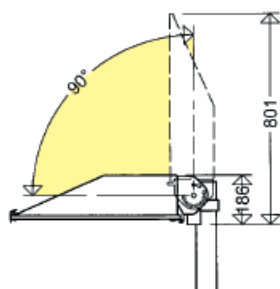
Facing downwards horizontally or tilted upwards in a 90° angle.

Schuch Quality – your advantage:

- sturdy, high quality surface floodlight for reliable long-term use
- compact design, with all electrical components ready for connection
- high-efficient light technical optimized mirror system with high light efficiency factor
- excellent light distribution, glare limitation and minimized stray
- easy to install
  - universal mounting possibilities
- high flexibility and wide range of application
  - ATEX-certification for gas and dust hazardous areas (Zones 2 and 22)
  - for ambient temperatures from -20°C up to +55°C
  - for lamps 150 - 500W



Swivel range of bracket: ±90°, stepless



Swivel range independent from method of mounting – up to 90° tilted upwards.

nD7573...



II 3 G Ex nR IIC T3/T4

II 3 D Ex tD A22 T110-180°C

IP65



0,5m

EC-Type Examination Certificate:

TUV 05 ATEX 2724

Other approvals:

GOST-R/ROSTECH-NADZOR (Russia)

Marking:

II 3 G Ex nR II T3/T4 (Zone 2)

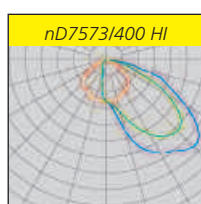
II 3 D Ex tD A22 IP65 T110-180°C (Zone 22)

Ignition protection: nR

Permissible ambient temperature:

-20°C up to +55°C, depending on version

Rated voltage: 120V, 220-240V AC/DC, 0 or 50/60Hz, depending on version



for tungsten halogen, socket E40

nD7573/300 QT ²⁾	75731 0020	T4/130	55°C	QT 300	11,7
nD7573/500 QT	75731 0019	T3/180	55°C	QT 500 ⁴⁾	11,7

for high pressure lamps, tubular shape, socket E40

nD7573/250 HI	75731 0001 ¹⁾	T3/170	55°C	HIT 250	14,0
nD7573/400 HI	75731 0003 ¹⁾	T3/160	40°C	HIT 400	14,0
nD7573/150 HS	75731 0015 ¹⁾	T4/120	50°C ³⁾	HST 150	11,6
nD7573/250 HS	75731 0017 ¹⁾	T4/130	40°C ³⁾	HST 250	11,8
nD7573/400 HS	75731 0005 ¹⁾	T3/160	40°C	HST 400	15,1

1) Uncomp.; art. no. for comp. see price list

2) Rated voltage 120V AC/DC

3) Version for UT +50°C or +55°C upon request

4) IDE von PHILIPS

5) Weights without packing material



Further Series / Equipment

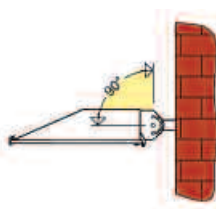
- for higher ambient temperatures
- with 5-pole terminal
- with cable entry M25 x 1,5



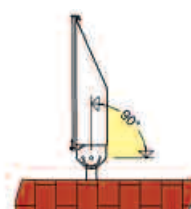
Photo BASF

Explosion-proof
Light Fittings Zone 2/22

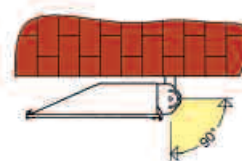
Mounting:



Wall mounting

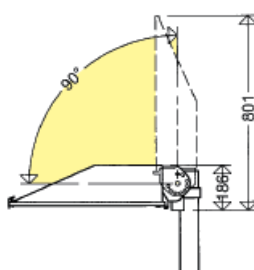


Floor mounting



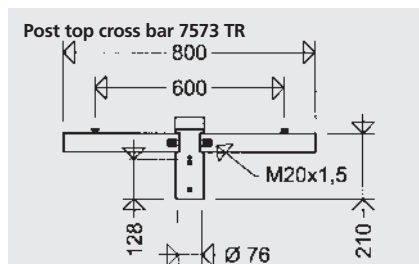
Ceiling mounting

Mounting to a pole or cross bar by means of pipe clamp RO 60/76



Accessories / Spare Parts

Type	Article no.	
7501	75001 9001	Spare glass
2537	90117 9000	Ex-proof plastic gland M25 x 1,5
7573 TR	75739 0002	post top cross bar 7573 TR with accessories for mounting 2 floodlights to a pole of Ø76mm
RO 60/76	90270 0003	pipe clamp for pole Ø60-76mm
RO 60/76 + SWB	90270 0004	pipe clamp with swivel bracket for pole Ø 60-76mm (only necessary when ordered separately at a later stage!)



Floodlight for Lamps up to 500W for Zones 2 and 22 Series nD 2770/2780



Applications:

Hazardous areas of Zones 2 and 22 classification.

Design:

Housing and glass retaining frame are made from weather resistant diecast aluminium, powder coated in black (RAL 9005 mat). The glass frame is locked by 2 socket head cap screws (M6) and it is hinged to body after opening. The electrical components are located inside the floodlight.

Reflector: Depolished purest aluminium.

Front cover: Thermal toughened safety glass glued into the frame.

Connection terminal: Standard: 3 poles for max. 2,5mm² conductor Ø.

Cable entry: 2xM20 x 1,5 (1 gland and 1 plug) or 2 glands upon request.

For some versions heat resistant connection cable is required.

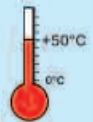
Operating position: Lamp orientation horizontal.

Installation:

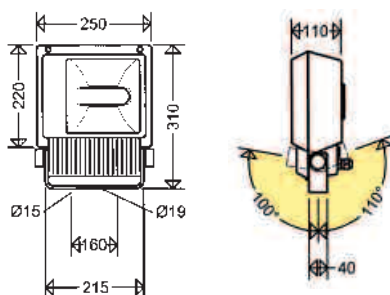
Aluminium stirrup that can be tilted infinitely around the longitudinal axis of the floodlight. Max. range of tilting please see diagrams.

Schuch Quality - your advantage:

- sturdy, high-grade floodlight for reliable and safe long-term use
- compact design, with all electrical components ready for connection
- high-efficient light technical optimized mirror system with high light efficiency factor
- excellent light distribution, glare limitation and minimized stray
- easy to install and to maintain
  - suitable for gas- and dust-hazardous areas (Zone 2 and 22)
  - wide range of Permissible ambient temperatures -20°C up to +50°C
  - for lamps from 80 W up to 500 W



Series nD 2770...



nD2770...



II 3 G Ex nR IIC T3/T4

II 3 D Ex tD A22 T150-200°C

IP66/67



~0,5m

up to 150W, low bay / high bay version

Ignition protection: nR

Marking:

II 3 G Ex nR IIC T3/T4

(Zone 2)

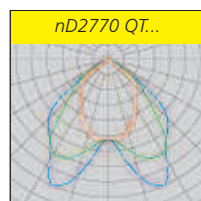
II 3 D Ex tD A22 IP66/67 T130-200°C (Zone 22)

Permissible ambient temperature:

-30°C up to +40°C or up to +50°C

Rated voltage: 220V up to 240V AC,

0 or 50/60 Hz



Type	Article no.	Temp. class/ max.surface temp.	admiss. amb. temp.	Lamps W	Weight ca. kg

for tungsten halogen lamps up to 150W, socket E27

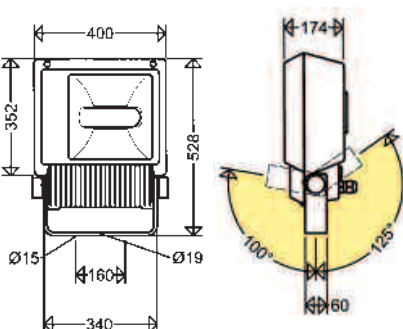
nD2770/100 QT	27702 0001	T3/160°C	50°C	1 x QT 100	3,5
nD2770/150 QT	27702 0003	T3/180°C	50°C	1 x QT 150	3,5

for discharge lamps up to 125W, socket E27

nD2770/80	27702 0005 ¹⁾	T3/170°C ²⁾	50°C	1 x HME 80	4,8
nD2770/125	27702 0007 ¹⁾	T3/200°C	40°C	1 x HME 125	4,8

1) Uncomp., article nos. for comp. see price list 2) Temp. class T4 upon request

Series nD 2780...



nD2780...



II 3 G Ex nR IIC T3/T4

II 3 D Ex tD A22 T130-190°C

IP66/67



~0,5m

up to 500W, low bay version

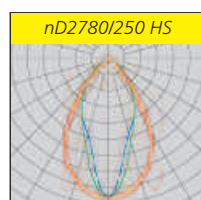
Ignition protection, ambient temperature and rated voltage same as for nD2770...

Marking:

II 3 G Ex nR IIC T3/T4

(Zone 2)

II 3 D Ex tD A22 IP66/67 T130-190°C (Zone 22)



Type	Article no.	Temp. class/ max.surface temp.	admiss. amb. temp.	Lamps W	Weight ca. kg ⁵⁾

for tungsten halogen lamps up to 500W, socket E27 or E40

nD2780/250 QT ⁴⁾	27802 0001	T3/150°C ²⁾	50°C	1 x QT 250	7,6
nD2780/500 QT	27802 0003	T3/190°C	40°C	1 x QT 500 ³⁾	7,6

for discharge lamps up to 400W, socket E40

nD2780/150 HS	27802 0005 ¹⁾	T4/130°C	40°C	1 x HST 150	8,2
nD2780/250 HS	27802 0007 ¹⁾	T3/170°C	50°C	1 x HST 250	12,1
nD2780/400 HS	27802 0009 ¹⁾	T3/190°C	40°C	1 x HST 400	14,9
nD2780/250 HI	27802 0011 ¹⁾	T3/170°C ²⁾	50°C	1 x HIT 250	12,1
nD2780/400 HI	27802 0013 ¹⁾	T3/190°C	40°C	1 x HIT 400	12,1

1) Uncomp., article nos. for comp. see price list

2) Temp. class T4 upon request

3) IDE der Fa. Philips

4) for tungsten halogen lamps

5) Weights without packing material



Photo: BASF



Further series / Equipment

- with connection terminals up to 6mm²
(series nD2780 only)

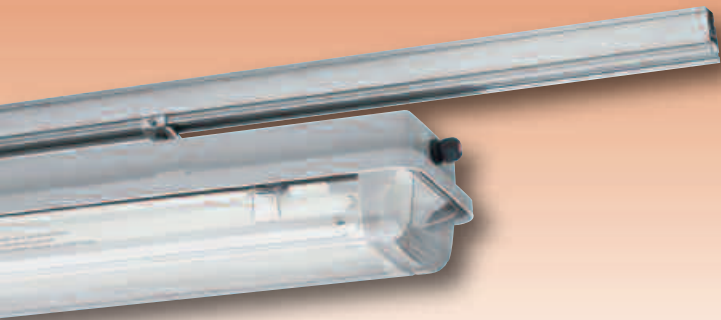
- with wire guard



nD2780... with wire guard

Accessories / Spare Parts

Type	Article no.	Product
2780 SG	27801 9001	wire guard
27700	27701 9000	spare glass with frame for nD 2770
27800	27801 9000	spare glass with frame for nD 2780
2587	90120 9002	ex-proof brass gland M20 x 1,5
2589	90121 9002	ex-proof brass plug M20 x 1,5



Aluminium Carrier Rails for Continuous Row Installation Series TRS 2000

Applications:

For rows of light fittings suspended from the ceiling, allowing an easy installation and assembly.

Design:

Aluminium profiled carrier rails (TRS 2000/AL) Lengths: 2, 3 or 5 m. Series TRS 2000 additional covering strips (TRS A) 1 or 2 m.

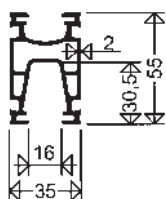
Mounting accessories:

For each length of a light fitting only one suspension point is required.
Connection brackets (TRS V) - to be ordered separately - allow joining the individual rails up to any length wanted.

The carrier rails can either be mounted directly to the ceiling by means of the ceiling brackets (TRS ED/183A) or they can be suspended from the ceiling by means of the hook (TRS ER/183H) in combination with the chain (KP40/K16V).

Perlon pendulums are not suitable for this purpose.

2 or 3 devices (TRS EL/183L) serve for mounting a light fitting to the rail. The suspension devices (TRS ED/183A) and (TRS ER/183H) as well as the device (TRS EL/183L) are movable in the longitudinal direction of the rails.



TRS V



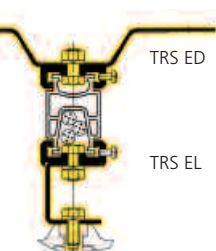
TRS A

TRS A

TRS A



TRS ER



TRS ED

TRS EL

TRS EL

TRS 2000...

aluminium carrier rails (for series e152, e148, e/nD 181/182)

Schuch Quality - your advantage:

- Universal quick-action mounting system for explosion- and weather-proof light fittings
- easy to install (mount the suspension devices to the light fitting, then push the light fitting into the carrier rail profile)
- higher load capacity due to new profile design
- inserting the mains cable into the cable channel is possible
- a cover strip serves as a protection against dirt deposit

Type	Article no.	Product	Weight ca. kg
TRS 2000 2 M	90260 0001	Aluminium-rail 2 m long	3,0
TRS 2000 3 M	90260 0002	Aluminium-rail 3 m long	4,6
TRS 2000 5 M	90260 0003	Aluminium-rail 5 m long	7,6
TRSA 1	90265 0005	covering strip, 1 m long	0,4
TRSA 2	90265 0006	covering strip, 2 m long	0,7

Mounting Devices

Type	Article no.	Product
TRS V	90265 0004	device (profile) for rail connection
TRS ED	90265 0008	ceiling bracket for mounting the rail
KP 40	90022 0001	chain 1 m long with 2 eyelets for fastening and length compensation
TRS ER	90265 0007	stainless steel ring nut for chain
TRS EL	90265 0009	luminaire mounting system complete (1pair)

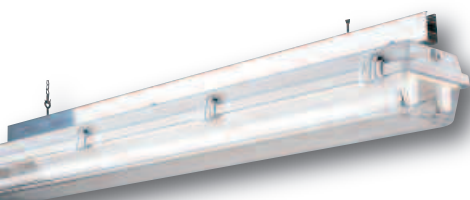
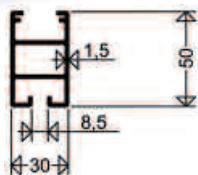
AL...

aluminium carrier rails (for series nD 161/162)

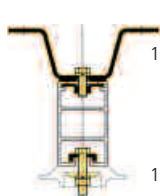
Type	Article no.	Product	Weight ca. kg
2 M AL	90005 0001	Alu rail 2 m long	1,6
3 M AL	90005 0002	Alu rail 3 m long	2,4
5 M AL	90005 0003	Alu rail 5 m long	3,9

Mounting Devices

Type	Article no.	Product
TRS V	90265 0004	device for rail connection
183 A	90185 0001	ceiling bracket for ceiling mounting of the carrier rail
K 16 V	90048 0001	chain 1 m long with 2 eyelets for fastening and length compensation
183 H	90049 0001	hook for chain pendulum
183 L	90050 0001	luminaire mounting system complete



183 H

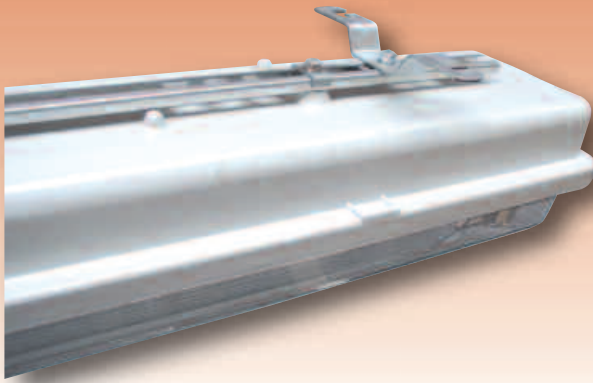


183 A

183 L

183 L

Mounting Rail for Variable Mounting Distances Series MS...



Applications:

Where there is a need for variable mounting distances if the fixed mounting distance of series e152... does not match the on site mounting positions (e.g. exchange / replacement of fittings from other manufacturers)

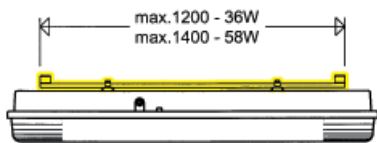
Design:

Galvanized c-rail, available in 1200mm (36W) and 1400mm (58W) with 2 sliding nuts incl. bolts M8, 2 u-shaped brackets with bolts M8 for mounting the light fitting.

Mounting:

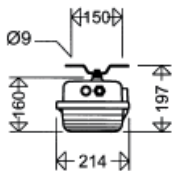
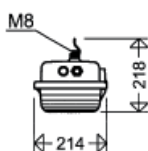
Suspension mount: Directly to the sliding nuts or to 2 suspension hooks (H8V)

Ceiling mount: By means of ceiling brackets (15A), see accessories.



with ceiling bracket
15A

with suspension hook
H8 V



MS..

for series e152... and e148...

Type	Article no.		Weight ca. kg
MS 36	90096 9000	for e152../ 36W	0,65
MS 58	90096 9001	for e152../ 58W	0,8

Mounting material

Type	Article no.	
H8V P	90001 0002	2 suspension hooks with bold M8, stainless steel
15A P	90000 0002	2 ceiling brackets, galvanised steel

Through wiring System for Explosion-protected Light Fittings

For all fittings installed in a continuous row. Through-wiring system with 2 multi-pole terminals which are fixed inside the light fitting.

(Since retrofitting the through-wiring system on site is subject to special regulations in regard to hazardous areas, we do recommend a factory-made through-wiring system.)

Through wiring systems:

2.5mm² up to 16A

4.0mm² up to 20A

6.0mm²

(depending on the Permissible ambient temperature of the light fitting).

Note:

With the "variable cable entries" most of our explosion-protected fluorescent fittings are well suited for **looping the cable at one** end of the fitting. This allows a perfect adaptation to the local conditions and moreover **in many cases this spares the classic through-wiring system.**
– Please contact us for details in regard to explosion-protected fittings with looping system.

Factory-made through-wiring system

Our explosion-protected light fittings of Zone 1/21 and Zone 2/22 with factory-made through-wiring systems will be delivered with the standard through-wiring system 5x2.5mm² PVC of 6x2.5mm² PVC (emergency fittings Zone1/21). Fittings with such standard through-wiring do have separate part numbers (see price list).

Example: Series e152.. EVG

Type	Article no.	Through wiring system
e152 62 EVG	15200 0006	without through-wiring system
e152 62 EVG DV	15200 1006	with standard through-wiring system 5 x 2,5mm ² PVC

(Through-wiring systems with other cable-cross sections (e.g. 4mm²) or different number of conductors (e.g. 3x2.5mm²) are available.)

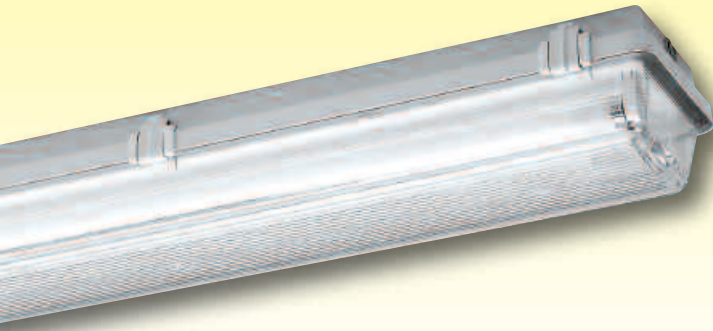
Through-wiring system for retrofit

Type	Article-No	
for ex-proof light fittings zone 1		
DV/NS Zo1/36	11501 0010	5 x 2,5mm ² PVC, for 36W - luminaires (series e152...)
DV/NS Zo1/58	11501 0012	5 x 2,5mm ² PVC, for 58W - luminaires (series e152...)
DV/NS ZO1/36 e181/2.	11501 0015	5 x 2,5mm ² PVC, for 36W - luminaires (series e181/182...)
DV/NS ZO1/58 e181/2.	11501 0016	5 x 2,5mm ² PVC, for 58W - luminaires (series e181/182...)
for ex-proof light fittings zone 2		
DV/NS Zo2	11891 0013	5 x 2,5mm ² PVC, all wattages (series n/nD 161/162...)

Through-wiring retrofit sets for other series or other cable cross sections are also available.



Dustproof/Waterproof Polyester Light Fitting with Diffuser - Insulation Class II Series 161/162...



Application:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks, basements, kitchens and civil defence premises, power stations, roofed outdoor areas, etc.

Aggressive atmospheres: Please consult us.

Design:

High-grade, robust, extremely stable and chemically resistant dust-/waterproof light fitting.

Housing: Glass fibre reinforced polyester resin, foamed polyurethane gasket.

Diffuser: Injected, clear acrylic glass with internal prisms or polycarbonate (PC)

Closure: Three-part captive plastic clips

(KK). - Stainless steel clips (KE) or a combination plastic/stainless steel (KC) or one-sided stainless steel hinges are also available at extra charge.

Reflector: Glass fibre reinforced polyester, can be suspended or removed and carries the electrical components, protected against accidental contact.

Connection: 2-pole terminal.

Cable entries: 2 plugs M20.

Through-wiring: up to 5 x 2,5mm² or looping the mains cable possible (at extra charge).

Mounting: Closed knock-outs for direct ceiling mounting (to be opened at site).

Rubber sealing washers inside each fitting.

Shock resistance test:

1 x 18/36 W RK 4,0/40 B

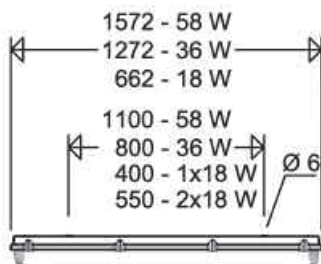
1 x 58 W RK 1,6/16 A

162 2.. RK 2,5/25 A

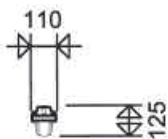
Earthquake-proof (tested by TÜV)

Note:

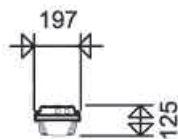
Unlike housings made from polycarbonate our housings made from glass fibre reinforced polyester are durable resistant against UV-radiation and chemical components. Consequently they are all-purpose and enduring safe for long-term use. This is of significant importance especially for industrial applications.



Series 161...

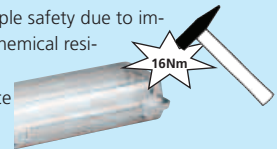
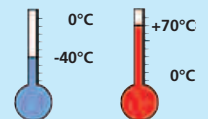
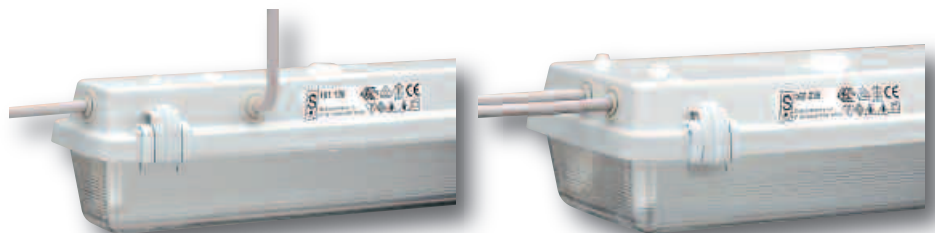


Series 162...

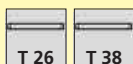
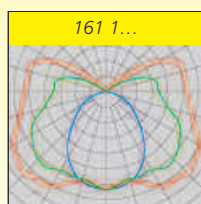
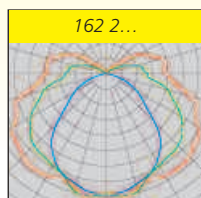
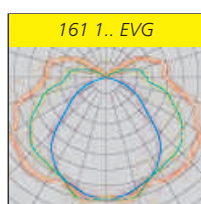
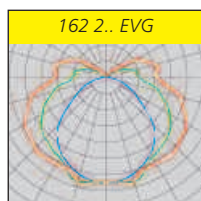


SCHUCH quality - Your advantage:

- high grade, robust, chemically resistant light fitting of an excellent quality; especially suitable for its application at a rough industrial environment:
  - housing made from glass fibre reinforced polyester resin of a high impact resistance (wall thickness: 2mm); outstanding chemical- and UV-resistance.
  - housing with 3 mounting points, especially suited for areas with a risk of shocks and vibrations e.g. power plants, boiler- or turbine rooms
  - injected PMMA diffuser of a high mechanical stability (quadruple safety due to impact resisting component. Wall thickness: 1,9mm). Excellent chemical resistance.
  - alternative: injected PC diffuser of a very high impact resistance (16 Nm) even at a high continuous temperature
  - shock tested and earth-quake proof
- best suitable for easy mounting and maintenance purpose with a high security of continuous operation:
  - tiltable cover allows a quick and easy lamp replacement without any tools
  - captive clips consisting of several components made from high grade plastic (standard) or stainless steel in case of aggressive ambient conditions (also available with hinges)
  - variable looping facility of the mains cable
- wide range of application and flexibility at most different environmental conditions thanks to quite a variety of equipment:
  - admissible ambient temperature of -40°C up to +70°C (versions T and H)
  - application in locations with increased fire risk (versions EVG and FF), in high installations (version ...S), in civil defence buildings (shock tested up to RK 2.5/25A), in areas subject to vibrations and impacts (shakeproof version), in hazardous areas of zones 2/22 (series n/ND 161/162...); available as emergency light fittings; in special version for outdoor installation (version AUS)
  - with PC cover with a special surface finish for applications in the food industry (version LM) according to the International Food Standard (IFS), as emergency and exit fitting and others.
  - DB** - standardized by Deutsche Bahn AG
  - lamps to be inserted: Fluorescent tubes Ø 16mm (series T5), Ø 26mm and Ø 38mm
- excellent light distribution and glare limitation thanks to a diffuser with light technically optimized internal prisms



2 cable entries at one side of the housing for cable looping upon request and at additional charge.



Type	Article no.	Lamps W	Weight ca. kg ²⁾

with acrylic diffuser, with low loss conventional ballast

161 118	16100 0016 ¹⁾	1 x T 26/18 W	2,0
161 136	16100 0010 ¹⁾	1 x T 26/36 W	3,3
161 158	16100 0013 ¹⁾	1 x T 26/58 W	3,6
162 218	16200 0010 ¹⁾	2 x T 26/18 W	2,5
162 236	16200 0013 ¹⁾	2 x T 26/36 W	4,5
162 258	16200 0016 ¹⁾	2 x T 26/58 W	6,3

with polycarbonate diffuser (PC), with low loss conventional ballast

161 118 PC	16100 0021 ¹⁾	1 x T 26/18 W	2,0
161 136 PC	16100 0024 ¹⁾	1 x T 26/36 W	3,3
161 158 PC	16100 0027 ¹⁾	1 x T 26/58 W	3,8
162 218 PC	16200 0067 ¹⁾	2 x T 26/18 W	2,6
162 236 PC	16200 0070 ¹⁾	2 x T 26/36 W	4,6
162 258 PC	16200 0073 ¹⁾	2 x T 26/58 W	6,4



with acrylic diffuser, with electronic ballast (EVG)

161 118 EVG	16100 0018	1 x T 26/18 W	1,5
161 136 EVG	16100 0019	1 x T 26/36 W	2,4
161 158 EVG	16100 0020	1 x T 26/58 W	3,0
162 218 EVG	16200 0055	2 x T 26/18 W	2,2
162 236 EVG	16200 0056	2 x T 26/36 W	4,0
162 258 EVG	16200 0057	2 x T 26/58 W	4,7

with polycarbonate diffuser (PC), with electronic ballast (EVG)

161 118 PC EVG	16100 0038	1 x T 26/18 W	1,6
161 136 PC EVG	16100 0039	1 x T 26/36 W	2,5
161 158 PC EVG	16100 0040	1 x T 26/58 W	3,2
162 218 PC EVG	16200 0142	2 x T 26/18 W	2,2
162 236 PC EVG	16200 0143	2 x T 26/36 W	4,0
162 258 PC EVG	16200 0144	2 x T 26/58 W	4,8

1) Uncomp.; article no. for comp. see price list 2) Weights without packing material



In Europe's most modern coal power stations „Lippendorf“, „Boxberg“, „Schwarze Pumpe“ etc. the excellent quality of SCHUCH dustproof / waterproof light fittings is well known. Out of series 161/162... more than 10.000 light fittings each are operating there in various versions and to the full satisfaction of the clients.

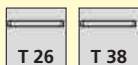
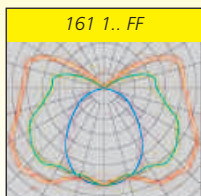
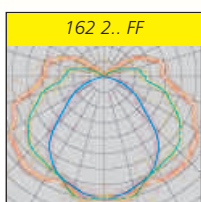
NEW

161/162... D

IP65



for rooms with increased fire risk (with low loss conventional ballast)



Application:

Rooms with increased fire risk due to deposits of combustible dust and fibrous

materials e.g. as required in VDE 0100 section 482.

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾
with acrylic diffuser			
161 118 D	16104 0037	1 x T 26/18 W	2,1
161 136 D	16104 0001	1 x T 26/36 W	3,6
161 158 D	16104 0004	1 x T 26/58 W	4,3
162 218 D	16204 0025	2 x T 26/18 W	3,0
162 236 D	16204 0013	2 x T 26/36 W	5,3
162 258 D	16204 0016	2 x T 26/58 W	7,5
with polycarbonate diffuser (PC)			
161 118 PC D	16104 0040	1 x T 26/18 W	2,3
161 136 PC D	16104 0007	1 x T 26/36 W	3,6
161 158 PC D	16104 0010	1 x T 26/58 W	4,4
162 218 PC D	16204 0028	2 x T 26/18 W	3,0
162 236 PC D	16204 0019	2 x T 26/36 W	5,3
162 258 PC D	16204 0022	2 x T 26/58 W	7,6

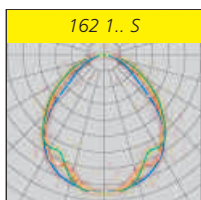
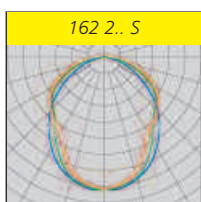
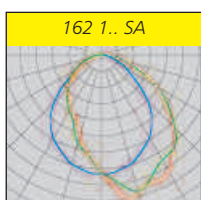
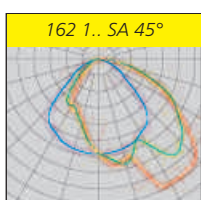
1) Uncomp.; article no. for comp. see price list

2) Weights without packing material

162... S.



with mirror-type reflector systems for installation in high rooms



Application:

Industrial halls, warehouses, illumination of shelves, warehouse areas and corridors with heights from 5 to 12 m, breweries, slaughter houses (upon special request).

Aggressive atmospheres: Please consult us.

Design:

Wide housing with surface refined symmetrical (S) or asymmetrical (SA) mirror type reflector made of purest aluminium with a high efficiency factor.

Type	Article no.	Lamps W	Weight ca. kg ²⁾
with symmetrical mirror-type reflector (S)			
162 118 S	16200 0085 ¹⁾	1 x T 26/18 W	2,8
162 136 S	16200 0094 ¹⁾	1 x T 26/36 W	4,8
162 158 S	16200 0112 ¹⁾	1 x T 26/58 W	5,8
162 218 S	16200 0091 ¹⁾	2 x T 26/18 W	2,7
162 236 S	16200 0100 ¹⁾	2 x T 26/36 W	4,9
162 258 S	16200 0103 ¹⁾	2 x T 26/58 W	6,7

... with electronic ballast (EVG)

162 118 S EVG	16200 0058	1 x T 26/18 W	2,2
162 136 S EVG	16200 0059	1 x T 26/36 W	4,1
162 158 S EVG	16200 0060	1 x T 26/58 W	5,0
162 218 S EVG	16200 0064	2 x T 26/18 W	2,3
162 236 S EVG	16200 0065	2 x T 26/36 W	4,3
162 258 S EVG	16200 0066	2 x T 26/58 W	5,1

with asymmetrical mirror-type reflector (SA)

162 118 SA	16200 0088 ¹⁾	1 x T 26/18 W	2,9
162 136 SA	16200 0097 ¹⁾	1 x T 26/36 W	4,8
162 158 SA	16200 0115 ¹⁾	1 x T 26/58 W	5,9

... with electronic ballast (EVG)

162 118 SA EVG	16200 0061	1 x T 26/18 W	2,3
162 136 SA EVG	16200 0062	1 x T 26/36 W	4,1
162 158 SA EVG	16200 0063	1 x T 26/58 W	5,1

1) Uncomp.; article no. for comp. see price list

2) Weights without packing material

Types 162 1... S



Types 162 2... S



asymmetrical mirror-type reflector on request

Types 162 1... SA



mirror-type reflector with 45° angle on request

Mirror-type reflectors also for H/T- and LM-versions available.

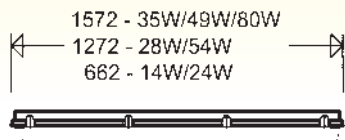
Note:

Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

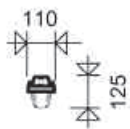
- FM for high light efficiency (14, 28, 35 W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C bis 70°C (24, 54, 80W)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.

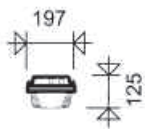
Also available with multiwatt ECG



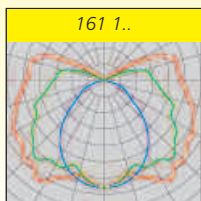
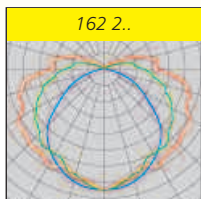
Series 161...



Series 162...

**161/162... (T5)**

for fluorescent tubes T5 (Ø 16mm)



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
with electronic ballast (EVG)			
161 114	16108 0001	1 x T 16/14 W	2,1
161 124	16108 0002	1 x T 16/24 W	2,1
161 128	16108 0003	1 x T 16/28 W	2,8
161 154	16108 0006	1 x T 16/54 W	2,8
161 135	16108 0004	1 x T 16/35 W	4,2
161 149	16108 0005	1 x T 16/49 W	4,2
161 180	16108 0007	1 x T 16/80 W	4,2
162 214	16208 0001	2 x T 16/14 W	2,6
162 224	16208 0002	2 x T 16/24 W	2,6
162 228	16208 0003	2 x T 16/28 W	5,0
162 254	16208 0006	2 x T 16/54 W	5,0
162 235	16208 0004	2 x T 16/35 W	6,2
162 249	16208 0005	2 x T 16/49 W	6,2
162 280	16208 0007	2 x T 16/80 W	6,2

1) Weights without packing material

161/162... S. (T5)

with high gloss mirror reflector for high rooms

Application:

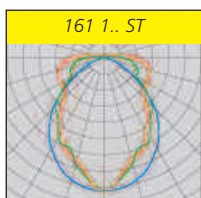
In rooms with a ceiling height of 5 - 12m.

Design:

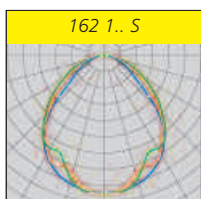
As standard versions T5 but with surface refined low bay (ST), symmetrical (S) or asymmetrical (SA) mirror type reflector made of purest aluminium with a high efficiency factor.



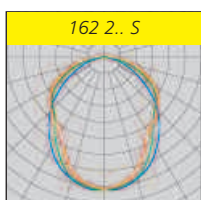
Series 161 1.. ST



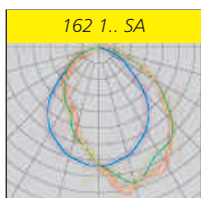
Series 162 1.. S



Series 162 2.. S



Series 162 1.. SA



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
with low bay mirror type reflector			
161 128 ST	16108 0053	1 x T 16/28 W	3,2
161 154 ST	16108 0054	1 x T 16/54 W	3,2
161 135 ST	16108 0055	1 x T 16/35 W	4,9
161 149 ST	16108 0056	1 x T 16/49 W	4,9
161 180 ST	16108 0057	1 x T 16/80 W	4,9
with symmetrical mirror type reflector, 1 lamp			
162 128 S	16208 0060	1 x T 16/28 W	4,6
162 154 S	16208 0061	1 x T 16/54 W	4,6
162 135 S	16208 0062	1 x T 16/35 W	6,1
162 149 S	16208 0063	1 x T 16/49 W	6,1
162 180 S	16208 0064	1 x T 16/80 W	6,1
with symmetrical mirror type reflector, 2 lamps			
162 228 S	16208 0067	2 x T 16/28 W	5,2
162 254 S	16208 0068	2 x T 16/54 W	5,2
162 235 S	16208 0069	2 x T 16/35 W	6,4
162 249 S	16208 0070	2 x T 16/49 W	6,4
162 280 S	16208 0071	2 x T 16/80 W	6,4
with asymmetrical mirror type reflector			
162 128 SA	16208 0053	1 x T 16/28 W	4,6
162 154 SA	16208 0054	1 x T 16/54 W	4,6
162 135 SA	16208 0055	1 x T 16/35 W	6,1
162 149 SA	16208 0056	1 x T 16/49 W	6,1
162 180 SA	16208 0057	1 x T 16/80 W	6,1

1) Weights without packing material

NEW

Note:

These light fittings are also available:

- for T5 fluorescent lamps (Ø 16mm)
- without special coating for the PC cover when no cleaning solvents are being used (version IFS)
- with special cover for extreme applications, e.g. cheese dairies (version HCR - high chemical resistance).



161/162... LM

for application in food industry areas



Application:

Food industrie, especially in critical areas of the food processing.

Design:

Same as type 161/162... but with a surface refined PC cover which is highly resistant against grease, aggressive cleaning agents, disinfectants and solvents (when ordering please consult with details on the agents). With stainless steel clips

(KE), stainless steel hinges (SC) and EPDM gasket

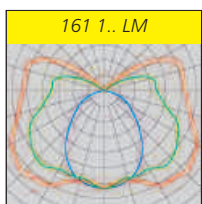
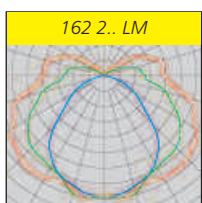
These fittings comply with the requirements of the „International Food Standard“ (IFS).

Fulfills the IFS-Standard

Advantages of the surface refined polycarbonate cover:

- shatterproof PC-cover with very high impact resistance (16Nm) even at a high continuous operating temperature
- highly resistant against grease and aggressive cleaning agents, disinfectants and solvents (tested amongst others with products from Ecolab, Wigol und Fink (for details please contact us.)
- optical clear coating
- abrasion and scratch resistant
- non-yellowing
- high light transmission
- food safe (tested by LGA Quali Test GmbH, ecologically tested)

These light fittings do comply in all respects with the requirements of the IFS (International Food Standard), the BRC (British Retail Consortium) and the hygienic requirements for machines and equipment in the sweet industry (VDMA).



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾
161 118 LM	16114 0001 ¹⁾	1 x T 26/18 W	2,1
161 136 LM	16114 0003 ¹⁾	1 x T 26/36 W	3,2
161 158 LM	16114 0005 ¹⁾	1 x T 26/58 W	4,2
162 218 LM	16216 0001 ¹⁾	2 x T 26/18 W	2,8
162 236 LM	16216 0003 ¹⁾	2 x T 26/36 W	5,1
162 258 LM	16216 0005 ¹⁾	2 x T 26/58 W	6,5
161 118 LM EVG	16114 0007	1 x T 26/18 W	1,6
161 136 LM EVG	16114 0008	1 x T 26/36 W	2,7
161 158 LM EVG	16114 0009	1 x T 26/58 W	3,2
162 218 LM EVG	16216 0007	2 x T 26/18 W	2,4
162 236 LM EVG	16216 0008	2 x T 26/36 W	4,2
162 258 LM EVG	16216 0009	2 x T 26/58 W	4,9

1) Uncomp.; article nos. for comp. see price list 2) Weights without packing material



161/162... AUS

for outdoor installation

Note:

The light fitting is not to be used in areas with high mechanical stress (wind) or seldom usage (i.e. maintenance and inspection only). We recommend a weather roof within critical environmental conditions.

Application:

In protected and unprotected outdoor areas and open industrial plants, mounted to walls, ceilings, catwalks and steel structures, pipe brackets, grating, under canopies, bus stops, train stations, subways, construction sites, etc. (please contact us in case of aggressive substances)

Design:

Same as type 161/162... but with UV-resistant PMMA cover, profile gasket, glands M20x1.5 and breathing gland M25x1.5 to avoid condensation

Entries:

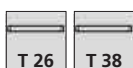
1-lamp: 1 gland M20 at one small side, breathing gland M25 at the other small side (IP64) or at one long side (IP65)
2-lamps: 1 gland M20 at one small side, 1 blind plug and 1 breathing gland at the other small side.

Mounting:

Ceiling and horizontal wall mount or mounting to outreaches, poles, steel structures, catwalks, etc. by means of pipe clamps.
For vertical mounting please consult us.

Advantages of the AUS design:

- glass fibre reinforced polyester housing, durable resistant against UV-radiation and chemical components.
- our injected PMMA-covers are extremely UV-resistant and robust (wall thickness 1.9mm)
- EPDM profile gaskets are UV-, ozone-, weather-, chemically resistant and non-aging
- the breathing gland provides controlled venting and thus protects against condensation
- the fitting can be installed in canopied as well as in entirely open outdoor areas



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾
with low loss ballast			
161 118 AUS	16100 0404	1 x T 26/18 W	2,0
161 136 AUS	16100 0402	1 x T 26/36 W	3,3
161 158 AUS	16100 0400	1 x T 26/58 W	3,6
162 218 AUS	16200 0404	2 x T 26/18 W	2,5
162 236 AUS	16200 0402	2 x T 26/36 W	4,5
162 258 AUS	16200 0400	2 x T 26/58 W	6,3

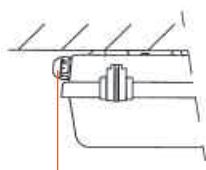
1) Uncomp.; article nos. for comp. see price list, Versions with electronic ballast on request

3) Weights without packing material

Mounting

ceiling mount

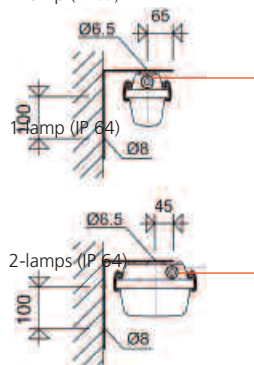
1- and 2-lamps (IP 64)



breathing gland

horizontal wall mount

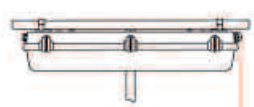
1-lamp (IP 65)



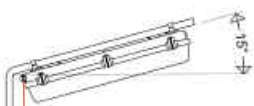
breathing gland

pole mount with pipe clamps

1 and 2 lamps (IP 64)
(pipe clamps see accessories)



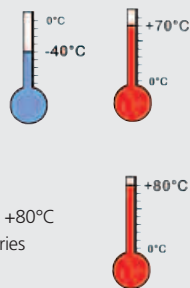
breathing gland



breathing gland



NEW
Note:



Light fittings for a. t. up to +80°C
please select sheet steel series
181/182... H80

161/162... H..

for high ambient temperatures up to +70°C



Application:

Power stations, garbage incineration plants, chemical industries, bakeries ...

Design:

For a. t. up to +50°C:

Diffuser: Injected, clear acrylic with internal prisms.

Closure: External plastic clips (KK).

For a. t. up to +60°C:

Diffuser: Injected, clear polycarbonate (PC) with internal prisms.

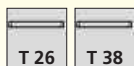
Closure: External plastic clips (KK).

For a. t. up to +70°C:

Wide housing: For 1 fluorescent tube.

Diffuser: Injected, clear (PC) with internal prisms.

Closure: External stainless steel clips (KE) and stainless steel hinges (SC) on the opposite side.



Type	Article no.	Lamps W	Weight ca. kg ⁴⁾

for a. t. up to +40°C / electronic ballast (EVG)

161 118 H40 EVG	16102 0055	1 x T 26/18 W	1,7
161 136 H40 EVG	16102 0056	1 x T 26/36 W	2,8
161 158 H40 EVG	16102 0057	1 x T 26/58 W	3,5
162 218 H40 EVG ²⁾	16203 0105	2 x T 26/18 W	2,9
162 236 H40 EVG ²⁾	16203 0106	2 x T 26/36 W	4,9
162 258 H40 EVG ²⁾	16203 0107	2 x T 26/58 W	6,5

for a. t. up to +50°C / electronic ballast (EVG)

161 118 H50 EVG	16102 0058	1 x T 26/18 W	2,1
161 136 H50 EVG	16102 0059	1 x T 26/36 W	2,8
161 158 H50 EVG	16102 0060	1 x T 26/58 W	4,2
162 218 H50 EVG ²⁾	16203 0108	2 x T 26/18 W	2,8
162 236 H50 EVG ²⁾	16203 0109	2 x T 26/36 W	5,0
162 258 H50 EVG ^{2) 4)}	16203 0110	2 x T 26/58 W	6,2

for a. t. up to +40°C or +50°C / low loss conventional ballast

161 118 H50	16102 0001 ¹⁾	1 x T 26/18 W	2,1
161 136 H50	16102 0004 ¹⁾	1 x T 26/36 W	3,4
161 158 H50	16102 0007 ¹⁾	1 x T 26/58 W	4,1
162 218 H50 ²⁾	16203 0001 ¹⁾	2 x T 26/18 W	2,8
162 236 H50 ²⁾	16203 0004 ¹⁾	2 x T 26/36 W	4,9
162 258 H50 ²⁾	16203 0007 ¹⁾	2 x T 26/58 W	7,1

for a. t. up to +60°C / low loss conventional ballast

161 118 H60	16102 0010 ¹⁾	1 x T 26/18 W	2,1
161 136 H60	16102 0013 ¹⁾	1 x T 26/36 W	3,4
161 158 H60	16102 0016 ¹⁾	1 x T 26/58 W	4,1
162 218 H60 ²⁾	16203 0010 ¹⁾	2 x T 26/18 W	2,8
162 236 H60 ²⁾	16203 0013 ¹⁾	2 x T 26/36 W	4,9
162 258 H60 ²⁾	16203 0016 ¹⁾	2 x T 26/58 W	7,1

for a. t. up to +70°C / low loss conventional ballast

162 118 H70 KE SC ^{2) 3)}	16203 0028	1 x T 26/18 W	2,6
162 136 H70 KE SC ^{2) 3)}	16203 0031	1 x T 26/36 W	4,5
162 158 H70 KE SC ^{2) 3)}	16203 0034	1 x T 26/58 W	5,9

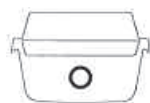
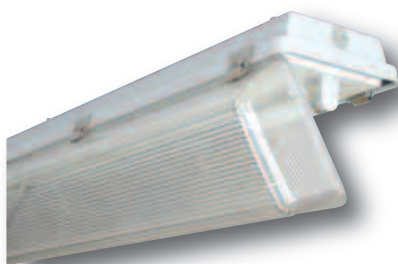
1) Uncomp.; article no. for comp. see price list

2) Also available with mirror type reflector

3) Uncompensated version only

4) Weights without packing material

Series 162 1... H70



Note:

Especially for the food industry we deliver version LM or IFS with a special surface finish of the PC cover which complies with the IFS (International Food Standard), also available for deep temperatures. (Please consult us.)

161/162... T..

for low ambient temperatures down to -40°C

IP65

**Application:**

Deep freezing rooms such as ice plants, cold storage rooms in slaughter houses, fish factories and dairy product factories...

Design:**Down to -30°C:**

Diffuser: Injected, clear acrylic glass (PMMA) with internal prisms.

Closure: External plastic clips (KK).
Sheet steel reflector, white painted
Heat build-up tube: Ø 38mm

Down to -40°C:

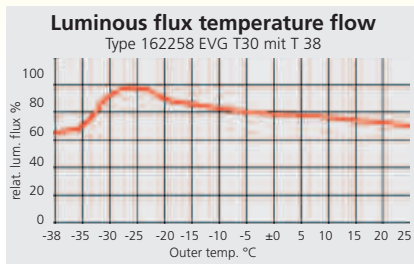
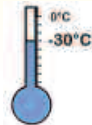
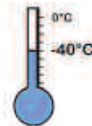
Diffuser: Injected, clear acrylic glass (PMMA) with internal prisms.

Closure: External plastic clips (KK).
Sheet steel reflector, white painted
Heat build-up tube: Ø 38mm



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
for a. t. down to -30°C / electronic ballast (EVG)			
161 118 T30 EVG	16103 0001	1 x T 26/18 W	1,8
161 136 T30 EVG	16103 0002	1 x T 26/36 W	2,8
161 158 T30 EVG	16103 0003	1 x T 26/58 W	3,6
162 218 T30 EVG	16202 0001	2 x T 26/18 W	2,9
162 236 T30 EVG	16202 0002	2 x T 26/36 W	5,0
162 258 T30 EVG	16202 0003	2 x T 26/58 W	6,6
for a. t. down to -40°C / electronic ballast (EVG)			
161 118 T40 EVG	16103 0013	1 x T 26/18 W	1,8
161 136 T40 EVG	16103 0014	1 x T 26/36 W	2,8
161 158 T40 EVG	16103 0015	1 x T 26/58 W	3,6
162 218 T40 EVG	16202 0013	2 x T 26/18 W	2,9
162 236 T40 EVG	16202 0014	2 x T 26/36 W	5,0
162 258 T40 EVG	16202 0015	2 x T 26/58 W	6,6

1) Weights without packing material

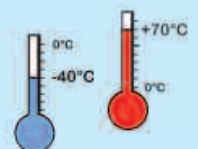


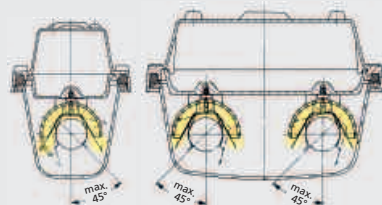
Dustproof/Waterproof
Light Fittings

**Further Series / Equipment**

- insulation class I
- halogen-free version
- silicone-free version
- shake-proof version for areas where there is a risk of vibrations or shocks (e.g. cranes, excavators, conveyor belts, etc.)
- with ECG for applications with many switching cycles
- with 2 cable entries at one small end of the housing for looping the mains cable (In this case a through-wiring system is not required)
- for cable entries up to M25 x 1,5, also in brass
- with breather for pressure compensation
- with rotatable mirror reflector systems
- with theft-protected clips

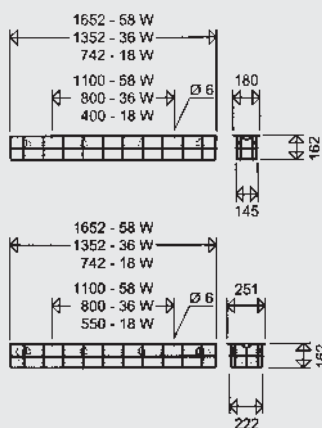
- with „Wieland - plugs“ e.g. for construction lighting
- for vertical mounting (with lamp holder support)
- NEW** - for wide range of ambient temperature from -40°C to +70°C
- for other voltages





DB - standardized by Deutsche Bahn AG

Wire guards



Pipe clamp R1 1/2" - Ø 48,3mm
R 2" - Ø 60,3mm



without support   with support

Ceiling bracket



Socket support 190 FS



Note:

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

Accessories / Spare Parts

Type	Article no.	Type	Article no.
Spare acrylic glass covers (PMMA)		Spare polycarbonate glass covers (PC)	
161 018	16111 9000	161 018 PC	16111 9003
161 036	16111 9001	161 036 PC	16111 9004
161 058	16111 9002	161 058 PC	16111 9005
162 018	16211 9000	162 018 PC	16211 9003
162 036	16211 9001	162 036 PC	16211 9004
162 058	16211 9002	162 058 PC	16211 9005
Spare covers			
161 018 LM	16111 9017	162 018 LM	16211 9017
161 036 LM	16111 9018	162 036 LM	16211 9018
161 058 LM	16111 9019	162 058 LM	16211 9019
Spare polycarbonate glass covers PC SC			
161 018 PC SC	16111 9012	162 018 PC SC	16211 9014
161 036 PC SC	16111 9013	162 036 PC SC	16211 9015
161 058 PC SC	16111 9014	162 058 PC SC	16211 9016
Spare polycarbonate glass covers PC 2SC			
161 018 PC 2SC	16111 9020	162 018 PC 2SC	16211 9020
161 036 PC 2SC	16111 9021	162 018 PC 2SC	16211 9021
161 058 PC 2SC	16111 9022	162 018 PC 2SC	16211 9022
Clips			
KK	90053 9000	plastic	
KC	90054 9000	plastic / stainless steel	
KE	90055 9000	pure stainless steel	
Cable entries			
2511	90063 9000	grommets, Pg13,5/M20	
2561	25610 9000	plastic cable gland M20 x 1,5	
2560	25600 9000	plastic cable gland M25 x 1,5	
KLIMASTUTZEN FR	90259 9001	breathing gland M25 x 1.5	
Lamp holders			
190/1	90056 9000	lamp holder	
161/1	90056 9003	lamp holder (as from 2004)	
161/1 T130	90056 9004	lamp holder for a. t. of +50°C (as from 2004)	
161/1 T140	90056 9006	lamp holder for a. t. of +60°C (as from 2004)	
183/1	90057 9000	starter holder	
190 FS	90056 9002	lamp holder support	
Lamp holders for T5-lamps			
161 T5	90056 9008	lamp holder for all fluotubes	
Mirror-type alu reflectors for subsequent installation into our standard light fittings			
S 162/2 18	90238 9000	for 162 218/214/224	
S 162/2 36	90238 9001	for 162 236/228/254	
S 162/2 58	90238 9002	for 162 258/235/249/280	
Rotatable snap-on mirror reflectors			
High anodized mirror-type reflectors clamped onto the 26mmØ fluorescent tubes, with snap-on device, allowing a reflector setting in steps of 15°. Suitable for the following light fittings:			
161/21	16112 0001	for 161 118	
161/41	16112 0002	for 161 136	
161/61	16112 0003	for 161 158	
162/22	16212 0001	for 162 218	
162/42	16212 0002	for 162 236	
162/62	16212 0003	for 162 258	
Wire guards, powder coated			
SK 120	90004 0001	for 1 x 18/20 W	
SK 140	90004 0002	for 1 x 36/40 W	
SK 165	90004 0003	for 1 x 58/65 W	
SK 220	90004 0004	for 2 x 18/20 W	
SK 240	90004 0005	for 2 x 36/40 W	
SK 265	90004 0006	for 2 x 58/65 W	
Pipe clamps			
183 RO 112 P	90091 0002	2 pcs., 1 1/2 " stainless steel, without retaining clip	
183 RO 2 P	90092 0002	2 pcs., 2 " stainless steel, without retaining clip	
183 RO 112 H P	90226 0002	2 pcs., 1 1/2 " stainless steel, with retaining clip	
183 RO 2 H P	90227 0002	2 pcs., 2 " stainless steel, with retaining clip	
183 RO 112 A P	90093 0002	2 pcs., 1 1/2 " stainless steel, with support	
183 RO 2 A P	90094 0002	2 pcs., 2 " stainless steel, with support	
Consider mounting distances when installing the light fittings by pipe clamps to pole outreaches or any brackets.			
Angle brackets, aluminium for series 161/162..., 163/164... and 175/176...			
HW 30° P	90045 9001	pair of angle brackets 30°	
HW 45° P	90045 9002	pair of angle brackets 45°	
HW 90° P	90045 9003	pair of angle brackets 90°	
Accessories for ceiling mounting			
183 S	90049 0002	hook for chain suspension	
183 DS	90095 0001	stainless steel bracket with bolt M5	



Dustproof/Waterproof
Light Fittings

Dustproof/Waterproof Polyester Light Fittings with Diffusers (Insulation Class I)

Series 163/164...

Application:

In humid, wet and dusty interior areas of industrial and agricultural premises, for car parks, basements, kitchens and civil defence buildings.

Aggressive atmospheres: Please consult us.

Design:

Housing: Glass fibre reinforced polyester resin, foamed polyurethane gasket.

Diffuser: Stippled clear impact resistant acrylic (PMMA) or polycarbonate (PC), hinged on both sides.

Fasteners: External plastic clips (KK).

Stainless steel clips (KE) on request.

Reflector: Removable white sheet steel,

complete with electronic components.

Rotary fasteners for quick assembly.

Electrical connection: 3-pole terminal block.

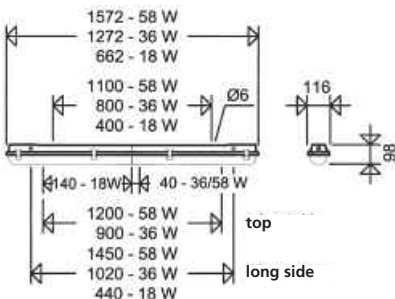
Cable entries: Variable, closed knock-outs on the short and long sides, and on the top, for looping the mains cable. 2 blanking plugs M20.

Through-wiring: Classic, up to 7 x 2,5mm² or 5 x 4mm² possible. Alternatively looping the cable at one end (see below).

Mounting system: 2 holes for ceiling mounting. Rubber gaskets and U-washers for sealing are supplied inside the fitting.

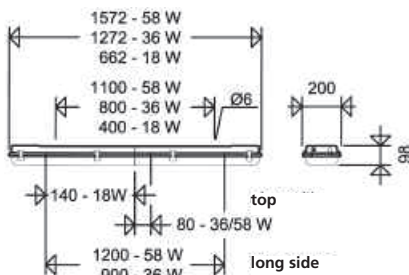
Shock resistance test: RK 1,6/16A

Series 163...



Additional entries (knock-outs)

Series 164...



Additional entries (knock-outs)



Standard design with cable entries for single-end IN-OUT wiring:

The variable cable entries make it possible to adapt for all local structural conditions and enables the use of single-end IN-OUT wiring instead of the classic through wiring. All entries are knock-out.

SCHUCH quality - Your advantage:

- quality dust- and waterproof light fitting with higher than average mechanical strength and chemical resistance
  - robust glass fibre reinforced polyester enclosure
  - robust, modified PMMA diffuser (alternatively PC) with thicker walls also in the critical areas (corners)
  - reliable and infallible sealing, due to non-aging, weather and chemical resistant polyurethane gasket situated inside a deep groove
- easy to install and maintain
  - fast dismantling and assembly of the reflector using rotary fasteners on moulded-in studs
  - large terminal compartment for up to 7 x 2.5mm² or 5 x 4mm² terminals
  - problem-free, single-handed installation (2-point suspension)
  - easily adaptable to all local structural conditions due to the variable cable entries on the short and long sides, as well as the top
  - quick and economic single-end IN-OUT wiring instead of the classic through wiring for strip lighting
- shock-proof and certified for installation in civil defence buildings (RK 1,6/16A)
- highly flexible and wide application potential due to large number of variations (see Further series / versions)

163/164...



Type	Article no.	Lamps W	Weight ca. kg ²⁾
with PMMA or PC diffuser and low loss conventual ballast			
163 118	16300 0001 ¹⁾	1 x T 26/18 W	1,6
163 136	16300 0004 ¹⁾	1 x T 26/36 W	2,6
163 158	16300 0007 ¹⁾	1 x T 26/58 W	3,3
164 218	16400 0001 ¹⁾	2 x T 26/18 W	2,4
164 236	16400 0004 ¹⁾	2 x T 26/36 W	4,3
164 258	16400 0007 ¹⁾	2 x T 26/58 W	5,8
163 118 PC	16300 0013 ¹⁾	1 x T 26/18 W	1,6
163 136 PC	16300 0016 ¹⁾	1 x T 26/36 W	2,6
163 158 PC	16300 0019 ¹⁾	1 x T 26/58 W	3,4
164 218 PC	16400 0013 ¹⁾	2 x T 26/18 W	2,4
164 236 PC	16400 0016 ¹⁾	2 x T 26/36 W	4,3
164 258 PC	16400 0019 ¹⁾	2 x T 26/58 W	5,8

with PMMA or PC diffuser and electronic ballast (EVG)

163 118 EVG	16300 0010	1 x T 26/18 W	1,3
163 136 EVG	16300 0011	1 x T 26/36 W	2,3
163 158 EVG	16300 0012	1 x T 26/58 W	2,6
164 218 EVG	16400 0010	2 x T 26/18 W	2,2
164 236 EVG	16400 0011	2 x T 26/36 W	3,2
164 258 EVG	16400 0012	2 x T 26/58 W	4,1
163 118 PC EVG	16300 0022	1 x T 26/18 W	1,4
163 136 PC EVG	16300 0023	1 x T 26/36 W	2,3
163 158 PC EVG	16300 0024	1 x T 26/58 W	2,6
164 218 PC EVG	16400 0022	2 x T 26/18 W	2,2
164 236 PC EVG	16400 0023	2 x T 26/36 W	3,2
164 258 PC EVG	16400 0024	2 x T 26/58 W	4,1

1) Uncomp.; article nos. for comp. see price list

2) Weights without packing material

163/164... S.

with mirror-type reflector for high ceilings



Application:

Industrial halls, warehouses, high-bay racking, storage areas and corridors with ceiling heights from 5 to 12m, breweries, slaughter houses (Please contact us regarding use where detergents and simi-

lar chemical materials occur).

Design: Narrow and wide housing with surface refined mirror-type reflectors made from purest aluminium (S). Also available with electronic ballast (EVG).



Series 163...ST narrow beam



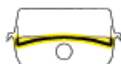
Series 1641...ST narrow beam



Series 1642...ST narrow beam



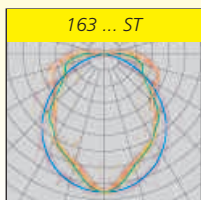
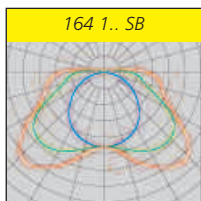
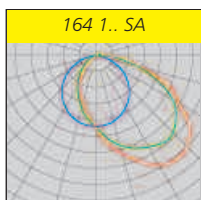
Series 1641...SB wide beam



Series 163...SA asymmetrical beam



Series 1641...SA asymmetrical beam



Type	Article no.	Lamps W	Weight ca. kg ²⁾
with symmetrical narrow mirror reflector, PMMA diffuser			
163 118 ST	16300 0025 ¹⁾	1 x T 26/18 W	1,7
163 136 ST	16300 0028 ¹⁾	1 x T 26/36 W	2,7
163 158 ST	16300 0031 ¹⁾	1 x T 26/58 W	3,6

164 118 ST	16400 0049 ¹⁾	1 x T 26/18 W	2,3
164 136 ST	16400 0053 ¹⁾	1 x T 26/36 W	4,3
164 158 ST	16400 0057 ¹⁾	1 x T 26/58 W	5,9

164 218 ST	16400 0025 ¹⁾	2 x T 26/18 W	2,5
164 236 ST	16400 0028 ¹⁾	2 x T 26/36 W	4,5
164 258 ST	16400 0031 ¹⁾	2 x T 26/58 W	6,1

with symmetrical wide mirror reflector, PMMA diffuser			
164 118 SB	16400 0148	1 x T 26/18 W	2,4
164 136 SB	16400 0152	1 x T 26/36 W	3,9
164 158 SB	16400 0156	1 x T 26/58 W	5,9

with asymmetrical mirror reflector, PMMA diffuser			
163 118 SA	16300 0109	1 x T 26/18 W	1,7
163 136 SA	16300 0113	1 x T 26/36 W	2,7
163 158 SA	16300 0117	1 x T 26/58 W	3,6

164 118 SA	16400 0160	1 x T 26/18 W	2,5
164 136 SA	16400 0164	1 x T 26/36 W	4,0
164 158 SA	16400 0168	1 x T 26/58 W	6,0

1) Uncomp.; article nos. for comp. see price list

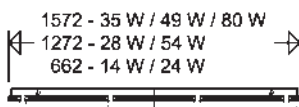
2) Weights without packing material

Note:

Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

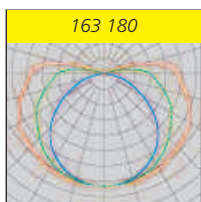
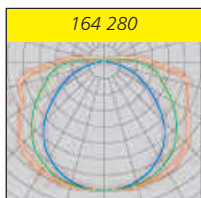
- FM for high light efficiency (14, 28, 35 W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C bis 70°C (24, 54, 80W)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.



163/164... (T5)

for T5 fluorescent lamps (Ø 16mm)



Type	Article no.	Lamps W	Weight ca. kg ³⁾
narrow housing			
163 114/24 ¹⁾	16305 0010	1 x T 16/14/24 W	1,4
163 128/54 ¹⁾	16305 0009	1 x T 16/28/54 W	1,4
163 135/49/80 ¹⁾	16305 0008	1 x T 16/35/49/80 W	1,4

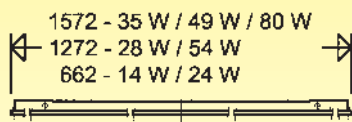
wide housing			
164 214/24 ¹⁾	16405 0010	2 x T 16/14/24 W	2,7
164 228/54 ¹⁾	16405 0009	2 x T 16/28/54 W	2,5
164 235/49 ¹⁾	16405 0008	2 x T 16/35/49 W	2,5
164 280/2E ²⁾	16405 0007	2 x T 16/80 W	5,9

1) with 2 single-ballast

3) Weights without packing material



Dustproof/Waterproof
Light Fittings



163/164... S. (T5)

with mirror-type reflector for high ceilings, for T5 fluorescent lamps (Ø 16mm)



Application:

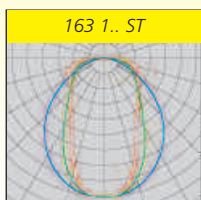
Industrial halls, warehouses, high-bay racking, storage areas and corridors with ceiling heights from 5 to 12m, breweries, slaughter houses (Please contact us regarding to use where detergents and si-

milar chemical materials are present!).

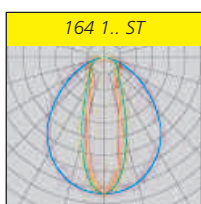
Design: High anodized symmetrical (S.) or asymmetrical (SA) mirror-type pure aluminium reflectors with high operating efficiency.



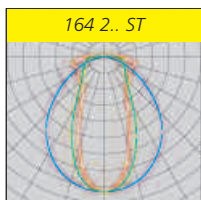
Series 163 ... ST narrow beaming



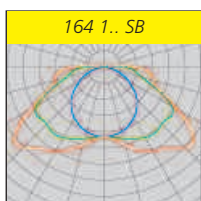
Series 164 1.. ST narrow beaming



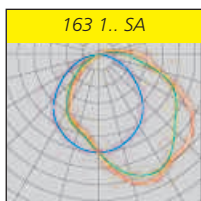
Series 164 2.. ST narrow beaming



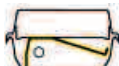
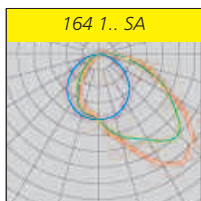
Series 164 1.. SB wide beaming



Series 163 ... SA asymmetrical



Series 164 1.. SA asymmetrical



Type	Article no.	Lamps W	Weight ca. kg ³⁾
narrow beam, narrow housing, single-lamp			
163 128 ST	16305 0103	1 x T 16/28 W	2,6
163 154 ST	16305 0104	1 x T 16/54 W	2,6
163 135 ST	16305 0105	1 x T 16/35 W	2,9
163 149 ST	16305 0106	1 x T 16/49 W	2,9
163 180 ST	16305 0107	1 x T 16/80 W	2,9
narrow beam, wide housing, single-lamp			
164 128 ST	16405 0103	1 x T 16/28 W	4,3
164 154 ST	16405 0104	1 x T 16/54 W	4,3
164 135 ST	16405 0105	1 x T 16/35 W	6,2
164 149 ST	16405 0106	1 x T 16/49 W	6,2
164 180 ST	16405 0107	1 x T 16/80 W	6,2
narrow beam, wide housing, twin-lamp			
164 228 ST	16405 0110	2 x T 16/28 W	4,2
164 254 ST	16405 0111	2 x T 16/54 W	4,2
164 235 ST	16405 0112	2 x T 16/35 W	5,9
164 249 ST	16405 0113	2 x T 16/49 W	5,9
164 280/2E ST ²⁾	16405 0114	2 x T 16/80 W	6,1
wide beam, wide housing, single-lamp			
164 128 SB	16405 0303	1 x T 16/28 W	4,0
164 154 SB	16405 0304	1 x T 16/54 W	4,0
164 135 SB	16405 0305	1 x T 16/35 W	6,3
164 149 SB	16405 0306	1 x T 16/49 W	6,3
164 180 SB	16405 0307	1 x T 16/80 W	6,3
asymmetrical beam, narrow housing, single-lamp			
163 128 SA	16305 0203	1 x T 16/28 W	2,6
163 154 SA	16305 0204	1 x T 16/54 W	2,6
163 135 SA	16305 0205	1 x T 16/35 W	2,9
163 149 SA	16305 0206	1 x T 16/49 W	2,9
163 180 SA	16305 0207	1 x T 16/80 W	2,9
asymmetrical beam, wide housing, singlelamp			
164 128 SA	16405 0203	1 x T 16/28 W	4,1
164 154 SA	16405 0204	1 x T 16/54 W	4,1
164 135 SA	16405 0205	1 x T 16/35 W	6,4
164 149 SA	16405 0206	1 x T 16/49 W	6,4
164 180 SA	16405 0207	1 x T 16/80 W	6,4

1) Uncomp.; article nos. for comp. see price list

3) Weights without packing material

2) With 2 single EVG



Further Series / Equipment

- with EVG suitable for higher switching frequency
- with stainless steel fasteners (KE)
- with PVC or silicon through wiring up to max. 7 x 2.5mm²
- with alternative entries up to max M25 x 1.5
- in insulation class II

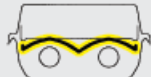
- for low temperatures
- for high temperatures
- for applications in food industry areas
- as emergency lighting (see catalogue section "Emergency Lighting")
- as maintenance lighting in wind-power towers



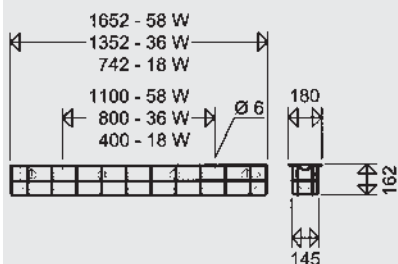
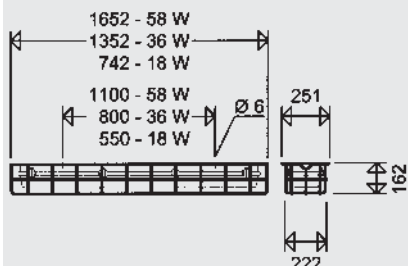
Aluminium narrow beam mirror reflector
for retrofitting into standard light fitting

ST 163

ST 164



Protective guard



Pipe clamp R1 1/2" - Ø 48,3mm
R2" - Ø 60,3mm



without support   with support

Ceiling bracket 183 DS



Tip:

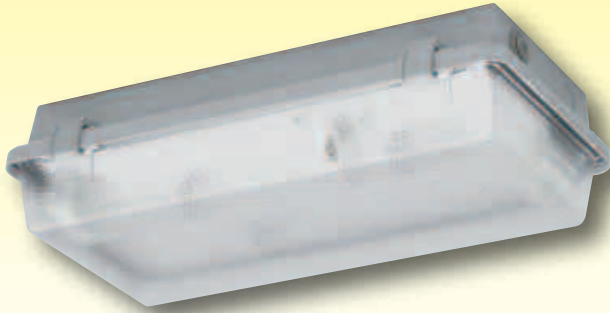
Light-band rails and through wiring see end of
chapter "dustproof/waterproof light fitting"

Accessories / Spare Parts

Type	Article no.	Type	Article no.
Spare diffuser PMMA		Spare diffuser PC	
163 018	16311 9000	163018 PC	16311 9003
163 036	16311 9001	163036 PC	16311 9004
163 058	16311 9002	163058 PC	16311 9005
164 018	16411 9000	164018 PC	16411 9003
164 036	16411 9001	164036 PC	16411 9004
164 058	16411 9002	164058 PC	16411 9005
Fasteners			
163 KK	90123 9000	plastic	
163 KE	90123 9001	stainless steel	
Cable entries			
2511	90063 9000	threaded blanking plug M20	
2561	25610 9000	plastic cable gland M20 x 1,5	
2560	25600 9000	plastic cable gland M25 x 1,5	
Lamp holders			
163/1	90124 9000	without starter holder (cut-out 25.5 x 12.2)	
163/2	90125 9000	with starter holder (cut-out 25.5 x 12.2)	
		without starter holder (cut-out 25.5 x 13.2)	
164/1	90124 9001	from manufacturing date 2005	
164/1/30	90124 9003	from manufacturing date 2008 (focal point 30mm)	
		with starter holder (cut-out 25.5 x 13.2)	
164/2	90125 9001	from manufacturing date 2005	
164/2/30	90125 9002	from manufacturing date 2008 (focal point 30mm)	
T5 Lamp holder			
163/1 T5	90124 9002	for 163/164...	
163/1 T5/20	90124 9004	for 163/164... S.	
Aluminium narrow beam mirror reflector for retrofitting into standard light fitting (not for T5)			
ST 163/18	16312 0003	for 163 118	
ST 163/36	16312 0001	for 163 136	
ST 163/58	16312 0002	for 163 158	
ST 164/18	16412 0003	for 164218	
ST 164/36	16412 0001	for 164236	
ST 164/58	16412 0002	for 164258	
Protective guard, powder coated			
SK 120	90004 0001	for 1 x 18/20 W	
SK 140	90004 0002	for 1 x 36/40 W	
SK 165	90004 0003	for 1 x 58/65 W	
SK 220	90004 0004	for 2 x 18/20 W	
SK 240	90004 0005	for 2 x 36/40 W	
SK 265	90004 0006	for 2 x 58/65 W	
Pipe clamp			
183 RO 112 P	90091 0002	1 1/2", stainless steel, without retaining bracket (pair)	
183 RO 2 P	90092 0002	2", stainless steel, without retaining bracket (pair)	
163 RO 112A P	90245 0003	1 1/2", stainless steel, with support (pair)	
163 RO 2A P	90245 0004	2", stainless steel, with support (pair)	
Attention: Observe the fixing distance when mounting on boom with pipe clamps (boom length!)			
Accessories for ceiling mounting			
183 S	90049 0002	swing hook for chain suspension	
183 DS	90095 0001	stainless steel bracket, with screw M5	

Dustproof/Waterproof
Light Fittings

Compact Polyester Dustproof/Waterproof Light Fitting (Insulation Class I) Series 164... KL



Application:

In wet, humid and dusty locations in commercial and industrial premises, agricultural buildings, multi-storey and underground car parks, basements, kitchens, civil defence shelters. (Please contact us regarding use where detergents and similar chemical materials occur).

Design:

Housing: Glass fibre reinforced polyester, inlaid profile gasket.

Diffuser: Clear impact resistant stippled PMMA, hinged on either side. Also available in white opal (W) or clear (K) PMMA, or clear stippled (PC) or clear (K PC) polycarbonate.

Fasteners: Single piece plastic clips (KK).

Stainless steel (KE) on request.

Reflector: Detachable, white sheet steel, complete with electrical components. Rotary fasteners for quick assembly.

Electrical connection: 3-pole connection terminal.

Cable entries: Variable, at the ends and top of the housing, 2 x threaded blanking plugs M20.

Through wiring: Classic through wiring 7 x 2.5mm² or 5 x 4mm² possible. Also available for looping in/out at one end (see below).

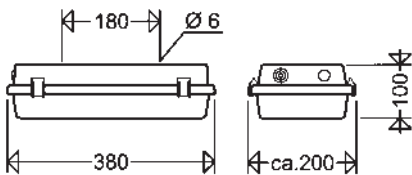
Mounting system: 2 holes for ceiling mounting. Rubber gaskets and U-washers for sealing are supplied inside the fitting.

SCHUCH Quality - Your advantage:

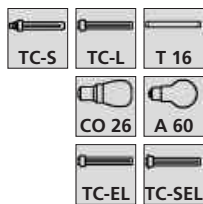
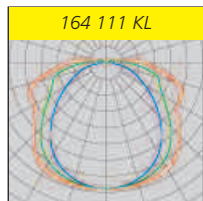
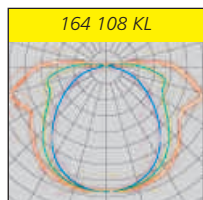
- see series 163/164.. the given quality advantages also apply for the series 164... KL - without restriction.

Standard design with cable entries for single-end IN-OUT wiring:

The variable cable entries make it possible to adapt for all local structural conditions and allows the use of single-end IN-OUT wiring instead of the classic through wiring. All entries are knock-out.



164... KL



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾

for compact lamps, socket G23 or 2G11, VVG¹⁾

164 111 KL	16404 0061 ¹⁾	1 x TC-S 9-11 W	1,4
164 211 KL ²⁾	16404 0070 ¹⁾	2 x TC-S 9-11 W	1,8
164 118 KL	16404 0001 ¹⁾	1 x TC-L 18 W	1,8
164 218 KL	16404 0003 ¹⁾	2 x TC-L 18 W	1,7
164 124 KL	16404 0005 ¹⁾	1 x TC-L 24 W	1,7
164 224 KL	16404 0007 ¹⁾	2 x TC-L 24 W	2,6

for compact lamps, socket G5, 2G7 or 2G11, EVG

164 108 KL EVG	16404 0084	1 x T 16/8 W	1,2
164 208 KL EVG	16404 0093	2 x T 16/8 W	1,2
164 111 KL EVG	16404 0063	1 x TC-SEL 11 W	1,1
164 211 KL EVG	16404 0072	2 x TC-SEL 11 W	1,3
164 118 KL EVG	16404 0015	1 x TC-L 18 W	1,2
164 218 KL EVG	16404 0016	2 x TC-L 18 W	1,3
164 124 KL EVG	16404 0017	1 x TC-L 24 W	1,2
164 224 KL EVG	16404 0018	2 x TC-L 24 W	1,3

for compact lamps, socket 2G7 or 2G11, EVG, for 12V or 24V supply

164 111 KL 12V DC	16404 0080	1 x TC-SEL 11 W	1,5
164 111 KL 24V DC	16404 0081	1 x TC-SEL 11 W	1,5
164 118 KL 12V DC	16404 0019	1 x TC-L 18 W	1,4
164 118 KL 24V DC	16404 0020	1 x TC-L 18 W	1,4

NEW

164 110 KL E27	16404 0082	1 x TC-EL 10 W	1,1
164 114 KL E27	16404 0083	1 x TC-EL 14 W	1,1
164 118 KL E27	16404 0085	1 x TC-EL 18 W	1,1

for compact lamps, socket G5, VVG

164 108 KL	16404 0009 ¹⁾	1 x T 16/8 W	1,4
164 208 KL	16404 0011 ¹⁾	2 x T 16/8 W	1,4

for incandescent lamps, socket E14 / E27

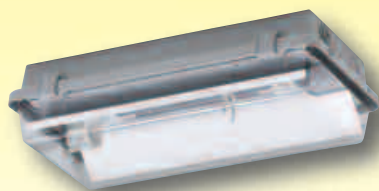
164 225 KL GL	16404 0013	E14; 2 x 25 W	1,0
164 140 KL GL	16404 0014	E27; 1 x 40 W	1,1

1) Uncomp.; article nos. for comp. see price list
2) Individual circuits

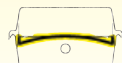
3)Weights without packing material

164... KL S.

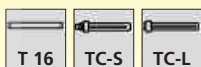
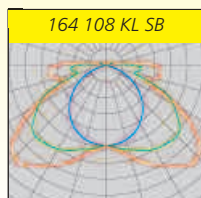
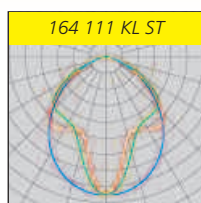
with high polished mirror-type reflector for high ceilings



Series 164 1.. KL SB



Series 164 1.. KL ST



Application:

Industrial halls, warehouses, high-bay racking, storage areas and corridors with high ceilings. (Please contact us regarding use where detergents and similar chemical materials occur).

cal materials occur).

Design: As the standard light fitting, but with clear PMMA diffuser (K) and surface refined mirror-type reflectors made from purest aluminium (S).

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾

with wide mirror reflector and low loss conventional ballast

164 108 KL SB	16404 0128 ¹⁾	1 x T 16/8 W	1,5
164 111 KL SB	16404 0140 ¹⁾	1 x TC-S 9-11 W	1,5
164 118 KL SB	16404 0152 ¹⁾	1 x TC-L 18 W	1,4
164 124 KL SB	16404 0164 ¹⁾	1 x TC-L 24 W	1,5

with narrow mirror reflector and low loss conventional ballast

164 108 KL ST	16404 0122 ¹⁾	1 x T 16/8 W	1,4
164 111 KL ST	16404 0134 ¹⁾	1 x TC-S 9-11 W	1,5
164 118 KL ST	16404 0146 ¹⁾	1 x TC-L 18 W	1,6
164 124 KL ST	16404 0158 ¹⁾	1 x TC-L 24 W	1,4

with wide mirror reflector and electronic ballast

164 108 KL SB EVG	16404 0130	1 x T 16/8 W	1,2
164 111 KL SB EVG	16404 0142	1 x TC-S 9-11 W	1,2
164 118 KL SB EVG	16404 0154	1 x TC-L 18 W	1,3
164 124 KL SB EVG	16404 0166	1 x TC-L 24 W	1,2

with narrow mirror reflector and electronic ballast

164 108 KL ST EVG	16404 0124	1 x T 16/8 W	1,1
164 111 KL ST EVG	16404 0136	1 x TC-S 9-11 W	1,2
164 118 KL ST EVG	16404 0148	1 x TC-L 18 W	1,3
164 124 KL ST EVG	16404 0160	1 x TC-L 24 W	1,2

1) Uncomp.; article nos. for comp. see price list 2) Weights without packing material

NEW
with higher efficiency

164 201 W KL LED

with high power LED, for identification of escape routes



Application:

For connection to group or central battery systems, or emergency-power circuits for illumination and identification of escape routes.

Electrical design:

With electronic ballast (230V AC/DC) with overload and short circuit protection.

LED: High power LED 1W, 6.500K

Ambient temperature: -20°C to +30°C

Advantages of LED-version:

- low operating costs due to low power consumption and high efficiency
- up to 74% energy savings in comparison to an 8W fluorescent lamp
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, Ta=25°C)
- low maintenance costs due to long maintenance intervals
- immediate full light output even at low temperatures
- ideal for frequent operating cycles
- resistant against shocks and vibrations
- excellent even illumination of the pictogram



164... KL LED with pictogram



Type	Article no. ¹⁾	Qty. LED W	Weight ca. kg ²⁾

164 201 W KL LED ¹⁾	16404 0501	2 x 1 W	2,4 W	0,9

1) Self-adhesive standard pictograms see "Accessories / Spare Parts" 2) Weights without packing material

Note:

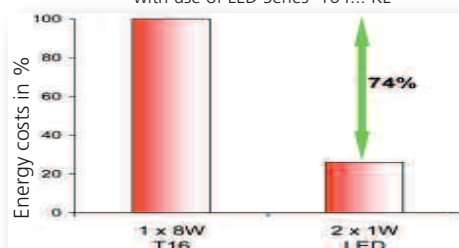
The data given for the LED is relevant at the time of print. Changes based on technical advancements.

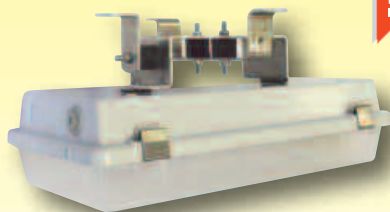
The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

Energy cost savings

with use of LED Series 164... KL





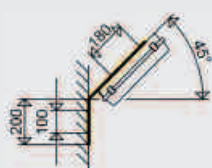
Series 164... KL with standard pictogram



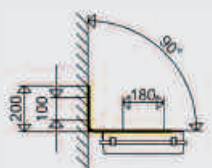
Further Series / Equipment

- with stainless steel fasteners KE)
- with alternative entries up to max M25 x 1.5
- with cable entries on rear
- with module for individual monitoring of light fittings connected to central or group battery systems.
- with coloured LED
- with shock absorber mounting
- in vibration proof design for installation in areas subject to vibration or possible impacts (e.g. excavator running boards, conveyors etc.)
- in halogen-free design
- in insulation class II
- as emergency lighting (see catalogue section „Emergency Lighting“), also with power LED
- for signalling and with identification pictogram of escape routes
- for tunnel lighting (e.g. for underground train tunnels)

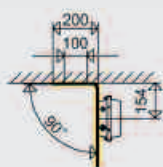
Wall bracket 45° (WA45)



Wall bracket 90° (WA90)



Ceiling bracket (DA)

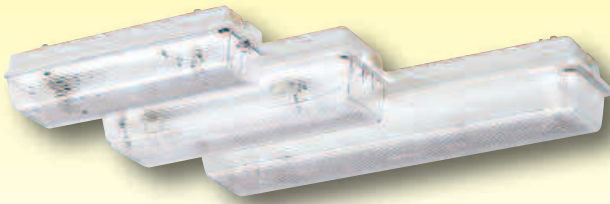


Accessories / Spare Parts

Type	Article no.	
Spare diffusers		
164 000	16413 9000	PMMA, stippled clear acrylic
164 000 W	16413 9001	PMMA, opal-white acrylic
164 000 K	16413 9004	PMMA, clear smooth for series 164...KL SB + ST
164 000 PC	16413 9002	PC, stippled clear polycarbonate
164 000 K PC	16413 9005	PC, opal-white polycarbonate
Cable entries		
2511	90063 9000	threaded blanking plug M20
2561	25610 9000	plastic cable gland M20 x 1,5
2560	25600 9000	plastic cable gland M25 x 1,5
Lamp holder	see Series 130/131/132...	
Mounting brackets		
WA 45	90232 0002	wall bracket 45°, painted
WA 90	90232 0003	wall bracket 90°, painted
DA/WA 90 P	90232 0015	1 pair of ceiling/wall bracket 90°, painted
Fasteners		
163 KK	90123 9000	plastic
163 KE	90123 9001	stainless steel
Standard pictogram, self-adhesive (for light fittings with clear stippled or clear diffusers)		
121/33 W	12112 0006	emergency exit 'left' 
121/34 W	12112 0007	emergency exit 'right' 
121/35 W	12112 0008	emergency exit 'down' 

Note: Further pictograms or legends upon request

Small High Impact Resistant Dust-/Waterproof Light Fittings with Diffusers Series 130/131/132...



Application:

Humid, wet and dusty interior areas, corridors, staircases, below canopies and balconies...
Aggressive atmospheres: Please consult us

Design:

Housing: White polycarbonate.
Cover: Injected clear polycarbonate with internal prisms or white opalescent (W), at one side with multiple hinge for suspending and unhinging the diffuser, captive stainless steel screw on the other side for closing the fitting.
Connection: Via 3-pole terminal.

Cable entry:

Series 130...

1 grommet M16 at the locking side.
(1 cable entry at the back of the housing upon request).

Series 131... + 132...

1 grommet M16 at each front side.
Mounting: 2 borings serve for direct ceiling mounting. Disks and washers are inside the fitting.

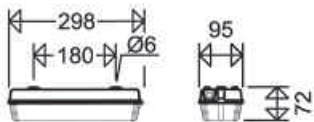
Series 130... and 131... may also be mounted to wall brackets (see accessories).

Shock resistance test: RK 1,6/16 A
Incand. lamp version: not shock tested

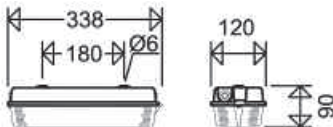
SCHUCH Quality - Your advantage:

- robust, impact resistant design (all polycarbonate)
- easy to install and to maintain thanks to hinged diffuser
- shock tested: RK 1.6 / 16A
- **DB** - standardized by Deutsche Bahn AG
-

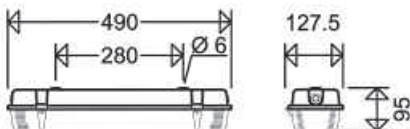
Series 130...



Series 131...

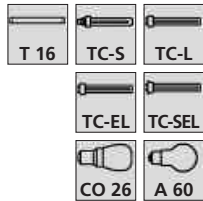
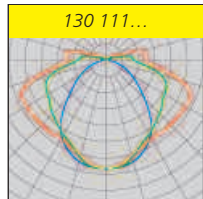
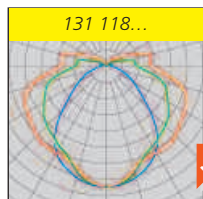
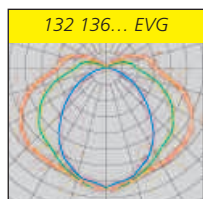


Series 132...



130/131/132...

with clear polycarbonate diffuser (PC) with internal prisms



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
for compact fluorescent lamps, socket G23 or 2G11			
130 111	13000 0001 ¹⁾	1 x TC-S 5 bis 11 W	0,7
130 209	13000 0002 ¹⁾	2 x TC-S 9 W (Tandemschalt.)	1,0
131 111	13100 0001 ¹⁾	1 x TC-S 11 W	0,8
131 211	13100 0005 ¹⁾	2 x TC-S 11 W	1,1
131 118 ²⁾	13100 0009 ¹⁾	1 x TC-L 18 W	1,1
132 136	13200 0001 ¹⁾	1 x TC-L 36 W	1,5
for compact fluorescent lamps, socket 2G7 or 2G11			
130 111 EVG	13000 0019	1 x TC-SEL 11 W	0,5
131 111 EVG	13100 0013	1 x TC-SEL 11 W	0,7
131 211 EVG	13100 0050	2 x TC-SEL 11 W	0,7
131 118 EVG	13100 0015	1 x TC-L 18 W	0,7
132 136 EVG	13200 0003	1 x TC-L 36 W	1,2
for compact fluorescent lamps, socket 2G7, for 12V or 24V supply			
130 111 24V DC	13000 0023	1 x TC-SEL 11 W	0,5
130 111 12V DC	13000 0022	1 x TC-SEL 11 W	0,5
131 111 24V DC	13100 0017	1 x TC-SEL 11 W	1,0
131 111 12V DC	13100 0016	1 x TC-SEL 11 W	1,0
for compact lamps with integrated electronic ballast, socket E27			
131 110 E27	13100 0036	1 x TC-EL 10 W	0,9
131 114 E27	13100 0035	1 x TC-EL 14 W	0,9
for fluorescent tubes, socket G5			
131 108 LL W ³⁾	13100 0031	1 x T 16/8 W	1,3
131 208 LL	13100 0007	2 x T 16/8 W	0,9
131 108 LL EVG	13100 0047	1 x T 16/8 W	0,8
131 208 LL EVG	13100 0049	2 x T 16/8 W	0,8
for incandescent lamps, socket E14 or E27			
130 125 GL	13000 0006	E14; max. 1 x 25 W	0,35
130 215 GL	13000 0007	E14; 2 x 15 W	0,4
131 140 GL	13100 0011	E27; max. 1 x 40 W	0,9
131 225 GL	13100 0012	E14; 2 x 25 W	0,9

1) Weights without packing material

2) Lowest amb. temp.: -30°C

3) Uncomp.; article nos. for comp. see price list

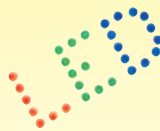
NEW
with higher efficiency



130/131... W LED

with high power LED

IP65



Application:

Similar to the standard design and especially suitable for wind power generators, areas difficult to reach, signalling device (also with pictogram) etc.

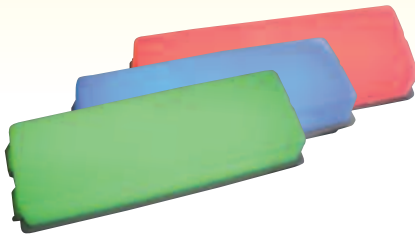
Electrical design:

As standard design but with white opaque polycarbonate glass, electronic ballast (200-240V, 50-60Hz, 176-264V DC) with overload and short circuit protection.

LED: High power LED 1W, 6.500K
Coloured LED for signalling on request.
Ambient temperature: -20°C to +30°C

Advantages of LED-version

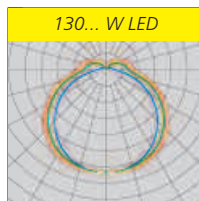
- up to **74%** energy savings in comparison to an 8W fluorescent lamp
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, Ta=25°C)
- low maintenance costs due to long maintenance intervals
- immediate full light output even at low temperatures
- ideal for frequent operating cycles
- resistant against shocks and vibrations
- with coloured LED especially suitable for signalling tasks
- excellent even illumination of the pictogram when used as emergency/escape route lighting



Series 130... with coloured LED for signalling tasks



Series 130... with pictogram



Type	Article no.	Qty. LED W		Weight ca. kg ¹⁾
130 201 W LED	13000 0029	2 x 1W	2,4 W	0,4
130 501 W LED	13000 0032	5 x 1W	6,0 W	0,4
130 601 W LED	13000 0030	6 x 1W	7,2 W	0,4
131 201 W LED	13100 0100	2 x 1W	2,4 W	0,5
131 601 W LED	13100 0101	6 x 1W	7,2 W	0,5

1)Weights without packing material

Note:

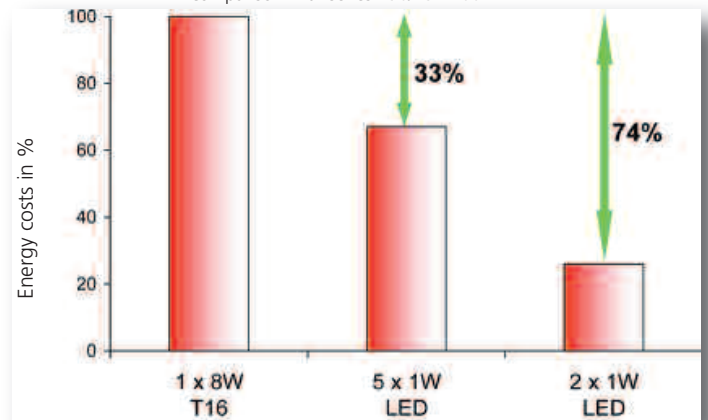
The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

Energy cost savings

with use of LED series 130/131...
in comparison with series 130/131 108

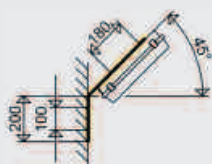




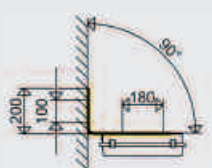
Further Series / Equipment

- in halogen-free version
- in insulation class II
- with satinised cover
- with covers in green/yellow/red/blue colour
- with coloured LED for signaling
- with cable entry in the back of the housing
- with 2nd entry for through-wiring system
- with wire guard (for sport centres) **series 130/131**
- with hexagon socket screw
- with monitoring system for connection to central or group battery unit
- for mounting to wall bracket (series 130.../131...
- as emergency light fitting (series 131... B/D see catalogue section „emergency light fittings“)
- as EXIT sign light fitting with legend for escape route identification
- for tunnel illumination
- in explosion-proof version for Zones 2 and 22 (series nD131... EVG see catalogue „ex-proof light fittings“)

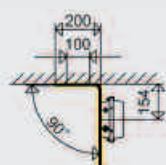
Wall bracket 45° (WA45)



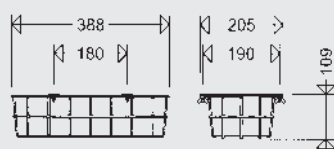
Wall bracket 90° (WA90)



Ceiling bracket (WA/DA 90 P)



Wire guard 130/131...



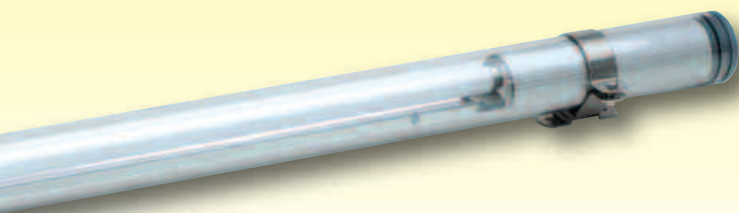
Accessories / Spare Parts

Type	Article no.	
Spare glass covers - PC, clear (polycarbonate)		
130 000	13011 9000	for series 130...
131 000	13111 9000	for series 131...
132 000	13211 9000	for series 132...
Spare covers - PC, opal-white (polycarbonate)		
130 000 W	13011 9001	for series 130...
131 000 W	13111 9001	for series 131...
132 000 W	13211 9001	for series 132...
Cable entries		
2510	90062 9000	spare-grommet, M16 (for 130...)
2511	90063 9000	spare-grommet, M20 (for 131/132...)
2561	25610 9000	plastic cable gland, M20 x 1,5 (for 131/132...)
Lamp holders for compact fluorescent lamps		
G 23	90253 9004	for series 130/131...
2 G 7	90253 9005	for series 130/131... EVG
2 G 11	90253 9006	for series 131/132... VVG/EVG
Lamp holders for		
G 5	90253 9007	for series 131...
Lamp holders for incandescent lamps		
E 14	90253 9008	for series 130/131...
E 27	90253 9000	for series 131...
Wire guard, hingeable		
SK 130/131/2	90004 0009	for 130... and 131...
Brackets		
WA 130/131	90232 0001	wall bracket with mounting plate for 130... and 131...
WA 45	90232 0002	wall bracket 45°, painted
WA 90	90232 0003	wall bracket 90°, painted
DA/WA 90 P	90232 0015	1 pair of wall/ceiling bracket 90°, painted
Legends, self-adhesive		
for escape route illumination acc. to VGB 125 and DIN 4844. Sighting distance acc. to DIN 5035 section 5 and DIN 4844 = 15m,		
265/76/3	90011 0002	 for 130/131... PW
Note: Further legends upon request.		

NEW

Note: Further legends upon request.

Tubular Polycarbonate Light Fitting Series 100...



Application:

Outdoor areas, such as public, commercial and industrial areas which are endangered by water jets, water spray, dusty atmospheres or high mechanical stress (vandalism).

Design:

Housing: impact and shatter resistant clear polycarbonate tube, Ø 70mm, wall thickness 4mm, high impact resistance (4 x IK10), flammability category B (flame resistant)

Fastener: tubular locking cap made of glass fibre reinforced plastic, with clamping ring and integrated gland M20 x

1,5. Outer clamping ring screwed to inner ring (safety screws M5), short captive seal ring.

Reflector: structured aluminium profile with brackets for mounting electric components.

Cable entry: 1 plastic cable gland M20 x 1,5.

Connecting terminal: 3-pole terminal

Through-wiring system: up to 3 x 1,5mm², optional.

Mounting: supplied with 2 stainless steel pipe clamps for ceiling or wall mounting.

SCHUCH Quality - Your advantage:

sturdy, weather-resistant and extremely rugged tubular light fitting for application in rough environments

- dust- and water-proof (IP67)

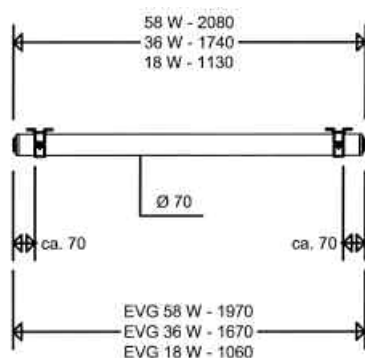
Especially suited for:

- areas endangered by water spray, water jets and water pressure, e.g. food industry, fish and meat processing plants with frequent and intensive cleaning cycles. (Note: please contact us regarding use where detergents and similar chemical materials occur), slaughter houses, washing bays, green houses, working pits, sewage treatment plants, sewage water systems, tunnels, etc.
- areas with dusty environment, e.g. wood-working industry, bakeries, mills,
- all outdoor areas

- high-impact resistant polycarbonate tube, wall thickness 4mm, IK-coefficient acc. to EN50102 4 x IK10 min. (Δ 20 Joules min.)

Especially suited for public areas with a high risk of vandalism e.g. tram and underground stations, law courts, underground passageways, park houses, schools, sports facilities etc.

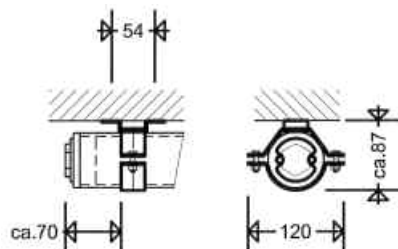
- flexible mounting with pipe clamps (stainless steel)



100...



Pipe clamp mounting



Type	Article no.	Lamps W	Weight ca. kg ²⁾
with low loss conventional ballast			
100 118	10001 0001 ¹⁾	1 x T 26/18 W	3,0
100 136	10001 0003 ¹⁾	1 x T 26/36 W	3,8
100 158	10001 0005 ¹⁾	1 x T 26/58 W	4,0

with electronic control gear (EVG)

Type	Article no.	Lamps W	Weight ca. kg ²⁾
100 118 EVG	10001 0007	1 x T 26/18 W	2,5
100 136 EVG	10001 0008	1 x T 26/36 W	3,3
100 158 EVG	10001 0009	1 x T 26/58 W	3,8

1) Uncomp.; article no. for comp. see price list

2) Weights without packing material

NEW

100... (T5)



Type	Article no.	Lamps W	Weight ca. kg ²⁾
100 128/54 ¹⁾	10001 0018	1 x T 16/28/54 W	2,8
100 135/49/80 ¹⁾	10001 0019	1 x T 16/35/49/80W	3,4
100 228/54 ¹⁾	10001 0020	2 x T 16/28/54 W	3,8
100 235/49 ¹⁾	10001 0021	2 x T 16/35/49 W	4,4

1)

2) Weights without packing material

Note:

Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

- FM for high light efficiency (14, 28, 35 W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C bis 70°C (24, 54, 80W)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.



Further Series / Equipment

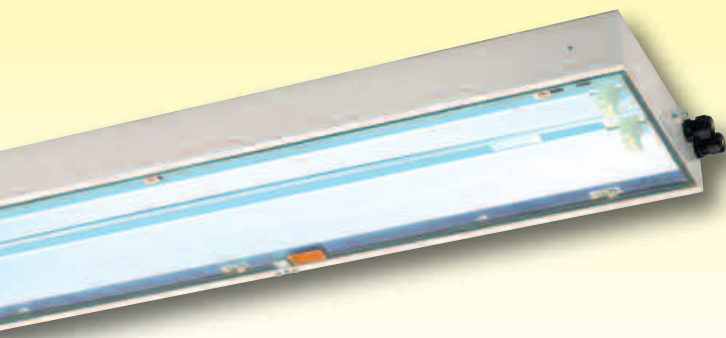
- with through wiring to 3 x 1.5mm²
- in protection class II

- for T5 fluorescent lamps (Ø 16mm), also for 2 lamps

Accessories / Spare Parts

Type	Article no.	
100/1 T5	10002 9007	lamp holder for T5 lamp
100/1 T8	10002 9001	lamp holder for T8 lamp
STF 100/2	10002 9002	starter holder
2561	25610 9000	plastic cable gland M20 x 1,5
100 RO 70 V	10002 9006	stainless steel pipe clamp
100 RD	10002 9004	ring seal
100 VK	10002 9005	sealing cap

Sheet Steel Light Fitting of Low Profile Design for Ceiling Mounting and Ceiling Recessed Installation Series 191/192...



Application:

Industrial, tradesmen's and commercial facilities with extreme conditions, aggressive environments (e.g. oil, grease) or high mechanical exposure, paint shops and spray booths (non-hazardous areas) etc.

Design:

Housing: sheet steel, optionally stainless steel, traffic white (RAL 9016), powder-coated.

Glass: hinged, frameless tempered safety glass.

Reflector: detachable, white painted sheet steel.

Central locking: operated by a 5mm Allen key, hinges on the opposite side.

Electrical connection: 3-pole terminal block (max 2,5mm²).

Cable entries: 3 entries M25x1.5 (1 cable gland and 2 blanking plugs).

Through-wiring: classic, up to 5 x 2,5mm². Also available for looping in/out at one end.

Mounting: 4 angle brackets (included) or separate frame for recessed installation (see series ... EB).

Note:

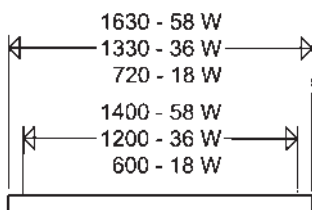
Ask for stainless steel versions in case of permanent humidity or corrosive atmosphere presence. Special versions available for extreme conditions (short cycle operation, e.g. rain storage reservoirs or wastewater treatment plants and equivalent).

STAINLESS STEEL
corrosion resistant

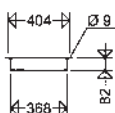
SCHUCH quality - Your advantage:

- robust and high chemical resistant design for a long-life in rough industrial conditions
  - housing made of powder-coated sheet steel or stainless steel
  - frameless safety glass or framed polycarbonate glass
  - sturdy central-locking system and high quality stainless steel hinges
- easy to mount and maintain
  - Original SCHUCH central locking-system with hinged safety glass for easy lamp replacement
  - easily accessible connection compartment under hinged reflector
  - fast and cost-saving through wiring by looping system at one end of the housing (on request)
- high operating efficiency due to optimized light-technical anodized pure aluminium mirror-finish reflector
- flexible and suitable for a wide range of applications in various environmental conditions
  - suitable for surface or flush mounting in suspended or insulated ceilings as well as recesses in concrete ceilings.
  - suitable for Ø 16mm, Ø 38mm, and Ø 26mm fluorescent lamps
  - separate frame for recessed installation and swivel arm mounting system for retrofitting (building-block system), thus offering high application flexibility and economic stock-keeping.
  - versions for use in blasting locations or cabins, for use in the food industry, for use in potentially explosive atmospheres (series e191/192... see catalogue section "Explosion-proof light fittings"), and other modified versions (see "Further Series / Versions").

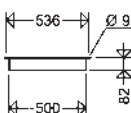
STAINLESS STEEL
corrosion resistant



191...



192...



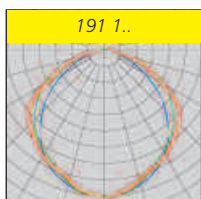
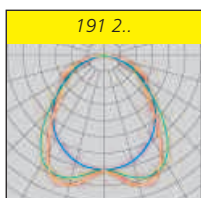
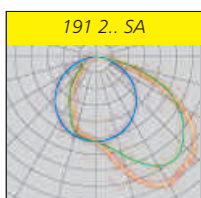
191 1..



191 2..



191 2.. SA



191... surface and flush mounting light fittings



Type	Article no.	Lamps W	Weight ca. kg ²⁾
symmetrical mirror-type reflector			
191 118	19101 0001 ¹⁾	1 x T 26/18 W	8,8
191 218	19101 0003 ¹⁾	2 x T 26/18 W	9,4
191 136	19101 0005 ¹⁾	1 x T 26/36 W	16,0
191 236	19101 0007 ¹⁾	2 x T 26/36 W	16,8
191 158	19101 0009 ¹⁾	1 x T 26/58 W	19,4
191 258	19101 0011 ¹⁾	2 x T 26/58 W	20,6
asymmetrical mirror-type reflector			
191 218 SA	19101 0069 ¹⁾	2 x T 26/18 W	9,4
191 236 SA	19101 0071 ¹⁾	2 x T 26/36 W	16,8
191 258 SA	19101 0073 ¹⁾	2 x T 26/58 W	20,6
symmetrical mirror-type reflector			
191 118 EVG	19101 0013	1 x T 26/18 W	8,5
191 218 EVG	19101 0014	2 x T 26/18 W	8,6
191 136 EVG	19101 0015	1 x T 26/36 W	15,5
191 236 EVG	19101 0016	2 x T 26/36 W	15,6
191 158 EVG	19101 0017	1 x T 26/58 W	18,5
191 258 EVG	19101 0018	2 x T 26/58 W	18,6
asymmetrical mirror-type reflector			
191 218 SA EVG	19101 0075	2 x T 26/18 W	8,6
191 236 SA EVG	19101 0076	2 x T 26/36 W	15,6
191 258 SA EVG	19101 0077	2 x T 26/58 W	18,6

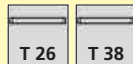
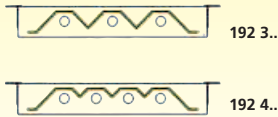
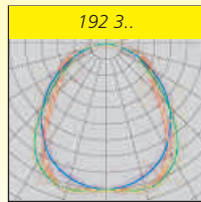
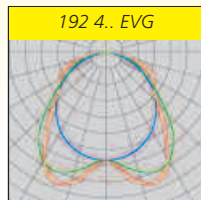
1) Uncomp.; article no. for comp. see price list

2) Weights without packing material

192...



surface and flush mounting light fitting



Type	Article no.	Lamps W	Weight ca. kg ²⁾
with symmetrical mirror-type reflector			
192 318	19101 0201 ¹⁾	3 x T 26/18 W	16,2
192 418	19101 0203 ¹⁾	4 x T 26/18 W	16,2
192 336	19101 0205 ¹⁾	3 x T 26/36 W	24,5
192 436	19101 0207 ¹⁾	4 x T 26/36 W	25,1
192 358	19101 0209 ¹⁾	3 x T 26/58 W	28,5
192 458	19101 0211 ¹⁾	4 x T 26/58 W	29,7



with symmetrical mirror-type reflector			
192 318 EVG	19101 0213	3 x T 26/18 W	15,6
192 418 EVG	19101 0214	4 x T 26/18 W	15,7
192 336 EVG	19101 0215	3 x T 26/36 W	22,6
192 436 EVG	19101 0216	4 x T 26/36 W	22,7
192 358 EVG	19101 0217	3 x T 26/58 W	25,6
192 458 EVG	19101 0218	4 x T 26/58 W	25,7

1) Uncomp.; article nos. for comp. see price list 2) Weights without packing material

Note:

Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

- FM for high light efficiency (14, 28, 35W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C to 70°C (24, 54, 80W)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.

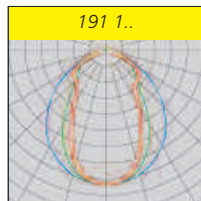
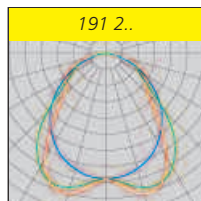
191/192... (T5)



for T5 fluorescent lamps (Ø 16mm)



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
with symmetrical mirror-type reflector			
191 114	19103 0001	1 x T16/14W	8,5
191 124	19103 0002	1 x T16/24W	8,5
191 128	19103 0003	1 x T16/28W	15,5
191 154	19103 0004	1 x T16/54W	15,5
191 135	19103 0005	1 x T16/35W	18,5
191 149	19103 0006	1 x T16/49W	18,5
191 180	19103 0007	1 x T16/80W	18,5



191 214	19103 0008	2 x T16/14W	8,6
191 224	19103 0009	2 x T16/24W	8,6
191 228	19103 0010	2 x T16/28W	15,6
191 254	19103 0011	2 x T16/54W	15,6
191 235	19103 0012	2 x T16/35W	18,6
191 249	19103 0013	2 x T16/49W	18,6
191 280	19103 0014	2 x T16/80W	18,6

with symmetrical mirror-type reflector			
191 214 SA	19103 0029	2 x T16/14W	8,6
191 224 SA	19103 0030	2 x T16/24W	8,6
191 228 SA	19103 0031	2 x T16/28W	15,6
191 254 SA	19103 0032	2 x T16/54W	15,6
191 235 SA	19103 0033	2 x T16/35W	18,6
191 249 SA	19103 0034	2 x T16/49W	18,6
191 280 SA	19103 0035	2 x T16/80W	18,6

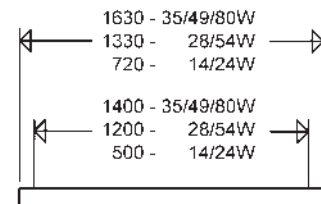
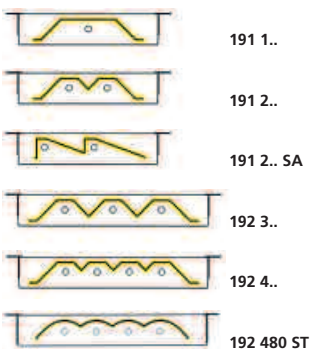
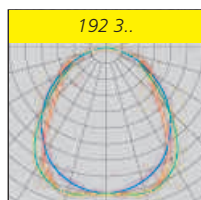
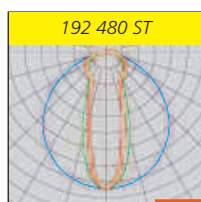
with symmetrical mirror-type reflector			
192 314	19103 0201	3 x T16/14W	15,6
192 324	19103 0202	3 x T16/24W	15,6
192 328	19103 0203	3 x T16/28W	22,6
192 354	19103 0204	3 x T16/54W	22,6
192 335	19103 0205	3 x T16/35W	25,6
192 349	19103 0206	3 x T16/49W	25,6
192 380	19103 0207	3 x T16/80W	25,6

192 414	19103 0208	4 x T16/14W	15,7
192 424	19103 0209	4 x T16/24W	15,7
192 428	19103 0210	4 x T16/28W	22,7
192 454	19103 0211	4 x T16/54W	22,7
192 435	19103 0212	4 x T16/35W	25,7
192 449	19103 0213	4 x T16/49W	25,7
192 480	19103 0214	4 x T16/80W	25,7

with narrow beam reflector for high mounting heights			
192 480 ST	19103 0241	4 x T16/80W	25,7

1) Weights without packing material

Dustproof/Waterproof
Light Fittings

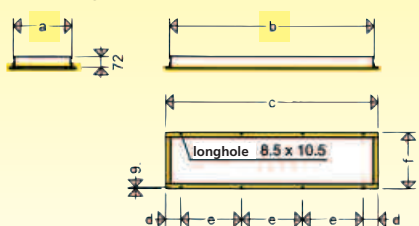


NEW



Frame for Recessed Mounting

Mounting Dimensions



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

Note: The additional length of the cable entry must be taken in to account when mounting!

retrofit!

Light fittings of the series 191 / 192... can also be adapted for flush mounting in ceilings or walls using a separately supplied frame.

The light fitting is mounted using M5 screws along the long sides (see dimension drawing.).

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

Note:

When inquiring / ordering, please state the type of ceiling in which the light fitting is to be mounted. With certain ceiling designs, it may be necessary to move the cable entry to the rear of the light fitting.

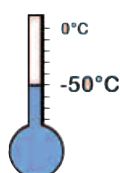
Mounting possibilities:

- in suspended ceilings (standard, when no specification is given).
- in recesses in concrete walls.
- in insulated ceilings acc. to EN 60598

191 470 T.. H..



for low ambient temperatures to -50°C



Application:

Cold rooms (automobile industry), frequently opened small cold stores with a high number of switching cycles.

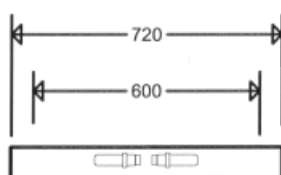
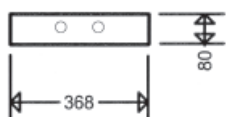
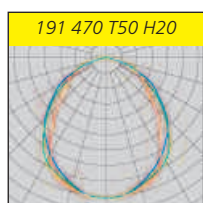
Advantage:

instant full luminous flux when switching

on light fitting.

Design:

As standard type but with anodized pure aluminium mirror finish reflector, silicon free.



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
for halide lamps, socket E27 (silicon free)			
191 470 T50 H20	19104 0001	4 x QT/70 W	8,7

1) Weights without packing material

Note: Reducing the voltage by 10% extends the life time of the halogen lamp by a factor of 3!

Further Series / Equipment

- with up to 4 cable entries
- with different cable glands
- with through-wiring up to max. 5 x 2.5mm²
- with 2 individual electronic ballasts and monitoring device or emergency power supply unit for individual monitoring of the light fitting connected to group or central battery systems.

- as painted stainless steel version
- in silicone-free version
- as FF version
- as Ex version Zone 1 (series e191/192...)
- as Ex version Zone 2 (series nD191/192...)
- as emergency light fitting

STAINLESS STEEL
corrosion resistant

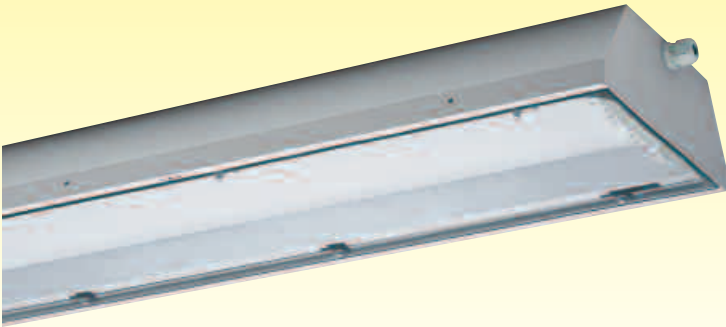


Accessories / Spare Parts

Type	Article no.	
Spare safety glass		
182 18-1	18090 9004	for narrow housing; 1 and 2 x 18 W
182 36-1	18090 9005	for narrow housing; 1 and 2 x 36 W
182 58-1	18090 9006	for narrow housing; 1 and 2 x 58 W
192 18-1	19190 9003	for wide housing; 3 and 4 x 18 W
192 36-1	19190 9004	for wide housing; 3 and 4 x 36 W
192 58-1	19190 9005	for wide housing; 3 and 4 x 58 W
Cable entries		
2560	25600 9000	plastic cable gland M25x1,5
2572	25720 9000	threaded blanking plug M25x1,5
Lamp holder		
177/1	17703 9000	without starter holder
177/2	17703 9001	with starter holder
190	90056 9007	starter holder

See end of section "dustproof/waterproof light fittings" for through-wiring options.

Sheet Steel Light Fittings with Tapered Body Series 181/182...



Note:

For installation in continuously humid and corrosive atmospheres request stainless steel light fittings.

Application:

Industrial, tradesmen's and commercial facilities with extreme conditions, aggressive environments (e.g. oil, grease) or high mechanical exposure, paint shops and spray booths (non-hazardous areas), etc.

Design:

Housing: sheet steel, optionally stainless steel, traffic white (RAL 9016), powder-coated.

Glass: hinged, frameless, tempered safety glass.

Reflector: detachable, white painted sheet steel.

Central locking: operated by a 5mm Allen key, hinges on the opposite side.

Electrical connection: 3-pole terminal block (max 2.5mm²).

Cable entries: 3 entries M25x1.5 (1 cable gland and 2 blanking plugs).

Through-wiring: classic, up to 5 x 2,5mm². Also available for looping in/out at one end.

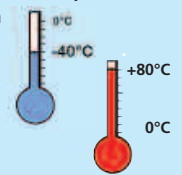
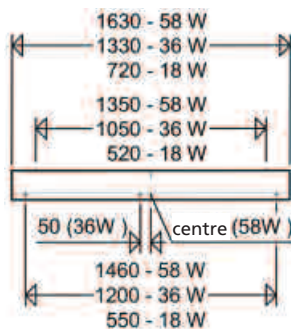
Mounting: 2 eye brackets (H8V P) or 2 ceiling brackets (15A P) (see Accessories / Spare Parts).

SCHUCH quality - Your advantage:

- robust and high chemical resistant design for a long life in extreme industrial conditions**
  - housing made of powder-coated sheet steel or stainless steel
  - frameless safety glass or framed polycarbonate glass
  - sturdy central-locking system and internal mounted hinges
- easy to mount and maintain**
  - central locking-system with hinged safety glass for easy lamp replacement
  - easily accessible connection compartment under hinged reflector
  - fast and cost-saving through-wiring with looping system at one end of the housing (on request)
- flexible and suitable for a wide range of applications in various environmental conditions**
  - suitable for Ø 16mm, Ø 38mm, and Ø 26mm fluorescent lamps
  - separate frame for recessed installation and swivel arm mounting system for retrofitting (building-block system), thus offering high application flexibility and economic stock-keeping.
  - **version SSK** for use in blasting locations or cabins, **version PC** for use in the food industry, **version S** for use in halls with high ceilings such as high-bay stores or cool-room stores, **version H** for use in high ambient temperatures up to +80°C, **version T** for use in low temperatures down to -40°C, **series e and nD** 181/182... for use in potentially explosive atmospheres (see catalogue section "Explosion-protected light fittings"), **emergency lighting series** and many other modified versions (see "Further Series / Versions")

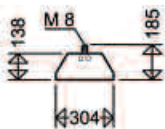
STAINLESS STEEL
corrosion resistant

Auf
Open
Zu
Close
Ouvrir
Fermer



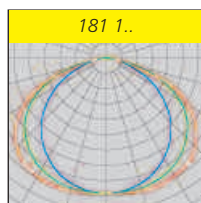
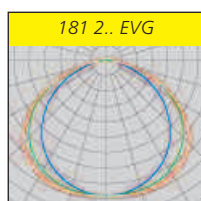
fixing dimensions for recess mounting frame

181... with suspension brackets H8V P



181...

surface and flush mounting light fittings



Type	Article no.	Lamps W	Weight ca. kg ²⁾
narrow housing			
181 118 ¹⁾	18002 0001	1 x T 26/18 W	10,1
181 218 ¹⁾	18002 0003	2 x T 26/18 W	10,3
181 318 ¹⁾	18002 0019	3 x T 26/18 W	10,3
181 136 ¹⁾	18002 0005	1 x T 26/36 W	16,6
181 236 ¹⁾	18002 0007	2 x T 26/36 W	17,4
181 336 ¹⁾	18002 0021	3 x T 26/36 W	18,6
181 158 ¹⁾	18002 0009	1 x T 26/58 W	21,0
181 258 ¹⁾	18002 0011	2 x T 26/58 W	22,3
181 358 ¹⁾	18002 0023	3 x T 26/58 W	24,2

... with electronic ballast (EVG)

181 118 EVG	18002 0013	1 x T 26/18 W	9,7
181 218 EVG	18002 0014	2 x T 26/18 W	9,7
181 318 EVG	18002 0024	3 x T 26/18 W	9,9
181 136 EVG	18002 0015	1 x T 26/36 W	16,5
181 236 EVG	18002 0016	2 x T 26/36 W	16,5
181 336 EVG	18002 0025	3 x T 26/36 W	17,4
181 158 EVG	18002 0017	1 x T 26/58 W	18,2
181 258 EVG	18002 0018	2 x T 26/58 W	20,9
181 358 EVG	18002 0026	3 x T 26/58 W	21,1

1) Uncomp.; article no. for comp. see price list

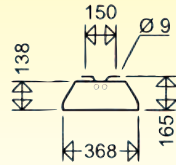
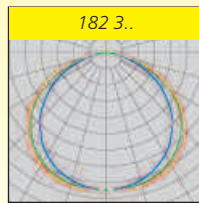
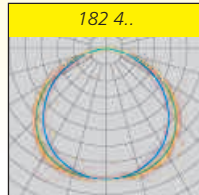
2) Weights without packing material

182...



surface and flush mounting light fittings

182 ... with ceiling brackets 15A P



Type	Article no.	Lamps W	Weight ca. kg ²⁾

wide housing, with low loss conventional ballast

182 318 ¹⁾	18002 0201	3 x T 26/18 W	15,2
182 418 ¹⁾	18002 0203	4 x T 26/18 W	15,3
182 336 ¹⁾	18002 0205	3 x T 26/36 W	19,6
182 436 ¹⁾	18002 0207	4 x T 26/36 W	23,3
182 358 ¹⁾	18002 0209	3 x T 26/58 W	25,2
182 458 ¹⁾	18002 0211	4 x T 26/58 W	26,2



..., with electronic ballast (EVG)

182 318 EVG	18002 0213	3 x T 26/18 W	14,5
182 418 EVG	18002 0214	4 x T 26/18 W	10,5
182 336 EVG	18002 0215	3 x T 26/36 W	18,4
182 436 EVG	18002 0216	4 x T 26/36 W	22,6
182 358 EVG	18002 0217	3 x T 26/58 W	24,2
182 458 EVG	18002 0218	4 x T 26/58 W	24,0

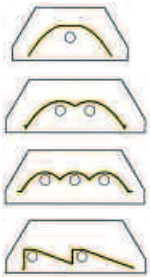
1) Uncomp., article nos. for comp. see price list

2) Weights without packing material

181/182... S.



mirror-type reflector designs

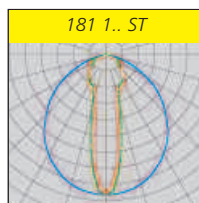


181 1.. ST

182 2.. ST

182 3.. ST

182 2.. SA



Application:

Industrial and commercial storage facilities, storage areas and walkways with light point heights up to 16m.

Design:

As 181/182... but with a high efficiency, mirror-finish reflector made from anodized pure aluminium.

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾

wide beam, narrow housing

181 136 ST	18400 0101	1 x T 26/36 W	18,4
181 158 ST	18400 0103	1 x T 26/58 W	21,8

wide beam, wide housing

182 236 ST	18500 0101	2 x T 26/36 W	16,5
182 336 ST	18500 0105	3 x T 26/36 W	19,8
182 258 ST	18500 0103	2 x T 26/58 W	22,8
182 358 ST	18500 0107	3 x T 26/58 W	22,0

asymmetric beam, wide housing

182 236 SA	18500 0125	2 x T 26/36 W	19,0
182 258 SA	18500 0127	2 x T 26/58 W	22,7

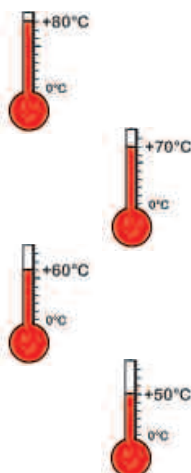
1) Uncomp., article nos. for comp. see price list

2) Weights without packing material

181/182... H..



for high ambient temperatures up to +80°C



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾

narrow housing

181 118 H80	18002 0106	1 x T 26/18 W	11,0
181 218 H80	18002 0105	2 x T 26/18 W	11,3
181 136 H80	18002 0101	1 x T 26/36 W	17,5
181 236 H80	18002 0103	2 x T 26/36 W	18,3
181 158 H70	18002 0109	1 x T 26/58 W	21,3
181 318 H60	18002 0107	3 x T 26/18 W	10,3
181 336 H60	18002 0108	3 x T 26/36 W	18,6
181 258 H60	18002 0110	2 x T 26/58 W	22,7
181 358 H50	18002 0111	3 x T 26/58 W	22,8

wide housing

182 336 H80	18002 0301	3 x T 26/36 W	20,4
182 318 H60	18002 0305	3 x T 26/18 W	15,2
182 418 H60	18002 0306	4 x T 26/18 W	15,3
182 436 H60	18002 0307	4 x T 26/36 W	23,3
182 358 H60	18002 0303	3 x T 26/58 W	27,2
182 458 H50	18002 0304	4 x T 26/58 W	27,3

1) Uncompensated available only

2) Weights without packing material

Note:

EVG version for high ambient temperatures on request.

Note:

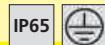
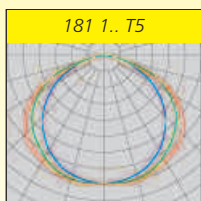
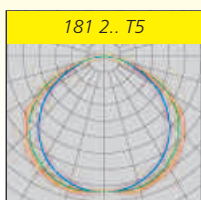
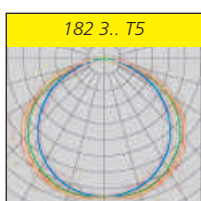
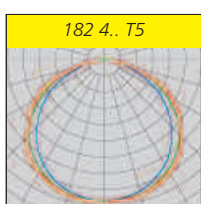
Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

- FM for high light efficiency (14, 28, 35W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C to 70°C (24, 54, 80W)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.

181/182... (T5)

for T5 fluorescent lamps (Ø 16mm)



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
narrow housing, 1 lamp			
181 114	18005 0001	1 x T 16/14 W	9,3
181 124	18005 0002	1 x T 16/24 W	9,3
181 128	18005 0003	1 x T 16/28 W	17,2
181 154	18005 0004	1 x T 16/54 W	17,2
181 135	18005 0005	1 x T 16/35 W	20,2
181 149	18005 0006	1 x T 16/49 W	20,2
181 180	18005 0007	1 x T 16/80 W	20,2
narrow housing, 2 lamp			
181 214	18005 0008	2 x T 16/14 W	9,4
181 224	18005 0009	2 x T 16/24 W	9,4
181 228	18005 0010	2 x T 16/28 W	17,3
181 254	18005 0011	2 x T 16/54 W	17,3
181 235	18005 0012	2 x T 16/35 W	20,3
181 249	18005 0013	2 x T 16/49 W	20,3
181 280	18005 0014	2 x T 16/80 W	20,3
wide housing, 3 lamp			
182 314	18005 0501	3 x T 16/14 W	14,4
182 324	18005 0502	3 x T 16/24 W	14,4
182 328	18005 0503	3 x T 16/28 W	22,4
182 354	18005 0504	3 x T 16/54 W	22,4
182 335	18005 0505	3 x T 16/35 W	26,4
182 349	18005 0506	3 x T 16/49 W	26,4
182 380	18005 0507	3 x T 16/80 W	26,4
wide housing, 4 lamp			
182 414	18005 0508	4 x T 16/14 W	14,5
182 424	18005 0509	4 x T 16/24 W	14,5
182 428	18005 0510	4 x T 16/28 W	22,5
182 454	18005 0511	4 x T 16/54 W	22,5
182 435	18005 0512	4 x T 16/35 W	26,5
182 449	18005 0513	4 x T 16/49 W	26,5
182 480	18005 0514	4 x T 16/80 W	26,5

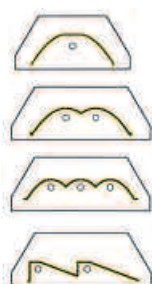
1) Weights without packing material

181/182... S. (T5)

with highly polished, mirror-type reflectors for high ceilings



mirror-type reflector designs

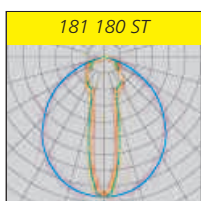
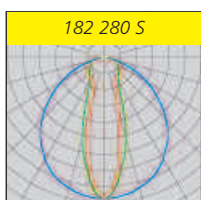
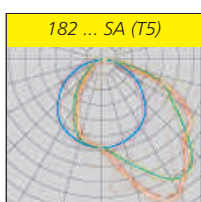


181 1.. ST

182 2.. ST

182 3.. ST

182 2.. SA



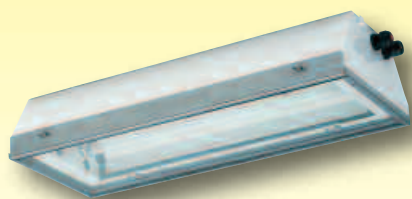
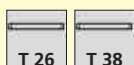
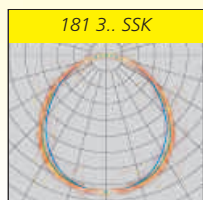
Type	Article no.	Lamps W	Weight ca. kg ¹⁾
narrow housing, wide beam, 1 lamp			
181 128 ST	18005 0103	1 x T 16/28 W	18,0
181 154 ST	18005 0104	1 x T 16/54 W	18,0
181 135 ST	18005 0105	1 x T 16/35 W	21,1
181 149 ST	18005 0106	1 x T 16/49 W	21,1
181 180 ST	18005 0107	1 x T 16/80 W	21,1
wide housing, symmetric beam, 2 lamp			
182 228 S	18005 0603	2 x T 16/28 W	21,5
182 254 S	18005 0604	2 x T 16/54 W	21,5
182 235 S	18005 0605	2 x T 16/35 W	25,5
182 249 S	18005 0606	2 x T 16/49 W	25,5
182 280 S	18005 0607	2 x T 16/80 W	25,5
wide housing, symmetric beam, 3 lamp			
182 328 S	18005 0610	3 x T 16/28 W	21,9
182 354 S	18005 0611	3 x T 16/54 W	21,9
182 335 S	18005 0612	3 x T 16/35 W	25,9
182 349 S	18005 0613	3 x T 16/49 W	25,9
181 380 S	18005 0614	3 x T 16/80 W	25,9
wide housing, asymmetric beam, 2 lamp			
182 228 SA	18005 0617	2 x T 16/28 W	21,5
182 254 SA	18005 0618	2 x T 16/54 W	21,5
182 235 SA	18005 0619	2 x T 16/35 W	25,5
182 249 SA	18005 0620	2 x T 16/49 W	25,5
182 280 SA	18005 0621	2 x T 16/80 W	25,5

1) Weights without packing material

Dustproof/Waterproof
Light Fittings

181/182... SSK

for blasting areas and cabins



Application:

Rooms and cabins where sand and glass pearl etc. are used for the treatment of goods.

Design:

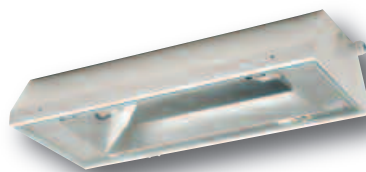
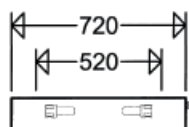
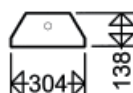
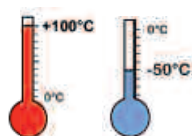
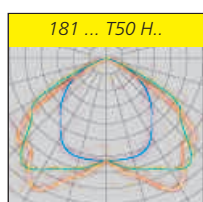
As standard type, but with easily replaceable, polycarbonate protective cover with stainless steel frame in front of the safety glass window to protect it from damage by the blasting material.

Type	Article no.	Lamps W	Weight ca. kg ²⁾
narrow housing			
181 118 SSK	18002 0400	1 x T 26/18 W	9,6
181 218 SSK	18002 0402	2 x T 26/18 W	9,7
181 318 SSK	18002 0404	3 x T 26/18 W	10,3
181 136 SSK	18002 0406	1 x T 26/36 W	17,6
181 236 SSK	18002 0408	2 x T 26/36 W	18,2
181 336 SSK	18002 0410	3 x T 26/36 W	18,8
181 158 SSK	18002 0412	1 x T 26/58 W	21,0
181 258 SSK	18002 0414	2 x T 26/58 W	27,1
181 358 SSK	18002 0416	3 x T 26/58 W	28,0
wide housing			
182 318 SSK	18002 0450	3 x T 26/18 W	15,2
182 418 SSK	18002 0452	4 x T 26/18 W	15,3
182 336 SSK	18002 0454	3 x T 26/36 W	23,2
182 436 SSK	18002 0456	4 x T 26/36 W	23,3
182 358 SSK	18002 0458	3 x T 26/58 W	28,8
182 458 SSK	18002 0460	4 x T 26/58 W	29,6

1) Uncomp.; article nos. for comp. and EVG versions see price list
2) Weights without packing material

181... T.. H..

for high and low ambient temperatures



Application:

Cold rooms, ageing chambers (automobile industry), frequently opened small cold stores with a high number of switching cycles, material testing facilities, plastic fibre manufacturing installations, etc

Advantage:

Instant full luminous flux when switching on light fitting.

Design:

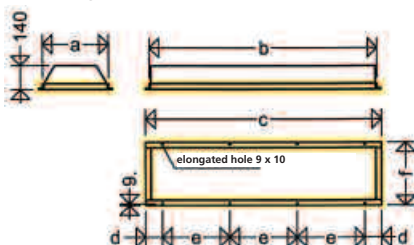
As standard type, but with anodized pure aluminium mirror finish reflector, silicone-free (except version ... T50 H100).

Type	Article no.	Lamps W	Weight ca. kg ²⁾
for halide lamps, lamp holder E27 (silicone-free)			
181 270 T50 H90	18002 0115	2 x QT/70 W	8,4
181 270 T50 H100 ¹⁾	18002 0116	2 x QT/70 W	8,4
181 100/2 T50 H75	18002 0113	2 x QT/100 W	8,4

1) With silicone seal
2) Weights without packing material

Note: By reducing voltage 10% the life of the halide lamp will increase by a factor of 3!

mounting dimensions



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

Note: The additional length of the cable entry must be taken in to account when mounting!

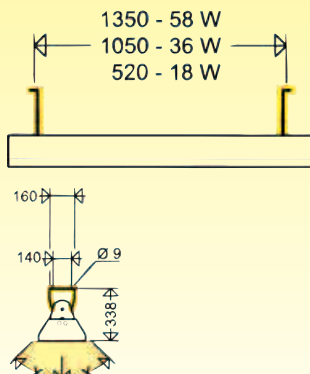
Frames for Recessed Mounting



Light fittings series 181 / 182... can also be adapted for flush mounting using a separately supplied frame.

The light fitting is mounted using M5 screws along the long sides.

Type	Article no.
EB 181/18	18091 0001 for narrow housing; 1, 2 and 3 x 18 W
EB 181/36	18091 0002 for narrow housing; 1, 2 and 3 x 36 W
EB 181/58	18091 0003 for narrow housing; 1, 2 and 3 x 58 W
EB 182/18	18091 0004 for wide housing; 3 and 4 x 18 W
EB 182/36	18091 0005 for wide housing; 3 and 4 x 36 W
EB 182/58	18091 0006 for wide housing; 3 and 4 x 58 W



swivel angle 150°

Swivel Arm Mounting System

retrofit!

Light fittings series 181 / 182... can also be adapted for swivel mounting using separately supplied swivel arm mounting accessories. The swivel mounting

brackets are screwed to the light fitting at the suspension points. Swivel angle $\pm 75^\circ$ (see dimension drawing).

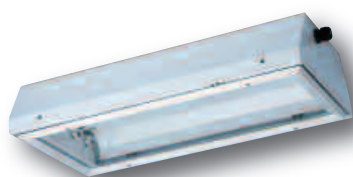
Type	Article no.	
SWA 181/182	18092 0001	for all lamp lengths, consisting of 2 swivel brackets and screws M8

Further Series / Equipment

- with up to 4 cable entries
- with different cable glands
- with single-end loop-in/loop-out wiring
- with through wiring up to max. 5 x 2.5mm²
- with asymmetric mirror-type reflector
- with 2 individual electronic ballasts and monitoring device or emergency power supply unit for individual monitoring of the light fitting connected to group or central battery systems.

- in silicone-free version
- as painted stainless steel version
- as D version
- as Ex version Zone 1 (series e181/182...)
- as Ex version Zone 2 (series nD181/182...)
- as emergency light fitting
- for low ambient temperatures to -30°C

STAINLESS STEEL
corrosion resistant



NEW

Series 181/182... PC for food industry areas

Mainly for applications in the food and food processing industries, we also supply the light fittings of the series 181.../182... with a polycarbonate glass and a screwed-on stabilization frame instead of the single layer safety glass. The light fitting then meets the requirements of the International Food Standard (IFS) for use in risk areas of the food and food processing plants.

With anti-bacterial painting

If required the housing of our series 181/182... IFS can be supplied with a special anti-bacterial paint. Especially recommended for dairies, milk-processing plants, fruit juice industry and fish-processing plants. Please consult us in case of interest.

Advantages:

- limits bacteria growth on the housing surface
- good long term effect
- noticeable reduction in the need of disinfectants and increase in the disinfection cycle

Accessories / Spare Parts

Type	Article no.	
Spare safety-glass		
181 18-1	18090 9001	for narrow housing; 1,2 and 3 x 18 W
181 36-1	18090 9002	for narrow housing; 1,2 and 3 x 36 W
181 58-1	18090 9003	for narrow housing; 1,2 and 3 x 58 W
182 18-1	18090 9004	for wide housing; 3 and 4 x 18 W
182 36-1	18090 9005	for wide housing; 3 and 4 x 36 W
182 58-1	18090 9006	for wide housing; 3 and 4 x 58 W
PC- safety glass for series 181/182... PC		
181 18-1 PC	18090 9007	for narrow housing; 1,2 and 3 x 18 W
181 36-1 PC	18090 9008	for narrow housing; 1,2 and 3 x 36 W
181 58-1 PC	18090 9009	for narrow housing; 1,2 and 3 x 58 W
182 18-1 PC	18090 9010	for wide housing; 3 and 4 x 18 W
182 36-1 PC	18090 9011	for wide housing; 3 and 4 x 36 W
182 58-1 PC	18090 9012	for wide housing; 3 and 4 x 58 W
PC- safety glass for series 181/182... SSK		
181 18-1 PC SSK	18090 9013	for narrow housing; 1,2 and 3 x 18 W
181 36-1 PC SSK	18090 9014	for narrow housing; 1,2 and 3 x 36 W
181 58-1 PC SSK	18090 9015	for narrow housing; 1,2 and 3 x 58 W
182 18-1 PC SSK	18090 9016	for wide housing; 3 and 4 x 18 W
182 36-1 PC SSK	18090 9017	for wide housing; 3 and 4 x 36 W
182 58-1 PC SSK	18090 9018	for wide housing; 3 and 4 x 58 W
Lamp holders		
177/1	17703 9000	without starter holder
177/2	17703 9001	with starter holder
STF 182	90138 9002	starter holder
182/1 T140	90056 9005	lamp holder (from AT +50°C)
Mounting accessories		
H8 V P	90001 0002	1 pair suspension brackets with screws M8, stainless steel
15A P	90000 0002	1 pair ceiling brackets, galvanized steel
15A V P	90032 0002	1 pair ceiling brackets, stainless steel
WD 45 P	26000 0005	1 pair wall and ceiling angle brackets 45°

Mounting accessories

Suspension brackets H8V P



Ceiling brackets 15A P



Wall and ceiling angle brackets 45° WD 45P

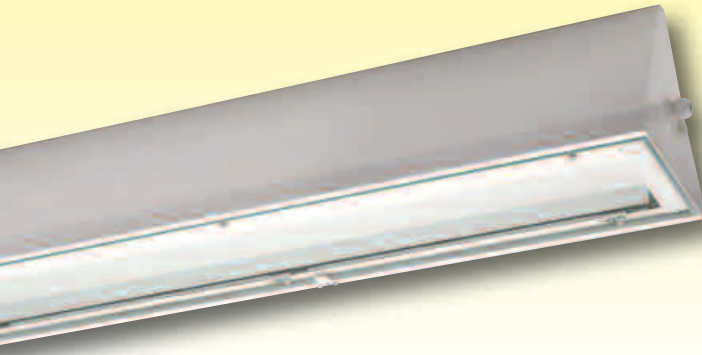


Note:

When using the carrier rail TRS 2000 the mounting accessories for TRS 2000 EX should be used (see section Ex-light fittings).

See end of section "Dustproof/Waterproof light fittings" for through-wiring options.

Sheet Steel Light Fittings for Rooms with a High Exposure to Dust Series 187/188...



Application:

Rooms with high ambient temperatures, excessive exposure to dirt and dust, as well as rooms with a high fire risk due to layers of dusts and fibres e.g. farm buildings (straw and hay stores), carpentry workshops, sawdust depots, cement works, plaster stores etc.

Design:

Housing: sheet steel, optionally stainless steel, traffic white (RAL 9016), powder-coated.

Glass: hinged, frameless tempered safety glass pane.

Reflector: detachable, white painted

sheet steel.

Central locking: operated by a 5mm Allen key, hinges on the opposite side.

Electrical connection: 3-pole terminal block (max 2,5mm²).

Cable entries: 3 entries M25x1.5 (1 cable gland and 2 blanking plugs).

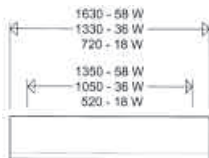
Through-wiring: classical, up to 5 x 2.5mm², as well as looping in/out at one end available on request.

Mounting: 2 eye bolts (RS 6), (see Accessories / Spare Parts).

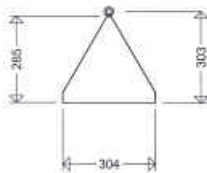
Note:

For installation in continuously humid and corrosive atmospheres request stainless steel light fittings.

STAINLESS STEEL
corrosion resistant

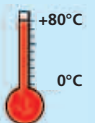


Befestigung RS 6



SCHUCH quality - your advantage:

- robust and high chemical resistant design for a long life in extreme industrial conditions**
  - special tapered design of housing to avoid dust deposits, made of powder-coated sheet steel or stainless steel
  - frameless safety glass or framed polycarbonate glass
  - sturdy central-locking system and internal mounted hinges
- easy to mount and maintain**
  - central locking-system with hinged safety glass for easy lamp replacement
  - easily accessible connection compartment under hinged reflector
  - fast and cost-saving through-wiring with looping system at one end of the housing (on request)
- flexible and suitable for a wide range of applications in various environmental conditions**
  - extended permissible ambient temperature from -20°C to +50°C
  - with its dust-repellent, tapered shape, it is especially suitable for all areas with excessive exposure to dirt and dust, as well as rooms with a high fire risk.
  - **version PC** for use in the food industry, **version T5** for use with fluorescent lamps Ø 16mm, **version S** with polished mirror reflector for use in halls with high ceilings, **version H** for use in high ambient temperatures, **series e and nD 187/188...** for use in potentially explosive dust atmospheres Zone 2 and 22 (see catalogue section "Explosion-protected light fittings"), and many other modified versions (see "Further Series / Versions")



187...



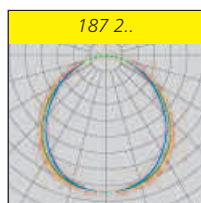
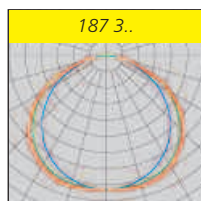
narrow housing



Type	Article no.	Lamps W	Weight ca. kg ²⁾
187 118	18702 0001 ¹⁾	1 x T 26/18W	10,3
187 218	18702 0003 ¹⁾	2 x T 26/18W	10,3
187 318	18702 0019 ¹⁾	3 x T 26/18W	10,7
187 136	18702 0005 ¹⁾	1 x T 26/36W	17,2
187 236	18702 0007 ¹⁾	2 x T 26/36W	17,7
187 336	18702 0021 ¹⁾	3 x T 26/36W	18,1
187 158	18702 0009 ¹⁾	1 x T 26/58W	21,5
187 258	18702 0011 ¹⁾	2 x T 26/58W	22,1
187 358	18702 0023 ¹⁾	3 x T 26/58W	22,7
187 118 EVG	18702 0013	1 x T 26/18W	10,0
187 218 EVG	18702 0014	2 x T 26/18W	10,0
187 318 EVG	18702 0025	3 x T 26/18W	10,2
187 136 EVG	18702 0015	1 x T 26/36W	17,0
187 236 EVG	18702 0016	2 x T 26/36W	17,0
187 336 EVG	18702 0026	3 x T 26/36W	17,2
187 158 EVG	18702 0017	1 x T 26/58W	21,0
187 258 EVG	18702 0018	2 x T 26/58W	21,0
187 358 EVG	18702 0027	3 x T 26/58W	21,2

1) Uncomp., art. nos. for comp. see price list

2) Weights without packing material

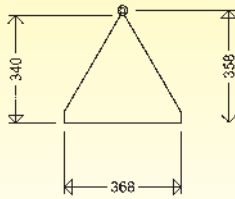
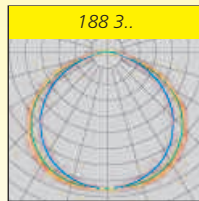
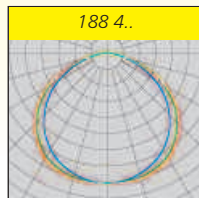


188...

IP65



Wide housing



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾
188 318	18702 0201 ¹⁾	3 x T 26/18W	15,4
188 418	18702 0203 ¹⁾	4 x T 26/18W	15,8
188 336	18702 0205 ¹⁾	3 x T 26/36W	22,0
188 436	18702 0207 ¹⁾	4 x T 26/36W	22,5
188 358	18702 0209 ¹⁾	3 x T 26/58W	28,4
188 458	18702 0211 ¹⁾	4 x T 26/58W	29,1
188 318 EVG	18702 0213	3 x T 26/18W	15,0
188 418 EVG	18702 0214	4 x T 26/18W	15,0
188 336 EVG	18702 0215	3 x T 26/36W	22,0
188 436 EVG	18702 0216	4 x T 26/36W	22,0
188 358 EVG	18702 0217	3 x T 26/58W	27,0
188 458 EVG	18702 0218	4 x T 26/58W	27,0

1) Uncomp., art. nos. for comp. see price list

2) Weights without packing material

Note:

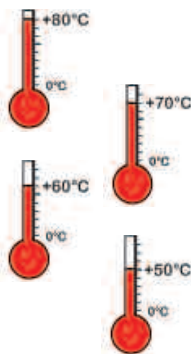
EVG version for high ambient temperatures on request.

187/188... H..

IP65



for high ambient temperatures up to +80°C



Type	Article no.	Lamps W	Weight ca. kg ²⁾
narrow housing			
187 118 H80	18702 0151	1 x T 26/18 W	11,0
187 218 H80	18702 0152	2 x T 26/18 W	11,3
187 136 H80	18702 0153	1 x T 26/36 W	17,5
187 236 H80	18702 0154	2 x T 26/36 W	18,3
187 158 H70	18702 0155	1 x T 26/58 W	21,3
187 318 H60	18702 0156	3 x T 26/18 W	10,3
187 336 H60	18702 0157	3 x T 26/36 W	18,6
187 258 H60	18702 0158	2 x T 26/58 W	22,7
187 358 H50	18702 0159	3 x T 26/58 W	22,8
wide housing			
188 336 H80	18702 0351	3 x T 26/36 W	20,4
188 318 H60	18702 0352	3 x T 26/18 W	15,2
188 418 H60	18702 0353	4 x T 26/18 W	15,3
188 436 H60	18702 0354	4 x T 26/36 W	23,3
188 358 H60	18702 0355	3 x T 26/58 W	27,2
188 458 H50	18702 0356	4 x T 26/58 W	27,3

1) Uncompensated only

2) Weights without packing material



Further series / Equipment

- with up to 4 cable entries
- with through wiring up to max. 6 x 6.0mm²
- with single-end loop-in/loop-out wiring
- with 2 individual electronic ballasts and monitoring device or emergency power supply unit for individual monitoring of the light fitting connected to group or central battery systems.

- with connection terminals to max. 10mm²
- with mirror-type reflector
- as T5 version
- as painted stainless steel version
- in silicone-free version
- as Ex version Zone 1/21 (series e187/188...) and Zone 2/22 (series nD187/188...)

STAINLESS STEEL
corrosion resistant

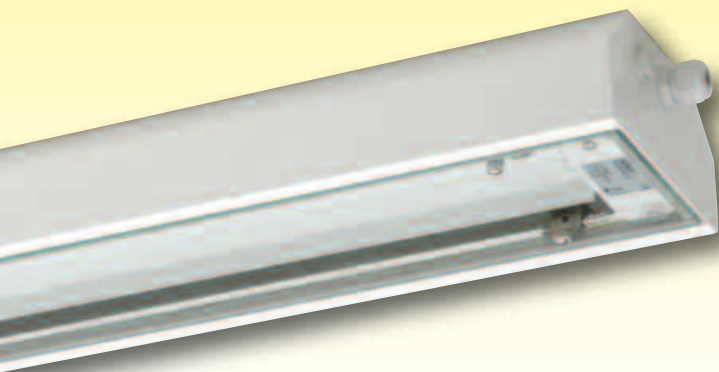


Accessories / Spare Parts

Type	Article no.	
Spare safety glass		
181 18-1	18090 9001	for narrow housing, 1, 2 and 3 x 18W
181 36-1	18090 9002	for narrow housing, 1, 2 and 3 x 36W
181 58-1	18090 9003	for narrow housing, 1, 2 and 3 x 58W
182 18-1	18090 9004	for wide housing, 3 and 4 x 18W
182 36-1	18090 9005	for wide housing, 3 and 4 x 36W
182 58-1	18090 9006	for wide housing, 3 and 4 x 58W
Cable entries / Verschraubungen		
2560	25600 9000	plastic cable gland M25 x 1,5
2572	25720 9000	threaded blanking plug M25 x 1,5
Lamp holder		
177/1	17703 9000	without starter holder
182/1 T140	90056 9005	with starter holder (from UT +50°C)
STF 182	90138 9002	starter holder
Mounting accessories		
RS 6	90019 0001	Ringschraube M6

For through-wiring options see end of section "Dustproof/Waterproof light fittings".

Compact Sheet Steel Light Fittings for T5 Fluorescent Lamps Series 190...



Application:

Industrial, tradesmen's and commercial facilities with extreme conditions, aggressive environments (e.g. oil, grease) or high mechanical exposure, paint shops and spray booths (non-hazardous areas), corners and recesses e.g. inspection pits (with mirror-type asymmetrical reflector).

Design:

Housing: sheet steel, optionally stainless steel, traffic white (RAL 9016), powder-coated.

Glass: hinged, frameless tempered safety glass pane.

Reflector: detachable, white painted

sheet steel.

Central locking: operated by a 5mm Allen key, hinges on the opposite side.

Electrical connection: 3-pole terminal block (max 2,5mm²).

Cable entries: 3 entries M25x1.5 (1 cable gland and 2 blanking plugs).

Through-wiring: classical, up to 5 x 2.5mm², as well as looping in/out at one end available on request.

Mounting: pre-punched holes for ceiling mounting, thrust and sealing washers are included, or alternatively using 2 eye brackets (H8V P) or 2 ceiling brackets (15A P) (see Accessories / Spare Parts).

Note:

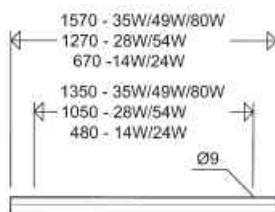
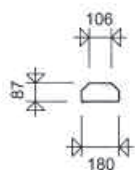
For installation in continuously humid and corrosive atmospheres request stainless steel light fittings.

STAINLESS STEEL
corrosion resistant

Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

- FM for high light efficiency (14, 28, 35W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C to 70°C (24, 54, 80W)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.



SCHUCH quality - your advantage:

- **robust and high chemical resistant design for a long life in extreme industrial conditions**
  - housing made of powder-coated sheet steel or stainless steel
  - frameless safety glass or framed polycarbonate glass
  - Original SCHUCH central-locking system and internal mounted hinges
- **easy to mount and maintain**
  - central locking-system with hinged safety glass for easy lamp replacement
  - easily accessible connection compartment under hinged reflector
  - fast and cost-saving through-wiring with looping system at one end of the housing (on request)
- **space-saving due to the low over-all height and minimized width**
- **suitable for use in corners and recesses due to the chamfered design (chamfer 45°)**
- **flexible and suitable for a wide range of applications in various environmental conditions**
  - swivel arm mounting (swivel angle 180°).
  - many versions e.g. for use in blasting locations or cabins, for use in the food industry, for use in halls and stores with high ceilings, as emergency lighting, etc.(for other modified versions see "Further Series / Versions")

STAINLESS STEEL
corrosion resistant

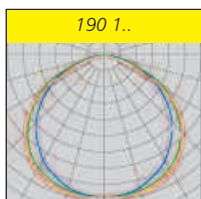
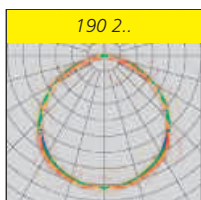


190...

for T5 fluorescent lamps (Ø 16mm)

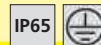


Type	Article no.	Lamps W	Weight ca. kg ²⁾
190 114	19000 0001	1 x T16/14 W	4,6
190 124	19000 0002	1 x T16/24 W	4,6
190 128	19000 0003	1 x T16/28 W	8,6
190 154	19000 0004	1 x T16/54 W	8,6
190 135	19000 0005	1 x T16/35 W	11,4
190 149	19000 0006	1 x T16/49 W	11,4
190 180	19000 0007	1 x T16/80 W	11,5
190 214	19000 0101	2 x T16/14 W	4,7
190 224	19000 0102	2 x T16/24 W	4,7
190 228	19000 0103	2 x T16/28 W	8,7
190 254	19000 0104	2 x T16/54 W	8,7
190 235	19000 0105	2 x T16/35 W	11,5
190 249	19000 0106	2 x T16/49 W	11,5
190 280	19000 0107	2 x T16/80 W	11,7



1) Weights without packing material.

190... S. with highly polished mirror-type reflector



Application:

High rooms, corridors and halls (series ...ST) or where directed light is necessary or required (series SA...).

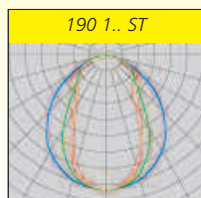
Design:

As standard type, but only with single lamp and highly efficient symmetrical narrow beam (ST) or asymmetrical (SA), anodized, pure aluminium mirror-type reflector.



Type	Article no.	Lamps W	Weight ca. kg ¹⁾

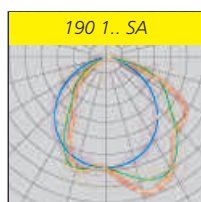
series 190 1... ST



with narrow beam mirror-type reflector

190 114 ST	19000 0021	1 x T16/14 W	4,7
190 124 ST	19000 0022	1 x T16/24 W	4,7
190 128 ST	19000 0023	1 x T16/28 W	8,8
190 154 ST	19000 0024	1 x T16/54 W	8,8
190 135 ST	19000 0025	1 x T16/35 W	11,6
190 149 ST	19000 0026	1 x T16/49 W	11,6
190 180 ST	19000 0027	1 x T16/80 W	11,7

series 190 1... SA



with asymmetric mirror-type reflector

190 114 SA	19000 0031	1 x T16/14 W	4,7
190 124 SA	19000 0032	1 x T16/24 W	4,7
190 128 SA	19000 0033	1 x T16/28 W	8,8
190 154 SA	19000 0034	1 x T16/54 W	8,8
190 135 SA	19000 0035	1 x T16/35 W	11,6
190 149 SA	19000 0036	1 x T16/49 W	11,6
190 180 SA	19000 0037	1 x T16/80 W	11,7

1) Weights without packing material



Further series / versions

- with different cable glands
- with through wiring up to max. 5 x 2.5mm²
- with swivel mounting
- with additional protective polycarbonate glass for use in sand blasting areas and cabins
- with polycarbonate glass mainly for use in the food industry

- with individual monitoring of the light fitting connected to group or central battery systems.
- as painted stainless steel version
- in silicone-free version
- as emergency light fitting
- in protection class II

STAINLESS STEEL
corrosion resistant

Series 190... for food industry areas

Mainly for applications in the food and food processing industries, we also supply the light fittings of the series 190... with a polycarbonate glass and a screwed-on stabilization frame instead of the single layer safety glass. The light fitting then meets the requirements of the International Food Standard (IFS) for use in risk areas of the food and food processing plants.

NEW

With anti-bacterial painting

If required our series 190... IFS can be supplied with a special anti-bacterial paint. Especially recommended for dairies, milk-processing plants, fruit juice industry and fish-processing plants. Please consult us in case of interest.

Advantages:

- limits bacteria growth on the housing surface
- good long term effect
- noticeable reduction in the need of disinfectants and increase in the disinfection cycle

Accessories / Spare Parts

Type	Article no.	
Spare safety glass		
19014/24		for 14W/24W
19028/54		for 28W/54W
19035/49/80		for 35W/49W/80W
Cable entries		
2561	25610 9000	plastic cable gland M20 x 1.5
2573	25730 9000	threaded blanking plug M20 x 1.5
Lamp holder		
190	90056 9007	without starter holder
Mounting accessories		
H8V P	90001 0002	1 pair suspension brackets with screws M8, stainless steel
15A P	90000 0002	1 pair ceiling rail, galvanized steel
15A V P	90032 0002	1 pair ceiling rail, stainless steel
W 26 P	26000 0004	1 pair wall angle brackets
W 26/30 P	26000 0002	1 pair wall angle brackets 30°
W 26/45 P	26000 0003	1 pair wall angle brackets 45°

Note:

For through-wiring options see end of section "Dustproof/Waterproof light fittings".

Light Fittings for Motor Vehicle Pits with Tapered Sheet Steel Body Series 183...



Application:

Inspection pits and testing beds for any kind of motor vehicles. An asymmetrical mirror reflector guarantees excellent illumination underneath the vehicle.

Design:

Housing: sheet steel, optionally stainless steel, traffic white (RAL 9016), powder-coated.

Glass: hinged, frameless, tempered safety glass pane.

Reflector: asymmetrical, anodized, pure aluminium mirror reflector.

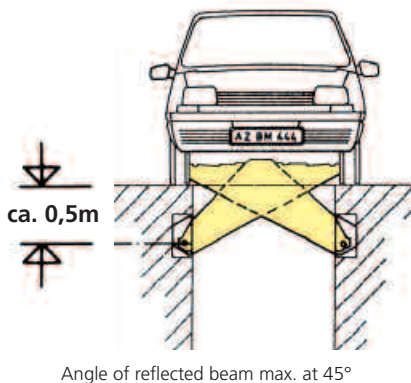
Central locking: operated by a 5mm Allen key, hinges on the opposite side.

Electrical connection: 3-pole terminal block (max 2,5mm²).

Cable entries: 3 entries M25x1.5 (1 cable gland and 2 blanking plugs).

Through-wiring: classic, up to 5 x 2,5mm². Also available for looping in/out at one end.

Mounting: see dimension diagram for mounting point dimensions.



Note:

The light fitting in sheet steel is not suitable for inspection pits with constantly humid or corrosive atmospheres.

For such installations please request stainless steel light fittings.

STAINLESS STEEL
corrosion resistant

SCHUCH quality - your advantage:

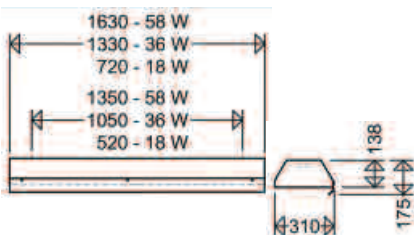
- robust and highly chemical-resistant design for a long life in extreme industrial conditions
  - housing made of powder-coated sheet steel or stainless steel
  - with screw-mounted deflector plate for protection against mechanical damage and soiling of the silicate glass from oil and grease.
  - frameless safety glass
  - high quality silicone seal, ageing, chemical and temperature resistant
  - sturdy central-locking system and internal mounted hinges
- easy to mount and maintain
  - Original SCHUCH central locking-system with hinged safety glass for easy lamp replacement
  - easily accessible connection compartment under hinged reflector
  - fast and cost-saving through-wiring with looping system at one end of the housing (on request)
- flexible and suitable for a wide range of applications in various environmental conditions
  - suitable for Ø 16mm, Ø 38mm, and Ø 26mm fluorescent lamps
  - separate frame for recessed installation and swivel arm mounting system for retrofitting (building-block system), thus offering high application flexibility and economic stock-keeping.



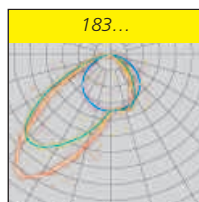
183...



Series 183...



Note: The additional length of the cable entry must be taken in to account when mounting!



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾

with sheet steel housing

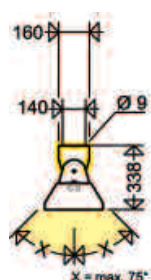
183 118	18300 0001 ¹⁾	1 x T 26/18 W	8,8
183 136	18300 0003 ¹⁾	1 x T 26/36 W	16,0
183 158	18300 0005 ¹⁾	1 x T 26/58 W	18,1

with sheet steel housing, EVG

183 118 EVG	18300 0013	1 x T 26/18 W	8,3
183 136 EVG	18300 0014	1 x T 26/36 W	15,5
183 158 EVG	18300 0015	1 x T 26/58 W	17,8

1) Uncomp.; article nos. for comp. see price list 2) Weights without packing material

Series 183... with swivel arm mounting system



swivel range: 150°

Note: Accessories and spare parts see series 181/182...(narrow housing).

Swivel Arm Mounting System

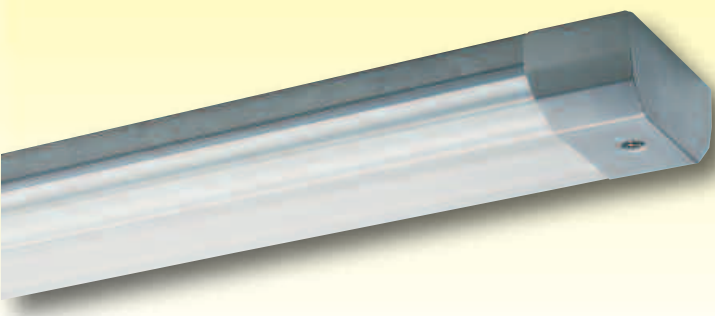
Light fittings series 183... can also be adapted for swivel mounting using separately supplied swivel arm mounting accessories. The swivel mounting brak-

kets are screwed to the light fitting at the suspension points.

Swivel angle $\pm 75^\circ$ (see dimension drawing)

Type	Article no.	
SWA 181/182	18092 0001	for all lamp lengths, consisting of 2 swivel brackets and screws M8
SWA 181/182 E	18092 0002	stainless steel version

Vandal Proof Light Fitting Series 140...



Application:

Subways, railway stations, underground stations, car parks, lavatories, schools, sport stadiums, stairways, bus-stops, prisons etc.

Design:

Housing: high-grade stainless steel, glass pearl blasted visible surfaces, covered cable tray and mounting holes at the back of the housing, high quality profile gasket.

Cover: heavy-duty protective diffuser made from clear, high impact resistant polycarbonate (structured finish upon request), with glass pearl blasted s/s end caps, concealed joint with the protective

diffuser.

Reflector: white powder-coated sheet steel, removable via the keyholes.

Fasteners: stainless steel, cover and end caps fixed with the stainless steel housing using safety screws M6 (Thorax with pin) counter-sunk in the end caps (special fasteners on request).

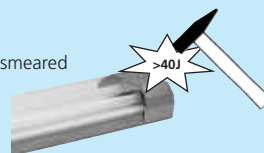
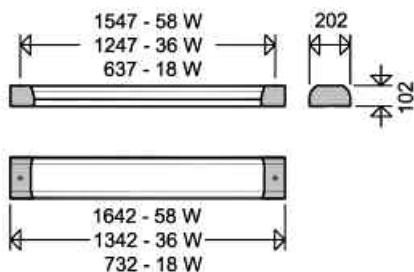
Electrical connection: 3-pole connection terminal; max. 2.5mm².

Cable entries: 2 x M20 with threaded blanking plugs at the back hidden in the cable tray, for looping the mains cable or for strip-lighting installation.

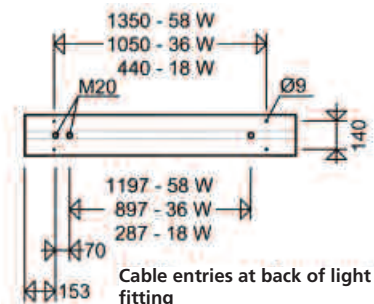
Mounting system: 4 holes 9 mm Ø, hidden at the back of the housing.

SCHUCH quality- Your advantage:

- reliable protection against careless or intentional damage due to the extremely robust design:
  - all internal and external components made of high-quality stainless steel (except: reflector), ridge housing and end caps due to multiple folding (no polyester parts)
  - high impact resistant shaped polycarbonate diffuser. IK value acc. to EN 50102 > 2 x IK 10 (Δ 40 joule min.)
  - guaranteed seal with labyrinth-shape gasket
  - graffiti-resistant coating (upon request) for easy cleaning of paint-smeared diffuser
- easy mounting and maintenance:
  - removable diffuser, suspended on chains to allow easy lamp replacement
  - easily accessible connection chamber via hinged reflector
  - simple, quick and economic looping and continuous wiring facility of mains cable in the hidden cable tray at the back of the housing (also for strip lighting installation)
- long-life due to exclusive use of high-quality materials

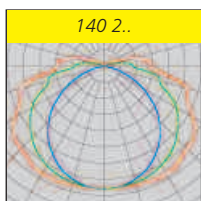
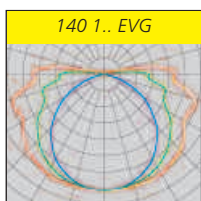


Mounting holes at back of light fitting



Cable entries at back of light fitting

140...



Type	Article no.	Lamps W	Weight ca. kg ²⁾
with low loss conventional ballast (VVG)			
140 118	14000 0013 ¹⁾	1 x T 26/18 W	5,9
140 136	14000 0001 ¹⁾	1 x T 26/36 W	9,1
140 158	14000 0003 ¹⁾	1 x T 26/58 W	11,7
140 218	14000 0015 ¹⁾	2 x T 26/18 W	6,0
140 236	14000 0005 ¹⁾	2 x T 26/36 W	9,8
140 258	14000 0007 ¹⁾	2 x T 26/58 W	13,0
with electronic ballast (EVG)			
140 118 EVG	14000 0017	1 x T 26/18 W	5,5
140 136 EVG	14000 0009	1 x T 26/36 W	8,7
140 158 EVG	14000 0010	1 x T 26/58 W	10,5
140 218 EVG	14000 0018	2 x T 26/18 W	5,6
140 236 EVG	14000 0011	2 x T 26/36 W	8,9
140 258 EVG	14000 0012	2 x T 26/58 W	10,6

1) Uncomp.; article no. for comp. see price list

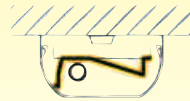
2) Weights without packing material

Dustproof/Waterproof
Light Fittings

Series 140 1... SB symmetrical / ceiling mounting



Series 140 1... SA asymm. / ceiling mounting

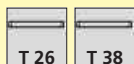


Series 140 1... SA asymm. / wall mounting corner mounting



140... S.

with high anodized mirror-type aluminium reflector



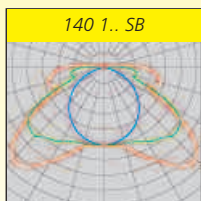
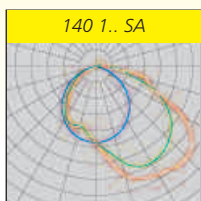
Type	Article no.	Lamps W	Weight ca. kg ²⁾

with wide beam mirror reflector (SB)

140 118 SB	14000 0113 ¹⁾	1 x T 26/18W	6,0
140 136 SB	14000 0101 ¹⁾	1 x T 26/36 W	9,3
140 158 SB	14000 0103 ¹⁾	1 x T 26/58 W	11,8

with asymmetrical mirror reflector (SA)

140 118 SA	14000 0213 ¹⁾	1 x T 26/18 W	6,1
140 136 SA	14000 0201 ¹⁾	1 x T 26/36 W	9,3
140 158 SA	14000 0203 ¹⁾	1 x T 26/58 W	12,0



with wide beam mirror reflector (SB) and electronic ballast (EVG)

140 118 SB EVG	14000 0115	1 x T 26/18 W	5,7
140 136 SB EVG	14000 0109	1 x T 26/36 W	9,0
140 158 SB EVG	14000 0110	1 x T 26/58 W	10,6

with asymmetrical mirror reflector (SA) and electronic ballast (EVG)

140 118 SA EVG	14000 0215	1 x T 26/18 W	5,6
140 136 SA EVG	14000 0209	1 x T 26/36 W	9,0
140 158 SA EVG	14000 0210	1 x T 26/58 W	11,6

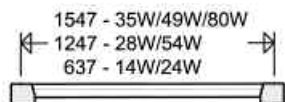
1) Uncomp.; article no. for comp. see price list 2) Weights without packing material

Note:

Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

- FM for high light efficiency (14, 28, 35 W)
- FQ for high light output (24, 54, 49, 80W)
- Amalgam lamps for near constant luminous flux within the temperature range 5°C bis 70°C (24, 54, 80W)
- Long-life lamps with a service life of 60.000 hours (manufacturers data)

We recommend the use of Amalgam lamps for low temperatures and outdoor areas.

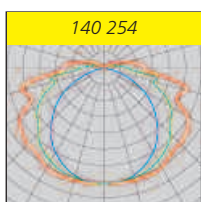


140... (T5)

for T5 fluorescent lamps (Ø 16mm)



Type	Article no.	Lamps W	Weight ca. kg ¹⁾



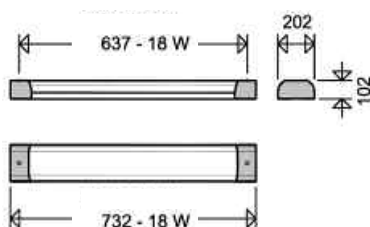
140 114	14001 0001	1 x T 16/14 W	5,5
140 124	14001 0002	1 x T 16/24 W	5,5
140 128	14001 0003	1 x T 16/28 W	8,8
140 154	14001 0004	1 x T 16/54 W	8,8
140 135	14001 0005	1 x T 16/35 W	10,0
140 149	14001 0006	1 x T 16/49 W	10,0
140 180	14001 0007	1 x T 16/80 W	10,0

140 214	14001 0008	2 x T 16/14 W	5,6
140 224	14001 0009	2 x T 16/24 W	5,6
140 228	14001 0010	2 x T 16/28 W	8,8
140 254	14001 0011	2 x T 16/54 W	8,8
140 235	14001 0012	2 x T 16/35 W	10,0
140 249	14001 0013	2 x T 16/49 W	10,0
140 280	14001 0014	2 x T 16/80 W	10,0

1) Weights without packing material

Note:

The basis of this Series is the standard light fitting housing 18W.



NEW

140... 2G11



Type	Article no.	Lamps W	Weight ca. kg ¹⁾

for compact lamps, socket 2G11

140 136 2G11	14000 0019	1 x TC-L 36W	5,8

for compact lamps, socket 2G11, with electronic ballast

140 136 2G11 EVG	14000 0021	1 x TC-L 36W	5,5
140 140 2G11 EVG	14000 0022	1 x TC-L 40W	5,5
140 155 2G11 EVG	14000 0023	1 x TC-L 55W	5,5
140 180 2G11 EVG	14000 0024	1 x TC-L 80W	5,5

1) Weights without packing material



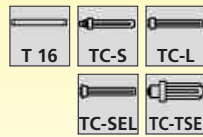
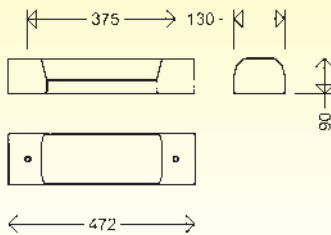
NEW

140... KL

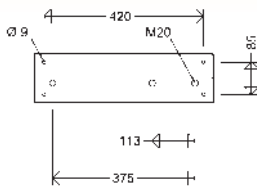
Compact light fitting

IP65

2 x IK 10



Fixing holes on rear of light fitting



Cable entries on rear of light fitting

Application:

Washrooms, prison cells, corridors, hall-

ways, stairways, underground stations and tram stops, public toilets etc

Type	Article no.	Lamps W	Weight ca. kg ³⁾
for compact lamps, socket G23 or 2G11, VVG			
140 111 KL	14002 0001 ¹⁾	1 x TC-S 9-11 W	2,8
140 211 KL ²⁾	14002 0003 ¹⁾	2 x TC-S 9-11 W	3,1
140 118 KL	14002 0005 ¹⁾	1 x TC-L 18 W	3,0
140 124 KL	14002 0007 ¹⁾	1 x TC-L 24 W	3,0
for compact lamps, socket G5, 2G7 or 2G11, EVG			
140 108 KL EVG	14002 0009	1 x T16/8 W	2,5
140 208 KL EVG	14002 0010	2 x T16/8 W	2,5
140 111 KL EVG	14002 0011	1 x TC-SEL 11 W	2,5
140 118 KL EVG	14002 0012	1 x TC-L 18 W	2,6
140 124 KL EVG	14002 0013	1 x TC-L 24 W	2,6
for fluorescent lamps, socket G5, VVG			
140 108 KL	14002 0014 ¹⁾	1 x T16/8 W	2,8
140 208 KL	14002 0016 ¹⁾	2 x T16/8 W	2,8
for compact lamps, socket E27			
140 108 KL E27	14002 0018	1 x TC-TSE 8 W	2,5
140 112 KL E27	14002 0020	1 x TC-TSE 12 W	2,5
140 116 KL E27	14002 0022	1 x TC-TSE 16 W	2,5
140 121 KL E27	14002 0024	1 x TC-TSE 21 W	2,5
140 124 KL E27	14002 0026	1 x TC-TSE 24 W	2,5

1) Uncomp., art. nos. for comp. see price list

3) Weights without packing material

2) Individual circuits

Advantages of LED-version:

- low operating costs due to low power consumption and high efficiency
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, T_a=25°C)
- low maintenance costs due to long maintenance intervals
- immediate full light output even at low temperatures
- ideal for frequent operating cycles
- resistant against shocks and vibrations

NEW

140... KL LED

Compact light fitting with high power LED



Application:

Washrooms, prison cells, corridors, hallways, stairways, underground stations and tram stops, public toilets etc

(200-240V, 50-60Hz, 176-240V DC) with overload and short circuit protection.

LED: High power LED 1W, 6.500K
Coloured LED for signalling on request.

Ambient temperature: -20°C to +30°C

Design:

As standard design but with white opaque polycarbonate glass, electronic ballast



Type	Article no.	Qty. LED W	Weight ca. kg ¹⁾
140 601 W KL LED	14002 0100	6 x 1W	7,2 W 2,4

1) Weights without packing material



Further Series / Equipment

- in insulation class II
- in painted sheet steel design (only for indoor use)
- with white opaque diffuser
- with mirror reflector for T5 fluorescent lamps
- with special safety fasteners

- with graffiti-resistant coating
- with emergency lamp holder
- as emergency light fitting with individual battery
- as emergency light fitting for central battery system
- special paint finish in any RAL colour

Accessories / Spare parts

Type	Article no.	
Clear spare diffusers PC with stainless steel end caps		
140 018	14011 9002	spare diffuser for 18 W
140 036	14011 9000	spare diffuser for 36 W
140 058	14011 9001	spare diffuser for 58 W
140 KL K	14011 9003	for 140... KL, clear
140 KL W	14011 9004	for 140... KL, white
Lamp holder		
140/1	14012 9000	spare lamp holder without starter holder for 140...
140/2	14012 9001	spare lamp holder with starter holder for 140...
140 T5	14012 9002	spare lamp holder for T5 fluorescent lamps for 140...
G 23	90253 9004	spare lamp holder G13 for 140... KL
2 G 7	90253 9005	spare lamp holder 2 G 7 for 140... KL
2 G 11	90253 9006	spare lamp holder 2 G 11 for 140... KL
E 27	90253 9000	spare lamp holder E27 for 140... KL
2511	90063 9000	threaded blanking plug M20 x 1.5

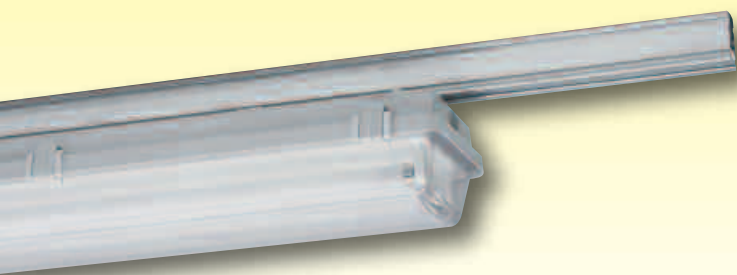
Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

Aluminium Carrier Rails for Continuous Row Installation Series TRS 2000... and AL...



Application:

For rows of light fittings suspended from the ceiling, allowing an easy installation and assembly.

Design:

Aluminium profiled carrier rails

(AL/TRS 2000)

Lengths: 2, 3 or 5 m. Additional covering strip (TRSA) for series TRS.

Mounting accessories:

For each length of a light fitting only one suspension point is required.

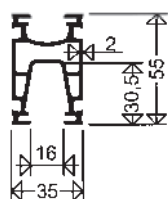
Connection brackets (TRSV) - to be ordered separately - allow joining the individual rails up to any length wanted.

The carrier rails can either be mounted directly to the ceiling by means of the ceiling brackets (183 A / TRSD) or they can be suspended from the ceiling by means of the hook (183 H / TRSS) in combination with the chain (K 16 V).

Perlon pendulums are not suitable for this purpose.

2 or 3 devices (183 L / TRSL) serve for mounting a light fitting to the rail.

The suspension devices 183 A / TRSD and 183 H / TRSS as well as the devices 183 L / TRSL are movable in the longitudinal direction of the rails.



TRS H



TRS V



TRS A



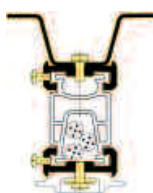
TRS A



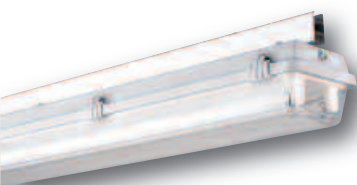
TRS A



TRS S



TRS D



TRS L



TRS L

TRS 2000...

aluminium carrier rails

SCHUCH quality - Your advantage:

- Universal quick-action mounting system for explosion- and weather-proof light fittings.
- Easy to install. (Fasten the suspension devices to the light fitting, push the light fitting with its suspension devices into the carrier rail profile - ready.)
- High carrying force thanks to a new profile structure
- Possibility to insert the mains cable into the cable channel
- cover strips to protect against dirt deposit.

Type	Article no.	Product	Weight ca. kg
TRS 2000 2 M	90260 0001	Alu rail 2 m long	3,03
TRS 2000 3 M	90260 0002	Alu rail 3 m long	4,55
TRS 2000 5 M	90260 0003	Alu rail 5 m long	7,58
TRS A 1	90265 0005	covering strip, 1 m long	0,04
TRS A 2	90265 0006	covering strip, 2 m long	0,07

Mounting Devices

Remark: For sheet steel fittings (e.g. series 181/182...) use mounting material for explosion proof light fittings.

Type	Article no.	Product
TRS V	90265 0004	device (profile) for rail connection
TRS D	90265 0002	stainless steel ceiling bracket
K 16 V	90048 0001	chain 1 m long with 2 eyelets for fastening and length compensation
TRS S	90265 0001	stainless steel swing hook for chain
TRS L	90265 0003	luminaire suspension device, stainless steel
TRS H	90265 0010	stainless steel luminaire mounting, for later installation

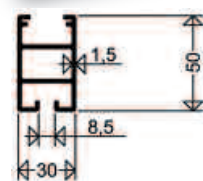
AL...

aluminium carrier rails

Type	Article no.	Product	Weight ca. kg
2 M AL	90005 0001	Alu rail 2 m long	1,6
3 M AL	90005 0002	Alu rail 3 m long	2,4
5 M AL	90005 0003	Alu rail 5 m long	3,9

Mounting Devices

Type	Article no.	Product
TRS V	90265 0004	device for rail connection
183 A	90185 0001	ceiling bracket for ceiling mounting of the carrier rail
K 16 V	90048 0001	chain 1 m long with 2 eyelets for fastening and length compensation
183 H	90049 0001	hook for chain pendulum
183 L	90050 0001	luminaire mounting system complete



183H



183A

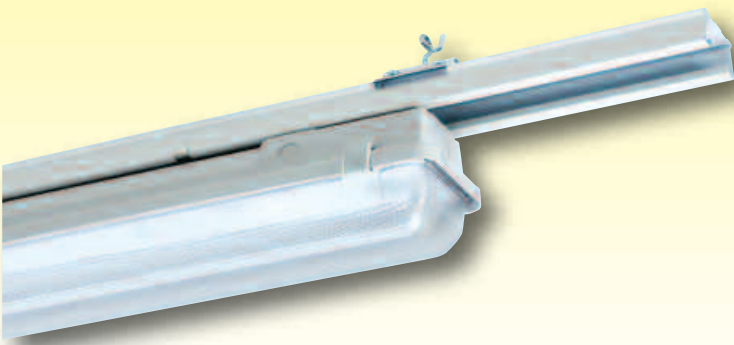


183L



183L

Sheet Steel Carrier Rails for Continuous Row Installation Series TRS 1000



Applications:

For rows of polyester dust-/waterproof light fittings suspended from the ceiling, allowing an easy installation an assembly.

Design:

Profile carrier rails made from sheet steel, galvanized and painted in white on the outside

Lengths:

3065mm (TRS 1000/2) and

4595mm (TRS 1000/3)

Additional covering strip (TRS 1000 A)

1538mm

Mounting accessories:

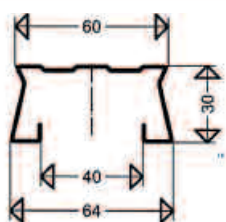
Connection brackets (TRS 1000 V) – to

be ordered separately – allow joining the individual rails up to any length required.

The carrier rails can either be mounted directly to the ceiling by means of the ceiling brackets (TRS 1000 D) or they can be suspended from the ceiling by means of hook (TRS 1000 S) in combination with chain (K 16 V).

2 or 3 devices (TRS 1000 L) serve for mounting a light fitting to the rail.

The carrier rail can be covered with a covering strip (TRS 1000 A) and they can also be closed at the ends with caps (TRS 1000 E).



TRS 1000 S



TRS 1000 L



TRS 1000 V



TRS 1000 A



TRS 1000 D



TRS 1000 E

TRS 1000...

Sheet Steel Carrier Rails

Type	Article no.	Lamps W	Weight ca. kg
TRS 1000/2	90261 0001	sheet steel carrier rail 3065mm	
TRS 1000/3	90261 0002	sheet steel carrier rail 4595mm	

Mounting accessories

TRS 1000 V	90264 0001	connection bracket
TRS 1000 D	90264 0006	ceiling bracket for mounting the rail
TRS 1000 S	90264 0002	hook for chain suspension
K16 V	90048 0001	chain, 1m with 2 eyelets for length compensation
TRS 1000 L P	90264 0008	light fitting mounting system (1 pair)
TRS 1000 A	90264 0004	covering strip, 1538mm
TRS 1000 E P	90264 0007	end cap (1 pair)

Dustproof/Waterproof
Light Fittings

Note:

Most of our light fittings have got two entries at one end of the housing for looping the mains cable. Thus, the classical through-wiring system is no longer required in many cases.

For ambient temp. of +40°C please ask for silicone cable.

For T5-light fittings we do recommend the use of through wiring.

Through-Wiring Systems

Required in all light fittings in case of continuous row installation!

Through-wiring system inside the light fittings comprising two solidly installed multi-pole terminal blocks.

Through-wiring systems should be installed at the factory since a subsequent installation of conductors or cables is subject to special conditions as per VDE 0100, section 559.

Through-wiring systems:

1,5mm² up to 10 A max.

2,5mm² up to 16 A max.

Through-Wiring Systems Installed in the SCHUCH Factory

If through-wiring systems are wanted, we supply our dustproof/waterproof light fittings with the following **standard through-wiring systems**:

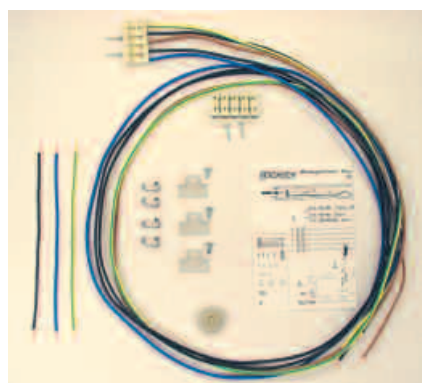
Ballasts	VVG	EVG
Through-wiring system	5 x 2,5mm² silicone	5 x 1,5mm² PVC

Through-wiring systems silicone or with different numbers of wires can be supplied upon request.

Through-wiring systems for subsequent installation:

Type	Article no.	
Universal through-wiring system for retrofit, for 18/36/58 watt		
DV/NS P 5 x 1,5	11831 0013	5 x 1,5mm² PVC, 105°C, for light fittings with electronic ballast
DV/NS P 5 x 2,5	11831 0022	5 x 2,5mm² PVC, 105°C, for light fittings with low loss ballast
DV/NS S 5 x 1,5	11831 0014	5 x 1,5mm² silicone, 150°C, for light fittings with electronic ballast
DV/NS S 5 x 2,5	11831 0024	5 x 2,5mm² silicone, 150°C, for light fittings with low loss ballast

Through-wiring systems of different wire cross sections can be supplied upon request.





Reflector Light Fittings Series 3169/1389..., 3175/3176..., 3037-3048

Application:

Industrial halls, warehouses, workshops with high ceilings, maintenance and assembly shops, etc.

Design:

Upper section: Ventilated sheet steel, painted in light grey (RAL 7035), complete with control gear and ready wired for installation.

Reflector: Axially symmetrical, anodized mirror finish pure aluminium with faceted structure.

Glass: If required, hinged, detachable toughened safety glass with retaining frame. (see Accessories)

Electrical connection: In upper housing with hinged section. Mains terminal block 3 x 2,5mm².

Cable entry: 1 grommet for cable up to 17mm Ø. (2 grommets upon request) PVC insulated cables may be used. (For 30378-3038 use silicone insulated cable.)

Mounting: By means of an eye bolt with 18mm inner dia.

Ambient temperature: Up to +30°C.

Note:

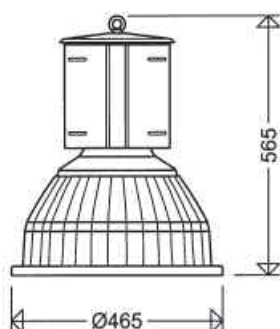
1. The light fitting series for metal halide lamps HIE ≥ 250 W may only be operated without a safety glass when using lamps that are approved for open fittings (e.g. OSRAM, HQI-EP .../D or PHILIPS HPI-Plus ...-P).
2. In cases where the lighting installation is covered by DIN VDE 0108, the light fitting must be secured by a second eyebolt (supplied on request). In this case we recommend to use low-noise ballasts and condensers

SCHUCH Quality - your advantage:

- accurately manufactured quality product for long-term application
  - upper housing made of powder coated galvanized high-grade sheet steel for corrosion protection
  - ridge reflector made of pure aluminium
  - 5 mm thick toughened safety glass with supporting frame
- highly economical
  - 5 different technically optimized reflectors for wide beam and low beam light, matched to suit each size of light fitting
  - faceted reflector optimized for application of high pressure lamps, tubular shape
- installation and maintenance friendly
  - large, directly accessible upper housing with hinged cover, complete with all electrical control gear
  - reflector easily installed with a triple bolt/keyhole connection
  - hinged safety glass allows tool-free lamp replacement
  - easy glass installation (also for retrofitting) with quick release fasteners
- numerous product variants for a variety of applications in different environmental conditions (see "Further Series / Equipment").



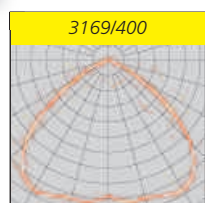
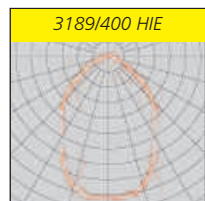
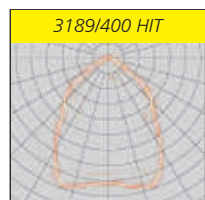
Simple, safe connection through hinged door on housing.



NEW

3169/3189...

with facet reflector



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam			
3169/250	31690 0001	1 x HME 250	5,6
3169/400	31690 0003	1 x HME 400	6,5
3169/250 HI/HS ^{4) 6)}	31690 0005	1 x HIT/HIE/HST/HSE 250	6,5
3169/400 HI ⁴⁾	31690 0007	1 x HIT/HIE 400 ^{3) 5)}	7,2
3169/400 HI-I	31690 0009	1 x HIE-I 400 ^{Δ 2) 3)}	7,1
3169/400 HS ⁴⁾	31690 0011	1 x HST/HSE 400	7,8
3169/400 HS-I	31690 0013	1 x HIE-I 400 ^{Δ 3)}	7,7
narrow-wide beam			
3189/250	31890 0001	1 x HME 250	5,6
3189/400	31890 0003	1 x HME 400	6,5
3189/250 HI/HS ^{4) 6)}	31890 0005	1 x HIT/HIE/HST/HSE 250	6,5
3189/400 HI ⁴⁾	31890 0007	1 x HIT/HIE 400 ^{3) 5)}	7,2
3189/400 HI-I	31890 0009	1 x HIE-I 400 ^{Δ 2) 3)}	7,1
3189/400 HS ⁴⁾	31890 0011	1 x HST/HSE 400	7,8
3189/400 HS-I	31890 0013	1 x HIE-I 400 ^{Δ 3)}	7,7

1) Uncompensated, see price list for Article No. for compensated version

2) PHILIPS HPI Plus 400 BUS, HPI Plus 400 BUS-P

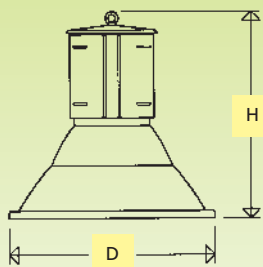
3) If metal halide lamp to be used is suitable for operating with HS ballast, please select HS light fitting for higher luminous flux

4) We recommend the use of ignitor with timer.. (See technical supplement "Electrotechnology/Ignitors")

5) For OSRAM HQI-E 400D, HQI-E/P 400D, PHILIPS HPI Plus 400 BU or equivalent.

6) With safety glass also suitable for ceramic burner lamps Osram HCI-E250... PB or equivalent.

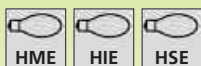
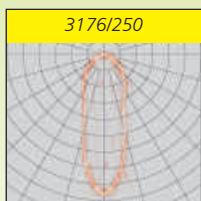
7) Weights without packing material



Series	D [mm]	H [mm]
3175	465	495
3176	565	560

3175/3176...

with plain reflector



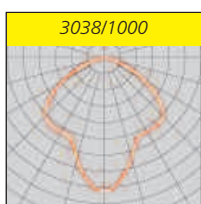
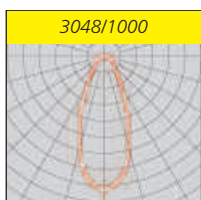
Type	Article no. ¹⁾	Lamps W	Weight ca. kg ²⁾
narrow beam			
3175/250	31700 0001	1 x HME 250	5,4
3176/400	31700 0003	1 x HME 400	6,6
3175/250 HI/HS ^{4) 6)}	31700 0005	1 x HIE/HSE 250	6,3
3176/400 HI ⁴⁾	31700 0007	1 x HIE 400 ^{3) 5)}	7,3
3176/400 HI-I	31700 0009	1 x HIE-I 400 ^{2) 3)}	7,2
3176/400 HS ⁴⁾	31700 0011	1 x HSE 400	7,9
3176/400 HS-I	31700 0013	1 x HSE-I 400 ²⁾	7,8

1) - 7) see series 3169/3189...



3037 - 3048...

for high mounting heights



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ³⁾
wide beam with facet reflector			
3037/700	30300 0025	1 x HME 700	11,9
3038/1000	30300 0029	1 x HME 1000	15,2
3038/1000 HI ²⁾	30300 0033	1 x HIE 1000	17,4
3038/1000 HS ²⁾	30300 0037	1 x HSE 1000	17,4
narrow beam with plain reflector			
3047/700	30400 0029	1 x HME 700	12,1
3048/1000	30400 0033	1 x HME 1000	15,4
3048/1000 HI ²⁾	30400 0037	1 x HIE 1000	17,6
3048/1000 HS ²⁾	30400 0041	1 x HSE 1000	17,6

1) Uncomp., article no. for comp. see price list

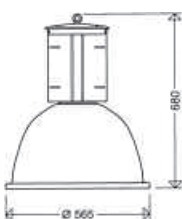
2) We recommend the use of ignitor with timer.

(See technical supplement "Electrotechno-

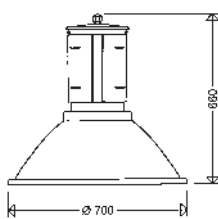
logy/ignitors")

3) Weights without packing material

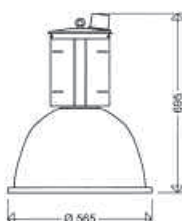
Series
3037/3038...



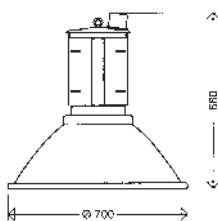
Series
3047/3048...



Series
3038/1000 HI/HS



Series
3048/1000 HI/HS



NEW

3169/3189... IFS, 3175/3176... IFS

for applications in food industry areas



- in accordance with the IFS-Standard
- with FSA-Certificate
- retrofitable

Application:

Production halls in the food industry, locations which come under the requirements of the IFS (International Food Standard) cool rooms and cool houses etc.

Design:

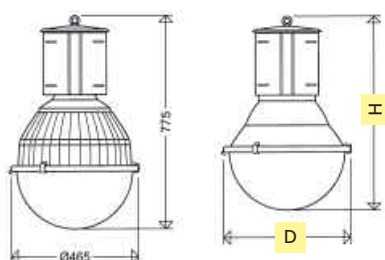
Same as the standard version but with safety glass and additional shatter-proof half-dome Polycarbonate bowl ("Sandwich"-design). Glass types SG . IFS see "Accessories/Spare Parts"

Advantages of the "Sandwich"-design:

- eliminates the risk of glass splinters falling down (shatter protection)
- no lamps with special protection are required
- polycarbonate glass (on request with UV protective paint finish)
- special paint finish for protection against aggressive cleaning agents and disinfectants available upon request.

3169/89... IFS

3175/76... IFS



Series	D [mm]	H [mm]
3175 IFS	465	705
3176 IFS	565	775



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam with facet reflector			
3169/250 IFS	31602 0001	1 x HME 250	8,3
3169/400 IFS	31602 0003	1 x HME 400	9,2
3169/250 HI/HS IFS ^{4) 6)}	31602 0005	1 x HIT/HIE/HST/HSE 250	9,2
3169/400 HI IFS ⁴⁾	31602 0007	1 x HIT/HIE 400 ^{3) 5)}	9,9
3169/400 HI-I IFS	31602 0009	1 x HIE-I 400 ^{2) 3)}	9,8
3169/400 HS IFS ⁴⁾	31602 0011	1 x HST/HSE 400	10,5
3169/400 HS-I IFS	31602 0013	1 x HIE-I 400 ³⁾	10,4
narrow-wide beam with facet reflector			
3189/250 IFS	31802 0001	1 x HME 250	8,3
3189/400 IFS	31802 0003	1 x HME 400	9,2
3189/250 HI/HS IFS ^{4) 6)}	31802 0005	1 x HIT/HIE/HST/HSE 250	9,2
3189/400 HI IFS ⁴⁾	31802 0007	1 x HIT/HIE 400 ^{3) 5)}	9,9
3189/400 HI-I IFS	31802 0009	1 x HIE-I 400 ^{2) 3)}	9,8
3189/400 HS IFS ⁴⁾	31802 0011	1 x HST/HSE 400	10,5
3189/400 HS-I IFS	31802 0013	1 x HIE-I 400 ³⁾	10,4
narrow beam with plain reflector			
3175/250 IFS	31703 0001	1 x HME 250	8,1
3176/400 IFS	31703 0003	1 x HME 400	10,6
3175/250 HI/HS IFS ^{4) 6)}	31703 0005	1 x HIE/HSE 250	9,0
3176/400 HI IFS ⁴⁾	31703 0007	1 x HIE 400 ^{3) 5)}	11,3
3176/400 HI-I IFS	31703 0009	1 x HIE-I 400 ^{2) 3)}	11,2
3176/400 HS IFS ⁴⁾	31703 0011	1 x HSE 400	11,9
3176/400 HS-I IFS	31703 0013	1 x HIE-I 400 ³⁾	11,8

1) - 7) see series 3169/3189...

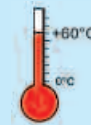
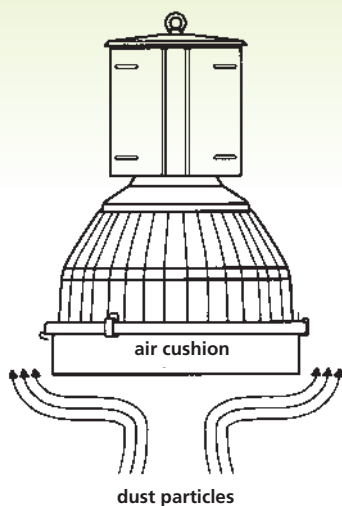




Further Series / Equipment

- with emergency light circuit (design ...SLS) to bypass ignition time for high pressure lamps
- with emergency light lamp holder E27 and separate terminal
- with radio frequency suppressor
- with light reduction (not for metal halide lamps)
- with connection cable and plug
- with discharge unit for light fittings to be connected by plug with unprotected contacts
- with slightly structured safety glass

- with wire guard
- with second eye bolt (for rooms open to the public)
- for mounting to cross ropes
- with cross arm for twin installation
- with 1/2" resp. 3/4" thread for pipe suspension
- with vibration absorbing suspension device (SD)
- for lamps < 250W
- for higher ambient temperatures to +60°C



Aluminium reflector light fitting for areas in a dirty and dusty environment (e.g. Pulp- and paper industry)

Fitting with a toughened safety glass pane with a dust protection ring made from high anodized purest aluminium (glass types SG . Z, see accessories / spare parts).

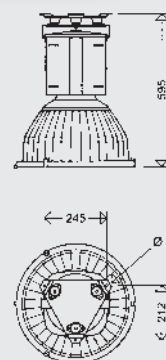
Advantages of the air guide system:

- Protects the glass window from dust/dirt accumulation
- the air cushion below the glass pane avoids a reduction of the luminous intensity as a result of the accumulation dust/dirt
- extended maintenance intervals



Aluminium reflector light fitting with 3-point vibration-absorbing suspension device (... SD)

For applications in areas with high vibration e.g. turbine halls, pressing and forging plants, cranes in industrial halls, etc.



Accessories / Spare Parts

Type	Article no.	
Toughened safety glass		
SG 2	90244 0002	for 3169, 3189, 3175
SG 3	90244 0003	for 3176, 3037, 3038
SG 4	90244 0004	for 3047, 3048
Spare safety glass with dust protection ring		
SG 2 Z	90244 9006	for 3169, 3189, 3175
SG 3 Z	90244 9007	for 3176, 3037, 3038
SG 4 Z	90244 9008	for 3047, 3048
Spare safety glass with additional shatter-proof PC-cover		
SG 2 IFS	90244 9010	for 3169, 3189, 3175
SG 3 IFS	90244 9012	for 3176
Spare reflectors - wide beam		
BRFEF 2 F	90240 9006	for 3169, 3189
BREF 3	90240 9002	for 3037, 3038
Spare reflectors - narrow beam		
TREF 2	90241 9000	for 3175
TREF 3	90241 9001	for 3176
TREF 4	90241 9002	for 3047, 3048
Safety light device		
... SLS	surcharge	safety light system incorporated - with 1 x E27 without lamp (not for HIE-I 400)
Vibration absorbing suspension device		
... SD	surcharge	3-point vibration absorbing suspension device for all types
SDK	90268 0001	vibration absorbing device for chain suspension

NEW

Mirror Reflector Pendant Light Fittings with High Degree of Protection IP65 and Insulation Class II Series 3521/3541..., 3531/3532...



Application:

In humid and dusty factories with rough environmental conditions such as steel works, building material factories, and other heavy industries.

Design:

Body: Robust, two-piece glass fibre reinforced polyester housing, electrical components mounted on a compact carrier plate, wired ready for connection.

Reflector: Axially symmetrical, anodized mirror finish pure aluminium with prismatic facet structure (Series 3521/351...) or plain (Series 3531/3532...).

Glass: Hinged, detachable toughened

safety glass.

Cable entry: 1 grommet for cable up to Ø 17mm.

Electrical connection: Simple and quick due to tool-free hinged upper enclosure part. Terminal block 3 x 2.5mm². PVC insulated cables may be used.

Mounting: 2 mounting brackets with holes Ø 9mm..

Ambient temperature: +30°C max.

SCHUCH Quality - your advantage:

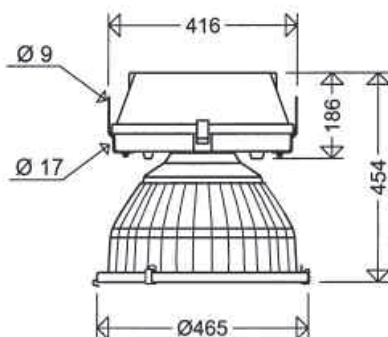
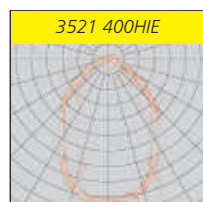
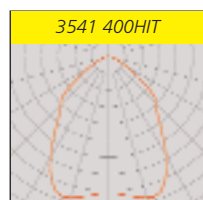
- Robust, chemical resistant polyester housing for applications in most rough environmental conditions.
- ridge reflector made of pure aluminium
- 5 mm thick toughened safety glass with supporting frame
- **Uncompromisingly safe**
  - high quality insulation class II design
  - long term insulation class II due to polyester housing
  - dust and water jet proof due to high ingress protection IP65
- **Uncompromisingly economic**
  - 3 different light technically optimized reflector s for wide beam and low beam light, matched to suit each size of luminair
  - facet reflectors optimized for use with tubular high pressure lamps
- **installation and maintenance friendly**
  - tool-free opening hinged and removable cover
  - tool-free opening hinged and removable safety glass
  - reflector easily installed with a triple bolt/keyhole connection

Insulation class II - Safety

3521/3541...



with facet reflector and safety glass



Type	Article no.	Lamps W	Weight ca. kg ⁷⁾
wide beam for high pressure discharge lamps, socket E40 or PGZ 18			
3521/250	35210 0001 ¹⁾	1 x HME 250	8,6
3521/400	35210 0003 ¹⁾	1 x HME 400	9,3
3521/250 HI/HS ^{5) 6)}	35210 0005 ¹⁾	1 x HIT/HIE/HST/HSE 250	9,4
3521/400 HI ⁵⁾	35210 0007 ¹⁾	1 x HIT/HIE 400 ^{3) 2)}	9,7
3521/400 HI-I	35210 0009 ¹⁾	1 x HIE-I 400 ^{Δ 3) 4)}	9,6
3521/400 HS ⁵⁾	35210 0011 ¹⁾	1 x HST/HSE 400	10,8
3521/400 HS-I	35210 0013 ¹⁾	1 x HIE-I 400 ^{Δ 4)}	10,7
narrow-wide beam for high pressure discharge lamps, socket E40 or PGZ 18			
3541/250	35410 0001 ¹⁾	1 x HME 250	8,6
3541/400	35410 0003 ¹⁾	1 x HME 400	9,3
3541/250 HI/HS ^{5) 6)}	35410 0005 ¹⁾	1 x HIT/HIE/HST/HSE 250	9,4
3541/400 HI ⁵⁾	35410 0007 ¹⁾	1 x HIT/HIE 400 ^{3) 2)}	9,7
3541/400 HI-I	35410 0009 ¹⁾	1 x HIE-I 400 ^{Δ 3) 4)}	9,6
3541/400 HS ⁵⁾	35410 0011 ¹⁾	1 x HST/HSE 400	10,8
3541/400 HS-I	35410 0013 ¹⁾	1 x HIE-I 400 ^{Δ 4)}	10,7

1) Uncomp., art. nos. for comp. see price list

2) For OSRAM HQI-E 400D, HQI-E/P 400D, Philips HPI Plus 400 BU or equivalent.

3) PHILIPS HPI Plus 400 BUS, HPI Plus 400 BUS-P

4) If metal halide lamp to be used is suitable for operating with HS ballast, please select HS light fitting for higher luminous flux

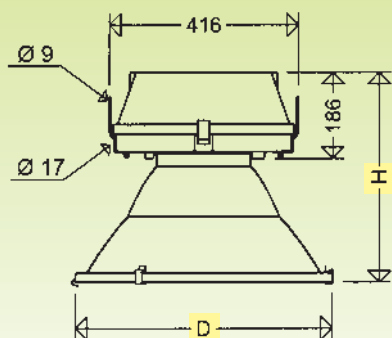
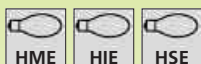
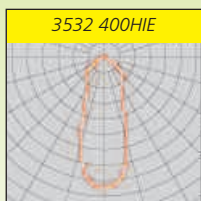
5) We recommend the use of ignitor with timer.. (See technical supplement "Electrotechnology/Ignitors")

6) With safety glass also suitable for ceramic burner lamps OSRAM HCI-E250... PB or equivalent.

7) Weights without packing material

3531/3532...

with plain reflector and safety glass



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
narrow beam for high pressure discharge lamps, socket E40 or PGZ 18			
3531/250	35300 0001	1 x HME 250	8,4
3532/400	35300 0003	1 x HME 400	9,1
3531/250 HI/HS ^{5) 6)}	35300 0005	1 x HIE/HSE 250	9,2
3532/400 HI ⁵⁾	35300 0007	1 x HIE 400 ^{2) 3)}	10,8
3532/400 HI-I	35300 0009	1 x HIE-I 400 ^{3) 4)}	10,7
3532/400 HS ⁵⁾	35300 0011	1 x HSE 400	11,9
3532/400 HS-I	35300 0013	1 x HIE-I 400 ⁴⁾	11,8

1) - 7) see series 3521/3541...

series	D [mm]	H [mm]
3531	465	384
3532	565	454

Further Series / Versions

- with emergency light circuit (design ...SLS) to bypass ignition time for high pressure lamps
- with emergency light lamp holder E27 and separate terminal
- with slightly structured safety glass
- with wire guard
- with swivel bracket
- with vibration absorbing suspension device (SD), in combination with swivel bracket only
- with additional polycarbonate cover (design IFS)
- with dust protection ring (design Z)
- in insulation class I
- for higher ambient temperatures to +30°C



3531/3532... Z with dust-protection ring for areas in a dirty and dusty environment



3531/3532... IFS with additional PC-cover for applications in the food industry

Accessories / Spare Parts

Type	Article no.	
Toughened safety glass		
SG 2 IP65	90244 9002	for 3521, 3531, 3541
SG 3 IP65	90244 9003	for 3532
Spare safety glass with dust protection ring (air control system)		
SG 2 Z IP65	90244 9017	for 3521, 3531, 3541
SG 3 Z IP65	90244 9018	for 3532
Spare safety glass with additional shatter-proof PC-cover (sandwich design)		
SG 2 IFS IP65	90244 9014	for 3521, 3531, 3541
SG 3 IFS IP65	90244 9015	for 3532
Spare reflector - wide / narrow-wide beam (faceted structure)		
BREF 2 F	90240 9006	for 3521, 3541
Spare reflectors - narrow beam (plain)		
TREF 2	90241 9000	for 3531
TREF 3	90241 9001	for 3532
Safety light device		
... SLS	surcharge	safety light system incorporated - with 1 x E27 without lamp (not for HIE-I 400)
Suspension devices		
... SWB	surcharge	swivel bracket
... SD	surcharge	3-point vibration absorbing suspension device for all types (in combination with swivel bracket only)
SDK	90268 0001	vibration absorbing device for chain suspension



Mirror Reflector Pendant Light Fittings with High Degree of Protection IP54 / IP65 Series 3469 - 3489... / 3569 - 3589...

Application:

In humid and dusty factories with rough environmental conditions such as steel works, building material factories, and other heavy industries.

Design:

Body: Robust, two-piece cast aluminium housing, powder paint finish light grey (RAL 7035), electrical components mounted on a compact carrier plate, wired ready for connection.

Reflector: Axially symmetrical, anodized mirror finish pure aluminium.

Glass: Hinged, detachable toughened safety glass window.

Cable entry: 1 plastic cable gland and 1 threaded blanking plug M25 x 1, 5.

Through wiring possible on request.

Electrical connection: Simple and quick due to tool-free hinged upper enclosure part. Terminal block 3 x 4mm². PVC insulated cables may be used.

Mounting: M8 eyebolt.

Ambient temperature: +30°C max.

SCHUCH Quality - your advantage:

- robust design for long life, best suitable for applications in rough environmental conditions
  - high degree of protection (full IP 54 or IP 65)
  - body made of cast aluminium, high quality powder coating ensures a good corrosion protection
  - inherently stable aluminium reflector with 5mm thick toughened safety glass window in a retaining
- highly economical
  - 4 different technically optimized reflectors for wide beam and low beam light, matched to suit each size of light fitting
  - faceted reflector optimized for application of high pressure lamps, tubular shape
- best suited for installation and maintenance purpose
  - direct accessible connection chamber containing all electrical components with easily opened hinged cover
  - if necessary, easy replaceable compact gear carrier (e.g. for conversion to suit other lamp types)
  - reflector easily installed with a triple bolt/keyhole connection
  - hinged safety glass allows tool-free lamp replacement
- numerous product variants for a variety of applications in different environmental conditions (see "Further Series / Versions").



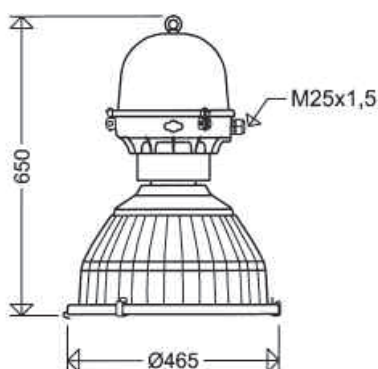
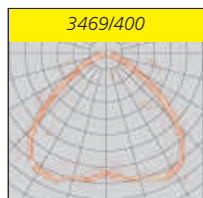
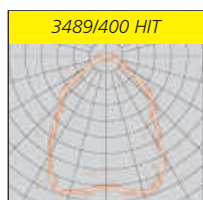
Easy to open cover for friendly assembly and maintenance. Complete exchange of gear tray if required.

NEW

3469/3489...



IP54, with facet reflector and safety glass window



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam			
3469/250	34690 0001	1 x HME 250	9,2
3469/400	34690 0003	1 x HME 400	10,1
3469/250 HI/HS ^{4) 6)}	34690 0005	1 x HIT/HIE/HST/HSE 250	10,1
3469/400 HI ⁴⁾	34690 0007	1 x HIT/HIE 400 ^{3) 5)}	10,5
3469/400 HI-I	34690 0009	1 x HIE-I 400 ^{2) 3)}	10,4
3469/400 HS ⁴⁾	34690 0011	1 x HST/HSE 400	11,6
3469/400 HS-I	34690 0013	1 x HIE-I 400 ²⁾	11,5
narrow-wide beam			
3489/250	34890 0001	1 x HME 250	9,2
3489/400	34890 0003	1 x HME 400	10,1
3489/250 HI/HS ^{4) 6)}	34890 0005	1 x HIT/HIE/HST/HSE 250	10,1
3489/400 HI ⁴⁾	34890 0007	1 x HIT/HIE 400 ^{3) 5)}	10,5
3489/400 HI-I	34890 0009	1 x HIE-I 400 ^{2) 3)}	10,4
3489/400 HS ⁴⁾	34890 0011	1 x HST/HSE 400	11,6
3489/400 HS-I	34890 0013	1 x HIE-I 400 ²⁾	11,5

1) Uncomp., article no. for comp. see price list

2) PHILIPS HPI Plus 400 BUS, HPI Plus 400 BUS-P

3) If metal halide lamp to be used is suitable for operating with HS ballast. Select HS light fitting for higher luminous flux.

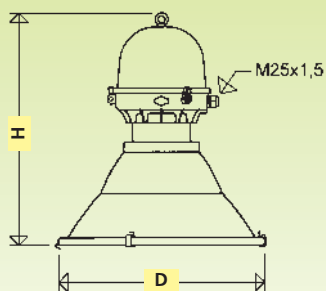
4) We recommend the use of ignitor with timer.. (See technical supplement "Electrotechnology/ignitors")

5) For OSRAM HQI-E 400D, HQI-E/P 400D, Philips HPI Plus 400 BU or equivalent.

6) With safety glass also suitable for ceramic burner lamps OSRAM HCL-E250... PB or equivalent.

7) Weights without packing material.

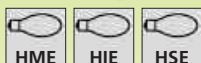
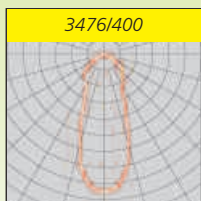
Series 347... / 357...



Series	Ø [mm]	H [mm]
34/3575...	465	560
34/3576...	565	630

3475/3476...

IP54, with plain reflector and safety glass



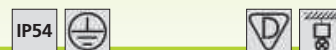
Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
narrow beam			
3475/250	34700 0001	1 x HME 250	9,1
3476/400	34700 0003	1 x HME 400	11,3
3475/250 HI/HS ^{4) 6)}	34700 0005	1 x HIE/HSE 250	10,0
3476/400 HI ⁴⁾	34700 0007	1 x HIE 400 ^{3) 5)}	11,7
3476/400 HI-I	34700 0009	1 x HIE-I 400 ^{2) 3)}	11,6
3476/400 HS ⁴⁾	34700 0011	1 x HSE 400	12,8
3476/400 HS-I	34700 0013	1 x HIE-I 400 ²⁾	12,7

1) - 7) see series 3469/3489...

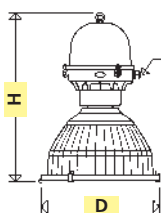


3488/3489... FF

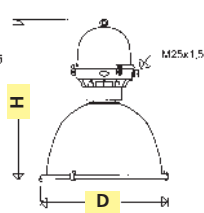
for rooms with increased fire risk



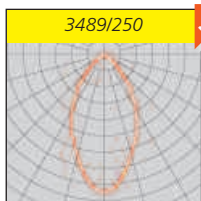
34/3589... FF



34/3588... FF



Series	D [mm]	H [mm]
34/3589 ... FF	465	630
34/3588... FF	565	705



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
narrow-wide beam with facet reflector (3489...) or plain reflector (3488...)			
3489/250 FF	34802 0031	1 x HME 250	9,2
3488/400 FF	34802 0003	1 x HME 400	11,6
3489/250 HI/HS FF ^{4) 6)}	34802 0035	1 x HIT/HIE/HST/HSE 250	10,1
3488/400 HI FF ⁴⁾	34802 0007	1 x HIT/HIE 400 ^{3) 5)}	12,0
3488/400 HI-I FF	34802 0009	1 x HIE-I 400 ^{2) 3)}	11,9
3488/400 HS FF ⁴⁾	34802 0011	1 x HST/HSE 400	13,1
3488/400 HS-I FF	34802 0013	1 x HIE-I 400 ²⁾	13,0

1) - 7) see series 3469/3489...

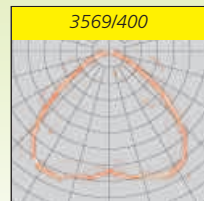
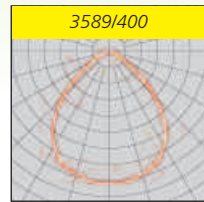


NEW

3569 / 3589...



IP65, with safety glass window



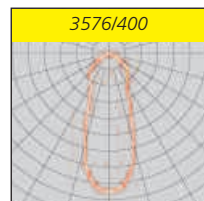
Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam			
3569/250	35690 0001	1 x HME 250	9,2
3569/400	35690 0003	1 x HME 400	10,1
3569/250 HI/HS ^{4) 6)}	35690 0005	1 x HIT/HIE/HST/HSE 250	10,1
3569/400 HI ⁴⁾	35690 0007	1 x HIT/HIE 400 ^{3) 5)}	10,5
3569/400 HI-I	35690 0009	1 x HIE-I 400 ^{Δ 2) 3)}	10,4
3569/400 HS ⁴⁾	35690 0011	1 x HST/HSE 400	11,6
3569/400 HS-I	35690 0013	1 x HIE-I 400 ^{Δ 2)}	11,5
narrow-wide beam			
3589/250	35890 0001	1 x HME 250	9,2
3589/400	35890 0003	1 x HME 400	10,1
3589/250 HI/HS ^{4) 6)}	35890 0005	1 x HIT/HIE/HST/HSE 250	10,1
3589/400 HI ⁴⁾	35890 0007	1 x HIT/HIE 400 ^{3) 5)}	10,5
3589/400 HI-I	35890 0009	1 x HIE-I 400 ^{Δ 2) 3)}	10,4
3589/400 HS ⁴⁾	35890 0011	1 x HST/HSE 400	11,6
3589/400 HS-I	35890 0013	1 x HIE-I 400 ^{Δ 2)}	11,5

1) - 7) see series 3469/3469...

3575/3576...



IP65, with safety glass window



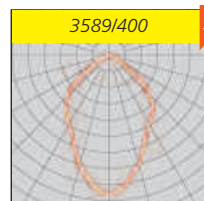
Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
narrow beam			
3575/250	35700 0001	1 x HME 250	9,1
3576/400	35700 0003	1 x HME 400	11,3
3575/250 HI/HS ^{4) 6)}	35700 0005	1 x HIE/HSE 250	10,1
3576/400 HI ⁴⁾	35700 0007	1 x HIE 400 ^{3) 5)}	11,7
3576/400 HI-I	35700 0009	1 x HIE-I 400 ^{Δ 2) 3)}	11,6
3576/400 HS ⁴⁾	35700 0011	1 x HSE 400	12,8
3576/400 HS-I	35700 0013	1 x HIE-I 400 ^{Δ 2)}	12,7

1) - 7) see series 3469/3469...

3588/3589... FF



for rooms with increased fire risk



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
narrow-wide beam with facet reflector (3589...) or plain reflector (3588...)			
3589/250 FF	35801 0031	1 x HME 250	9,2
3588/400 FF	35801 0003	1 x HME 400	11,6
3589/250 HI/HS FF ^{4) 6)}	35801 0035	1 x HIT/HIE/HST/HSE 250	10,1
3588/400 HI FF ⁴⁾	35801 0007	1 x HIT/HIE 400 ^{3) 5)}	12,0
3588/400 HI-I FF	35801 0009	1 x HIE-I 400 ^{Δ 2) 3)}	11,9
3588/400 HS FF ⁴⁾	35801 0011	1 x HST/HSE 400	13,1
3588/400 HS-I FF	35801 0013	1 x HIE-I 400 ^{Δ 2)}	13,0

1) - 7) see series 3469/3469...

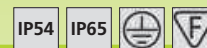




NEW

3469 – 3489... Z / 3569 – 3589... Z

for areas with high levels of dirt and dust deposits



Application:

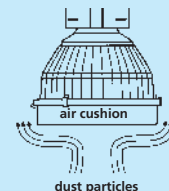
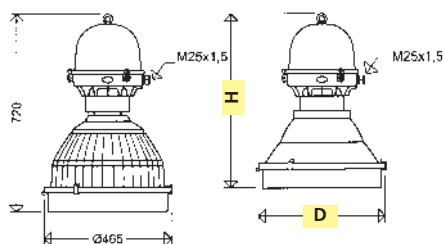
Areas with high dust and dirt deposit e.g. in the pulp and paper industries, brick, limestone and cement industries, plaster storage etc.

Design:

Same as standard type, but safety glass window with additional dust protection ring (air flow system) for protecting the light exit surface from dust deposits. For glass types SG Z please see "Accessories / Spare Parts".

Advantages of the air guide system:

- Protects the glass window from dust/dirt accumulation
- the air cushion below the glass pane avoids a reduction of the luminous intensity as a result of the accumulation dust/dirt
- extended maintenance intervals

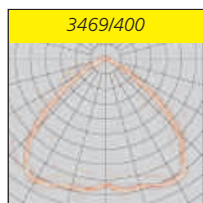
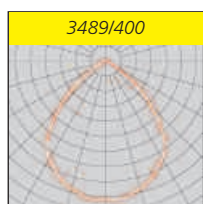


Series	D [mm]	H [mm]
34/3569 ... Z	465	720
34/3589 ... Z	465	720
3475/3575 ... Z	465	630
3476/3576 ... Z	565	700

3469 - 3489... Z



IP54



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam with facet reflector			
3469/250 Z	34691 0001	1 x HME 250	9,4
3469/400 Z	34691 0003	1 x HME 400	10,3
3469/250 HI/HS Z ^{4) 6)}	34691 0005	1 x HIT/HIE/HST/HSE 250	10,3
3469/400 HI Z ⁴⁾	34691 0007	1 x HIT/HIE 400 ^{3) 5)}	10,7
3469/400 HI-I Z	34691 0009	1 x HIE-I 400 ^{Δ 2) 3)}	10,6
3469/400 HS Z ⁴⁾	34691 0011	1 x HST/HSE 400	11,8
3469/400 HS-I Z	34691 0013	1 x HIE-I 400 ^{Δ 2)}	11,7
narrow-wide beam with facet reflector			
3489/250 Z	34891 0001	1 x HME 250	9,4
3489/400 Z	34891 0003	1 x HME 400	10,3
3489/250 HI/HS Z ^{4) 6)}	34891 0005	1 x HIT/HIE/HST/HSE 250	10,3
3489/400 HI Z ⁴⁾	34891 0007	1 x HIT/HIE 400 ^{3) 5)}	10,7
3489/400 HI-I Z	34891 0009	1 x HIE-I 400 ^{Δ 2) 3)}	10,6
3489/400 HS Z ⁴⁾	34891 0011	1 x HST/HSE 400	11,8
3489/400 HS-I Z	34891 0013	1 x HIE-I 400 ^{Δ 2)}	11,7
narrow beam with plain reflector			
3475/250 Z	34701 0001	1 x HME 250	9,3
3476/400 Z	34701 0003	1 x HME 400	11,5
3475/250 HI/HS Z ^{4) 6)}	34701 0005	1 x HIE/HSE 250	10,2
3476/400 HI Z ⁴⁾	34701 0007	1 x HIE 400 ^{3) 5)}	11,9
3476/400 HI-I Z	34701 0009	1 x HIE-I 400 ^{Δ 2) 3)}	11,8
3476/400 HS Z ⁴⁾	34701 0011	1 x HSE 400	13,0
3476/400 HS-I Z	34701 0013	1 x HIE-I 400 ^{Δ 2)}	12,9

for locations with increased fire risk



narrow-wide beam with facet reflector (3489...) or plain reflector (3488...)

3489/250 FF Z	34802 0051	1 x HME 250	9,5
3488/400 FF Z	34802 0053	1 x HME 400	11,9
3489/250 HI/HS FF Z ^{4) 6)}	34802 0055	1 x HIT/HIE/HST/HSE 250	10,4
3488/400 HI FF Z ⁴⁾	34802 0057	1 x HIE 400 ^{3) 5)}	12,3
3488/400 HS FF Z ⁴⁾	34802 0061	1 x HSE 400	13,4

1) Uncomp., article no. for comp. see price list

2) PHILIPS HPI Plus 400 BUS, HPI Plus 400 BUS-P

3) If metal halide lamp to be used is suitable for operating with HS ballast. Select HS light fitting for higher luminous flux.

4) We recommend the use of ignitor with timer. (See technical supplement "Electrotechnology/Ignitors")

5) For OSRAM HQI-E 400D, HQI-E/P 400D, Philips HPI Plus 400 BU or equivalent.

6) With safety glass also suitable for ceramic burner lamps OSRAM HCI-E250... PB or equivalent.

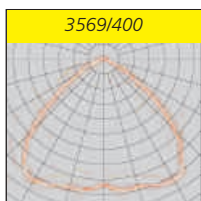
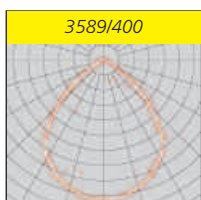
7) Weights without packing material.



3569/3589... Z



IP65



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam with facet reflector			
3569/250 Z	35691 0001	1 x HME 250	9,4
3569/400 Z	35691 0003	1 x HME 400	10,3
3569/250 HI/HS Z ^{4) 6)}	35691 0005	1 x HIT/HIE/HST/HSE 250	10,3
3569/400 HI Z ⁴⁾	35691 0007	1 x HIT/HIE 400 ^{3) 5)}	10,7
3569/400 HI-I Z	35691 0009	1 x HIE-I 400 Δ ^{2) 3)}	10,6
3569/400 HS Z ⁴⁾	35691 0011	1 x HST/HSE 400	11,8
3569/400 HS-I Z	35691 0013	1 x HIE-I 400 Δ ²⁾	11,7
narrow-wide beam with facet reflector			
3589/250 Z	35891 0001	1 x HME 250	9,4
3589/400 Z	35891 0003	1 x HME 400	10,3
3589/250 HI/HS Z ^{4) 6)}	35891 0005	1 x HIT/HIE/HST/HSE 250	10,3
3589/400 HI Z ⁴⁾	35891 0007	1 x HIT/HIE 400 ^{3) 5)}	10,7
3589/400 HI-I Z	35891 0009	1 x HIE-I 400 Δ ^{2) 3)}	10,6
3589/400 HS Z ⁴⁾	35891 0011	1 x HST/HSE 400	11,8
3589/400 HS-I Z	35891 0013	1 x HIE-I 400 Δ ²⁾	11,7
narrow beam with plain reflector			
3575/250 Z	35701 0001	1 x HME 250	9,3
3576/400 Z	35701 0003	1 x HME 400	11,5
3575/250 HI/HS Z ^{4) 6)}	35701 0005	1 x HIE/HSE 250	10,2
3576/400 HI Z ⁴⁾	35701 0007	1 x HIE 400 ^{3) 5)}	11,9
3576/400 HI-I Z	35701 0009	1 x HIE-I 400 Δ ^{2) 3)}	11,8
3576/400 HS Z ⁴⁾	35701 0011	1 x HSE 400	13,0
3576/400 HS-I Z	35701 0013	1 x HIE-I 400 Δ ²⁾	12,9

for locations with increased fire risk



narrow-wide beam with facet reflector (3589...) or plain reflector (3588...)

3589/250 FF Z	35801 0051	1 x HME 250	9,5
3588/400 FF Z	35801 0053	1 x HME 400	11,9
3589/250 HI/HS FF Z ^{4) 6)}	35801 0055	1 x HIT/HIE/HST/HSE 250	10,4
3588/400 HI FF Z ⁴⁾	35801 0057	1 x HIE 400 ^{3) 5)}	12,3
3588/400 HS FF Z ⁴⁾	35801 0061	1 x HSE 400	13,4

1) Uncomp., article no. for comp. see price list

2) PHILIPS HPI Plus 400 BUS, HPI Plus 400 BUS-P

3) If metal halide lamp to be used is suitable for operating with HS ballast. Select HS light fitting for higher luminous flux.

4) We recommend the use of ignitor with timer. (See technical supplement "Electrotechnology/Ignitors")

5) For OSRAM HQI-E 400D, HQI-E/P 400D, Philips HPI Plus 400 BU or equivalent.

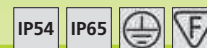
6) With safety glass also suitable for ceramic burner lamps OSRAM HCI-E250... PB or equivalent.

7) Weights without packing material.

NEW

3469 – 3489... IFS / 3569 – 3589... IFS

for applications in food industry areas



- in accordance with the IFS-Standard
- with FSA-Certificate
- retrofitable

Application:

Production halls in the food industry, locations which come under the requirements of the IFS (International Food Standard) cool rooms and cool houses etc.

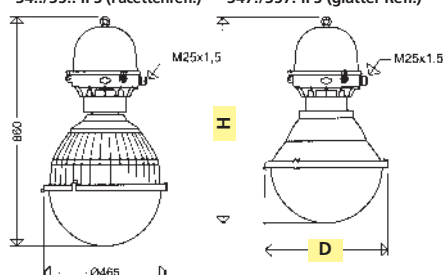
Design:

Same as the standard version but with safety glass and additional shatter-proof half-dome Polycarbonate bowl ("Sandwich"-design). Glass types SG . IFS see "Accessories/Spare Parts"

Advantages of the "Sandwich"-design:

- additional PC cover eliminates the risk of glass splinter falling down (shatter protection)
- polycarbonate glass bowl with additional UV protective paint finish
- special paint finish for protection against aggressive cleaning agents and disinfectants available upon request.
- no special lamps with plastic protective coating required
- suitable for retrofitting
- fulfils the requirements of IFS (International Food Standard) for lighting in areas of risk in food manufacture and processing
- a VDE- and FSA certificate confirms the compliance to the IFS and the food hygiene regulations

34../35... IFS (Facettenrefl.) 347../357... IFS (glatter Refl.)

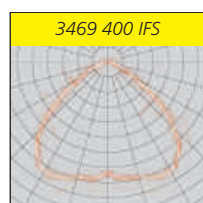
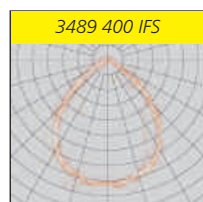


Series	D [mm]	H [mm]
34/3569 ... IFS	465	860
34/3589 ... IFS	465	860
34/3575 ... IFS	465	770
35/3576 ... IFS	565	840

3469 - 3489... IFS



degree of protection IP54



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾

wide beam with facet reflector

3469/250 IFS	34602 0001	1 x HME 250	9,8
3469/400 IFS	34602 0003	1 x HME 400	10,7
3469/250 HI/HS IFS ^{4) 6)}	34602 0005	1 x HIT/HIE/HST/HSE 250	10,7
3469/400 HI IFS ⁴⁾	34602 0007	1 x HIT/HIE 400 ^{3) 5)}	11,1
3469/400 HI-I IFS	34602 0009	1 x HIE-I 400 ^{2) 3)}	11,0
3469/400 HS IFS ⁴⁾	34602 0011	1 x HST/HSE 400	12,2
3469/400 HS-I IFS	34602 0013	1 x HIE-I 400 ²⁾	12,1

narrow-wide beam with facet reflector

3489/250 IFS	34804 0051	1 x HME 250	9,8
3489/400 IFS	34804 0053	1 x HME 400	10,7
3489/250 HI/HS IFS ^{4) 6)}	34804 0055	1 x HIT/HIE/HST/HSE 250	10,7
3489/400 HI IFS ⁴⁾	34804 0057	1 x HIT/HIE 400 ^{3) 5)}	11,1
3489/400 HI-I IFS	34804 0059	1 x HIE-I 400 ^{2) 3)}	11,0
3489/400 HS IFS ⁴⁾	34804 0061	1 x HST/HSE 400	12,2
3489/400 HS-I IFS	34804 0063	1 x HIE-I 400 ²⁾	12,1

narrow beam with plain reflector

3475/250 IFS	34702 0001	1 x HME 250	9,7
3476/400 IFS	34702 0003	1 x HME 400	12,2
3475/250 HI/HS IFS ^{4) 6)}	34702 0005	1 x HIE/HSE 250	10,9
3476/400 HI IFS ⁴⁾	34702 0007	1 x HIE 400 ^{3) 5)}	12,6
3476/400 HI-I IFS	34702 0009	1 x HIE-I 400 ^{2) 3)}	12,5
3476/400 HS IFS ⁴⁾	34702 0011	1 x HSE 400	13,7
3476/400 HS-I IFS	34702 0013	1 x HIE-I 400 ²⁾	13,6

for locations with increased fire risk

narrow-wide beam with facet reflector (3489...) or plain reflector (3488...)

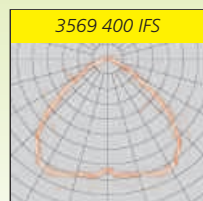
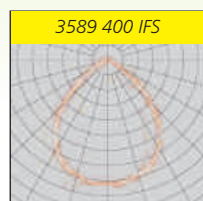
3489/250 FF IFS	34802 0151	1 x HME 250	9,8
3488/400 FF IFS	34802 0153	1 x HME 400	12,5
3489/250 HI/HS FF IFS ^{4) 6)}	34802 0155	1 x HIT/HIE/HST/HSE 250	10,7
3488/400 HI FF IFS ⁴⁾	34802 0157	1 x HIE 400 ^{3) 5)}	12,9
3488/400 HS FF IFS ⁴⁾	34802 0161	1 x HSE 400	14,0

- 1) Uncomp., article no. for comp. see price list
- 2) PHILIPS HPI Plus 400 BUS, HPI Plus 400 BUS-P
- 3) If metal halide lamp to be used is suitable for operating with HS ballast. Select HS light fitting for higher luminous flux.
- 4) We recommend the use of ignitor with timer. (See technical supplement "Electrotechnology/Ignitors")
- 5) For OSRAM HQI-E 400D, HQI-E/P 400D, Philips HPI Plus 400 BU or equivalent.
- 6) With safety glass also suitable for ceramic burner lamps OSRAM HCI-E250... PB or equivalent.
- 7) Weights without packing material.

3569 – 3589... IFS



degree of protection IP65



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁷⁾
wide beam with facet reflector			
3569/250 IFS	35602 0001	1 x HME 250	9,8
3569/400 IFS	35602 0003	1 x HME 400	10,7
3569/250 HI/HS IFS ^{4) 6)}	35602 0005	1 x HIT/HIE/HST/HSE 250	10,7
3569/400 HI IFS ⁴⁾	35602 0007	1 x HIT/HIE 400 ^{3) 5)}	11,1
3569/400 HI-I IFS	35602 0009	1 x HIE-I 400 ^{2) 3)}	11,0
3569/400 HS IFS ⁴⁾	35602 0011	1 x HST/HSE 400	12,2
3569/400 HS-I IFS	35602 0013	1 x HIE-I 400 ²⁾	12,1
narrow-wide beam with facet reflector			
3589/250 IFS	35804 0051	1 x HME 250	9,8
3589/400 IFS	35804 0053	1 x HME 400	10,7
3589/250 HI/HS IFS ^{4) 6)}	35804 0055	1 x HIT/HIE/HST/HSE 250	10,7
3589/400 HI IFS ⁴⁾	35804 0057	1 x HIT/HIE 400 ^{3) 5)}	11,1
3589/400 HI-I IFS	35804 0059	1 x HIE-I 400 ^{2) 3)}	11,0
3589/400 HS IFS ⁴⁾	35804 0061	1 x HST/HSE 400	12,2
3589/400 HS-I IFS	35804 0063	1 x HIE-I 400 ²⁾	12,1
narrow beam with plain reflector			
3575/250 IFS	35702 0001	1 x HME 250	9,7
3576/400 IFS	35702 0003	1 x HME 400	12,2
3575/250 HI/HS IFS ^{4) 6)}	35702 0005	1 x HIE/HSE 250	10,9
3576/400 HI IFS ⁴⁾	35702 0007	1 x HIE 400 ^{3) 5)}	12,6
3576/400 HI-I IFS	35702 0009	1 x HIE-I 400 ^{2) 3)}	12,5
3576/400 HS IFS ⁴⁾	35702 0011	1 x HSE 400	13,7
3576/400 HS-I IFS	35702 0013	1 x HIE-I 400 ²⁾	13,6

for locations with increased fire risk



narrow-wide beam

3589/250 FF IFS	35801 0151	1 x HME 250	9,8
3588/400 FF IFS	35801 0153	1 x HME 400	12,5
3589/250 HI/HS FF IFS ^{4) 6)}	35801 0155	1 x HIT/HIE/HST/HSE 250	10,7
3588/400 HI FF IFS ⁴⁾	35801 0157	1 x HIE 400 ^{3) 5)}	12,9
3588/400 HS FF IFS ⁴⁾	35801 0161	1 x HSE 400	14,0

1) - 7) see series 3469/3489...

NEW

3588... H90



for high ambient temperatures up to +90°C



Application:

Areas with rough environmental conditions and very high ambient temperatures, iron and steel plants, lighting close to ovens or hot air blowers, climatic chambers, kilns etc.

Design:

Same as series 3569/3589, but with a robust 3-piece aluminium-housing, thermal isolation due to separation of electrical components and lamp holder, powder coated in light gray (RAL 7035), wired ready for connection.

Reflector: BREF 3 with safety glass window SG 3 IP65

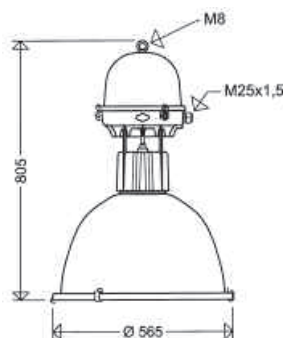


Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁶⁾
narrow-wide beam			
3588/250 H90	35880 0001	1 x HME 250	13,6
3588/250 HI H90 ²⁾	35880 0003	1 x HIE 250	13,5
3588/250 HS H90 ²⁾	35880 0005	1 x HSE 250	14,7

1) Uncomp., art. nos. for comp. see price list

2) We recommend the use of ignitor with timer.
(See technical supplement "Electrotechno-

logy/ignitors") 3) Weights without packing material

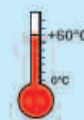
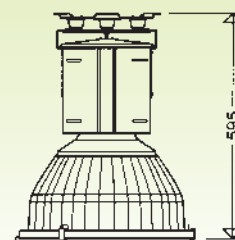
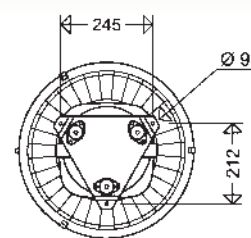




Further Series / Versions

- with emergency light circuit (**design ...SLS**) to by-pass ignition time for high pressure lamps
- with emergency light lamp holder E27 and separate terminal
- with slightly structured safety glass
- with wire guard
- with swivel bracket
- with second eye bolt for rooms open to the public

- (swivel bracket required)
- with vibration absorbing suspension device (**SD**) (in combination with swivel bracket only)
- for higher ambient temperatures to +60°C or to +90°C (**type 3588 H90**)



Aluminium reflector light fitting with 3-point vibration-absorbing suspension device (... SD) - For applications in areas with high vibration e.g. turbine halls, pressing and forging plants, cranes in industrial halls, etc.

Accessories / Spare Parts

Type	Article no.	
Toughened safety glass		
SG 2	90244 0002	for 3469, 3475, 3489
SG 3	90244 0003	for 3476, 3488
SG 2 IP65	90244 9002	IP65, for 3569, 3575, 3589
SG 3 IP65	90244 9003	IP65, for 3576, 3588
Spare safety glass with dust protection ring		
SG 2 Z	90244 9006	for 3469, 3475, 3489
SG 3 Z	90244 9007	for 3476, 3488
SG 2 Z IP65	90244 9017	IP65, for 3569, 3575, 3589
SG 3 Z IP65	90244 9018	IP65, for 3576, 3588
Spare safety glass with additional shatter-proof PC-cover		
SG 2 IFS	90244 9010	for 3469, 3475, 3489
SG 3 IFS	90244 9012	for 3476, 3488
SG 2 IFS IP65	90244 9014	IP65, for 3569, 3575, 3589
SG 3 IFS IP65	90244 9015	IP65, for 3576, 3588
Spare reflectors - wide beam		
BREF 2 F	90240 9006	for 3469, 3569, 3489, 3589
BREF 3	90240 9002	for 3488, 3588
Spare reflectors - narrow beam		
TREF 2	90241 9000	for 3475, 3575
TREF 3	90241 9001	for 3476, 3576
Safety light device		
... SLS	surcharge	safety light system incorporated - with 1 x E27 without lamp (not for HIE-I 400)
Suspension devices		
... SWB	surcharge	swivel bracket
... SD	surcharge	3-point vibration absorbing suspension device for all types (in combination with swivel bracket only)
SDK	90268 0001	vibration absorbing device for chain suspension

NEW



Reflector Light Fittings for high ambient temperatures up to 60°C Series 3019 - 3026...

Application:

Rooms with high ambient temperatures, recycling depots, sorting halls, assembly workshops etc.

Design:

Upper section: Control gear enclosure, ready wired for connection, encased by powder coated perforated sheet steel (RAL 9006 white aluminium).

Reflector: Axially symmetrical, anodized mirror finish pure aluminium.

Glass: Hinged, detachable toughened safety glass window complete with retaining frame, on request.

Electrical connection: Using plug at the

upper section of the light fitting. A matching coupler is supplied as part of the package. Opening or dismantling the light fitting is not necessary.

Mounting system: Eye bolt with internal Ø of 15mm.

Ambient temperature: Max. +60°C

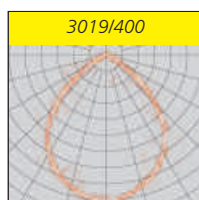
Note:

1. The light fitting series for metal halide lamps HIE ≥ 250W may only be operated without a safety glass when using lamps that are approved for open fittings (e.g. Osram, HQI-EP .../D or Philips HPI-Plus ...-P).
2. In cases where the lighting installation is covered by DIN VDE 0108, the light fitting must be secured by a second eyebolt (supplied on request).

NEW

3019... H60

with facet reflector



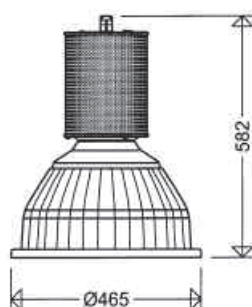
Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
wide beam			
3019/250 H60	30102 0101	1 x HME 250	4,8
3019/400 H60	30102 0105	1 x HME 400	6,1
3019/250 HI/HS H60 ³⁾	30102 0103	1 x HIT/HIE/HST/HSE 250	6,2
3019/400 HI H60 ³⁾	30102 0107	1 x HIT/HIE 400 ^{2) 4)}	7,7
3019/400 HS H60 ³⁾	30102 0109	1 x HST/HSE 400	7,9

- 1) Uncomp., article no. for comp. see price list
 2) If metal halide lamp to be used is suitable for operating with HS ballast, please select HS light fitting for higher luminous flux

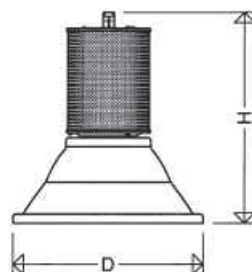
- 3) We recommend the use of ignitor with timer..
 4) For OSRAM HQI-E 400D, HQI-E/P 400D, Philips HPI Plus 400 BU or equivalent.
 5) Weights without packing material



Series 3019/...



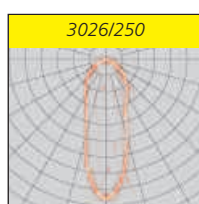
Series 3025/26/...



	D [mm]	H [mm]
3025	465	512
Series 3026	565	582

3025/3026... H60

with plain reflector



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
narrow beam			
3025/250 H60	30201 0001	1 x HME 250	4,6
3026/400 H60	30201 0005	1 x HME 400	6,2
3025/250 HI/HS H60 ³⁾	30201 0003	1 x HIE/HSE 250	6,0
3026/400 HI H60 ³⁾	30201 0007	1 x HIE 400 ^{2) 4)}	7,8
3026/400 HS H60 ³⁾	30201 0009	1 x HSE 400	8,0

- 1) - 5) see series 3019... H60



Further Series / Versions

– with slightly structured safety glass

– with wire guard

Accessories / Spare Parts

Type	Article no.		
SG 2	90244 0002	safety glass window	for 3019, 3025
SG 3	90244 0003	safety glass window	for 3026
BREF 2 F	90240 9006	spare reflector (faceted structure)	for 3019
TREF 2	90241 9000	spare reflector (plain)	for 3025
TREF 3	90241 9001	spare reflector (plain)	for 3026

NEW



Reflector Light Fittings with Induction Lamp System QL Series 3139/3146... QL

Application:

Industrial production shops and warehouses, workshops, humid and dusty locations etc. where a lamp replacement would be difficult and quite costly or if generally long maintenance intervals are wanted for cost saving.

Design:

Upper housing: Aluminium housing incorporating the electronic operating system and induction lamp.

Reflector: Axially symmetrical, anodized mirror finish pure aluminium.

Glass: On request. Hinged, detachable

toughened safety glass window.

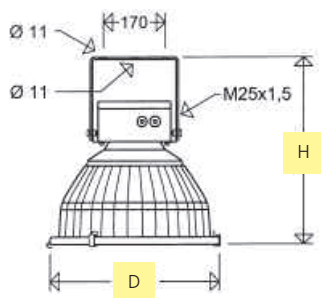
Electrical connection: Terminal block 3 x 4mm²

Cable entry: 1 plastic gland M25 x 1,5 and 1 plastic blanking plug M25 x 1,5

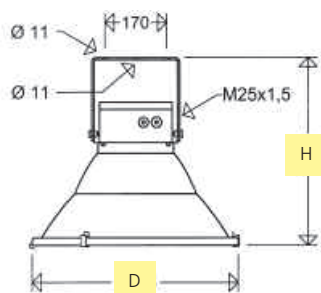
Mounting system: Aluminium bracket with 3 holes 11mm Ø.

Ambient temperature: +30°C max.

Type 3139/... QL



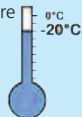
Type 3146/... QL



Series	D [mm]	H [mm]
3139/85 QL	465	510
3139/165 QL	465	530
3146/85 QL	565	510
3146/165 QL	565	530

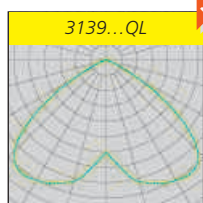
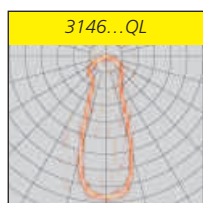
Advantages of the Induction lamp system QL:

- Ideal for difficult to reach areas or with long maintenance periods
- Extremely long working life (up to 60.000 hours, see manufacturers data)
- flicker-free, instant start < 0.1 sec. suitable for emergency applications
- instant restart with almost full light output
- constant high luminous flux over a wide range of mains voltage (suitable for DC)
- low ignition temperature and constant high luminous flux over a wide temperature range (suitable for outdoor and low temperature applications to -20°C)
- universal mounting
- maintenance-free



3139/3146... QL

with induction-type lamp, electronic control gear and safety glass



Type	Article no.	Lamps Watt	Weight ca. kg ¹⁾
wide beam with facet reflector			
3139/85 QL	31360 0101	1 x LMG 85	7,3
3139/165 QL	31360 0102	1 x LMG 165	7,8
narrow beam with plain reflector			
3146/85 QL	31460 0001	1 x LMG 85	8,6
3146/165 QL	31460 0002	1 x LMG 165	9,1

1) Weights without packing material

Further Series / Versions

- with slightly structured toughened safety glass
- with wire guard
- with vibration absorbing suspension device (SD)
- with additional Polycarbonate cover (only 3136) for applications in the food industry (IFS)
- with dust protection ring for dirty and dusty areas (Z)
- ingress protection IP 65



Accessories / Spare Parts

Type	Article no.
Spare toughened safety glass	
SG 2	90244 0002 3139 QL
SG 3	90244 0003 3146 QL
Spare reflector - wide beam, faceted structure	
BREF 2 F	90240 9006 3139... QL
Spare reflector - narrow beam, plain	
TREF 3	90241 9001 3146 QL



Reflector Light Fittings for Special Applications Series 3035 - 3048 OK and OK KRAN

Application:

Sometimes there is little space between the ceiling and the crane runway. For such cases light fittings of the series 3035 – 3048 without stack or ballast, but with protective dust cover and connection box can be supplied. Ballast and ignitor are located in a separate housing.

Design:

3037 - 3048 OK:

Reflector: High anodized pure aluminium with faceted structure (series 3039...) or plain (series 3037/3038 and 3045 - 3048...) with protective dust cover.

3037 - 3048 OK KRAN:

Reflector: As above, but with vibration-

absorbing suspension system as crane lighting in factory halls.

Glass: Hinged, detachable toughened safety glass window, on request.

Electrical connection: Terminal block 3 x 4mm² Ø inside the connection box

Cable entry: 1 plastic cable gland M20 x 1.5 and 1 threaded plastic blanking plug M20 x 1.5 into the connection box.

Mounting system:

3037 - 3048 OK: 1 eyebolt M5.

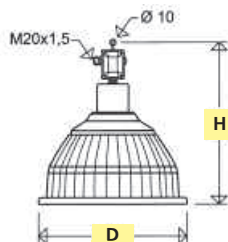
3037 - 3048 OK KRAN: Stirrup with 2 holes 9mm Ø.

Ambient temperature: +30°C max.

Attention:

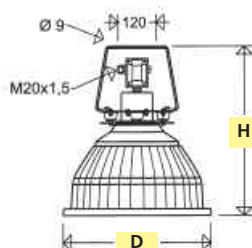
1. The light fitting series for metal halide lamps HIE ≥ 250W may only be operated without a safety glass when using lamps that are approved for open fittings (e.g. OSRAM HQI-/P.../D or PHILIPS HPI-Plus).
2. Ballast and when required, ignitor are located in a separate housing series 10150/... or 1032/... (see outdoor light fittings)

Series 303. OK



Series 303. OK KRAN

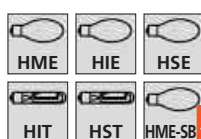
Not for outdoor applications!



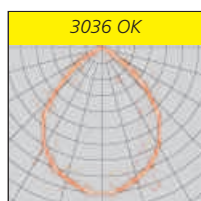
Lamp type	3035/ 3045	3036/ 3046	3037/38/ 3047/48
HME-SB	250 W	500 W	
HME	250 W	400 W	700/1000 W
HIE/HSE/HIT/HST	250 W	400 W	1000 W

3037 - 3048 OK

with connection box



Type	Article no.	Height H (mm)	Diam. D (mm)	Weight ca. kg ²⁾
wide beam for high pressure discharge lamps, socket E40				
3039 OK	30000 0027	500	465	1,7
3037/3038 OK	30000 0011	588	565	3,0



narrow beam for high pressure discharge lamps, socket E40				
3045 OK	30000 0001	432	465	1,5
3046 OK	30000 0003	502	565	1,8
3047/3048 OK ¹⁾	30000 0005	571	700	3,2

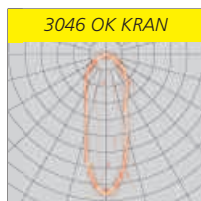
1) Length of lamp with glass window max. 390mm 2) Weights without packing material

3037 - 3048 OK KRAN

crane light fitting with vibration-absorbing suspension system and connection box



Type	Article no.	Height H (mm)	Diam. D (mm)	Weight ca. kg ²⁾
wide beam for high pressure discharge lamps, socket E40				
3039 OK KRAN	30000 0028	530	465	4,5
3037/3038 OK KRAN	30000 0012	623	565	5,8



narrow beam for high pressure discharge lamps, socket E40				
3045 OK KRAN	30000 0002	460	465	3,5
3046 OK KRAN	30000 0004	530	565	3,8
3047/3048 OK KRAN ¹⁾	30000 0006	600	700	5,2

1) Length of lamp with glass window max. 390mm 2) Weights without packing material



Further Series / Versions

- with 6264 D connection box (with 2 plastic glands M20 x 1.5)
- with slightly structured safety glass window
- with wire guard

- for higher ambient temperatures > +30°C
- for blended lamps (HME-SB) up to 500W
- with dust protection ring for areas with a high degree of contamination due to dirt and dust (Z)

Accessories / Spare Parts

Type	Article no.	Type	Article no.
Safety glass window			
SG 2	90244 0002 for 3039, 3045	SG 3	90244 0003 for 3037, 3038, 3046
	for	SG 4	90244 0004 for 3047, 3048
Spare reflector, aluminium, wide beam			
BREF 2 F	90240 9006 for 3039 (faceted structure)	..., narrow beam	
BREF 3	90240 9002 for 3037, 3038 (plain)	TREF 2	90241 9000 for 3045
	for	TREF 3	90241 9001 for 3046
		TREF 4	90241 9002 for 3047, 3048



Prism-Reflector Light Fittings Series 3063/3064 PR...

Application:

Trade-fair and exhibition halls, airports, railway stations, reception halls, foyers, shopping centres, car showrooms, DIY centres, stairways, etc.

Design:

Housing: Traffic white (RAL 9016) powder coated ventilated sheet steel.
Reflector: Acryl prism reflector, wide beam, additionally diffuses light to the side and upwards.

Electrical Connection: Terminal block 3 x 4mm² in side opening housing. 3 terminals 4mm² with wire protection.

Cable entry: 1 grommet for cable to

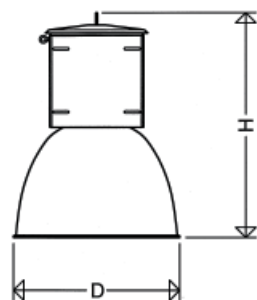
Ø 17mm. PVC cables may be used for connection to the light fitting.

Mounting system: 2 point suspension on eyebolts with inside Ø 15mm and Ø 10mm.

Ambient temperature: +30°C max.

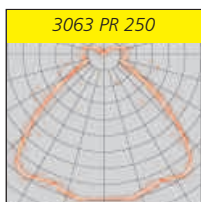
Note:

1. The light fitting series for metal halide lamps HIE ≥ 250W may only be operated without a safety glass when using lamps that are approved for open fittings (e.g. OSRAM, HQI-EP .../D or PHILIPS HPI-Plus ...-P).
2. In cases where the lighting installation is covered by DIN VDE 0108, the light fitting must be secured by a second eyebolt (supplied on request). In this case we recommend the use of low-noise ballasts and ignitors.



Series	D [mm]	H [mm]
3063 PR	412	553
3064 PR	543	600

3063/3064 PR...



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure lamps, socket E40			
3063 PR 250	30605 0001	1 x HME 250	6,1
3064 PR 400	30605 0003	1 x HME 400	7,8
3063 PR 250 HI/HS ³⁾	30605 0005	1 x HIE/HSE 250	7,3
3064 PR 400 HI ³⁾	30605 0007	1 x HIE 400 ²⁾	8,5
3064 PR 400 HI-I	30605 0009	1 x HIE-I 400 ⚠ ²⁾	8,4
3064 PR 400 HS ³⁾	30605 0011	1 x HSE 400	10,3
3064 PR 400 HS-I	30605 0013	1 x HIE-I 400 ⚠	10,2

1) Uncompensated, cat. no. for compensated version see price list

2) If metal halide lamp to be used is suitable for operating with HS ballast. Select HS light fitting for higher luminous flux.

3) We recommend the use of ballasts with timer. (See technical supplement "Electrotechnology/Ignitors")

4) Weights without packing material.



Further Series / Versions

– with audio frequency interference choke



Accessories / Spare Parts

Type	Article no.
Spare acryl reflector, prismatic	
PR REF 2	90291 9002 for 3063 PR
PR REF 3N	90291 9004 for 3064 PR

Decorative Prismatic Reflector Light Fitting Series 3014 – 3016 PR...



Application:

Exhibition halls, airports, stations, reception halls, foyers shopping centers, car showrooms, DIY centres, stairways, etc.

Design:

Upper section: Control gear enclosure, ready wired for connection, encased by powder coated perforated sheet steel (RAL 9006 white aluminium).

Reflector: Acrylic prismatic reflector, wide beam, additionally diffuses light sideward and upwards.

Electrical connection: Using plug at the upper section of the light fitting. A matching coupler is supplied as part of the

package. Opening or dismantling the light fitting is not necessary.

Mounting system: Two point mounting on 2 eye bolts with internal Ø of 15mm and 10mm.

Ambient temperature: Max. +30°C

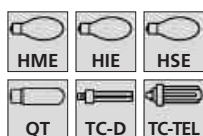
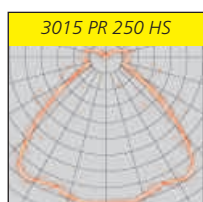
Note:

1. The light fitting series for metal halide lamps HIE ≥ 250W may only be operated without a safety glass when using lamps that are approved for open fittings (e.g. OSRAM, HQI-E/P .../D or PHILIPS HPI-Plus ...-P).
2. For application in salesrooms it is recommend using especially low-noise ballasts and ignitors. Please specify when requesting a quotation or placing an order.

3014 – 3016 PR...



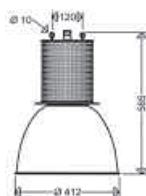
without cover



Series 301. PR...



Series 3015 PR 165 QL



Series	D [mm]	H [mm]
3014 PR	315	483
3015 PR	412	570
3016 PR	542	650
3015 PR QL	412	565

Type	Article no. ¹⁾	Lamps W	Weight ca. Kg ⁷⁾
for high pressure discharge lamps, socket E27			
3014 PR 50	30101 0013	1 x HME 50	3,6
3014 PR 80	30101 0015	1 x HME 80	3,6
3014 PR 125	30101 0017	1 x HME 125	3,9
3014 PR 70 HI E27 ^{5) 6)}	30101 0019	1 x HIE-OF 70	4,2
3014 PR 100 HI E27 ^{5) 6)}	30101 0021	1 x HIE-OF 100	4,5
3015 PR 150 HI E27 ^{5) 6)}	30101 0043	1 x HIE-OF 150	6,7
3014 PR 50 HS ⁵⁾	30101 0025	1 x HSE 50	4,2
3014 PR 70 HS ⁵⁾	30101 0027	1 x HSE 70	4,2
3014 PR 50 HS-I	30101 0029	1 x HSE-I 50	4,1
3014 PR 70 HS-I	30101 0031	1 x HSE-I 70	4,1
for high pressure discharge lamps, socket E40			
3015 PR 250	30101 0001	1 x HME 250	5,3
3016 PR 400	30101 0005	1 x HME 400	7,5
3015 PR 250 HI/HS ⁵⁾	30101 0003	1 x HIE/HSE 250	6,9
3016 PR 400 HI ⁵⁾	30101 0007	1 x HIE 400 ^{2) 4)}	9,3
3016 PR 400 HI-I	30101 0011	1 x HIE-I 400 ^{2) 4)}	9,7
3016 PR 400 HS ⁵⁾	30101 0009	1 x HSE 400	9,8
3016 PR 400 HS-I	30101 0040	1 x HIE-I 400 ³⁾	9,7
for tungsten halogen lamps, socket E27			
3014 PR E 27	30101 0033	1 x QT 100	2,7
for compact fluorescent lamps, socket G 24d-3			
3014 PR 26 KL	30101 0036	1 x TC-D 26	3,2
for compact fluorescent lamps, socket GX 24q-3 or G 24d-4			
3014 PR 26 KL EVG	30101 0042	1 x TC-TEL 26	2,7
3014 PR 32 KL EVG	30101 0046	1 x TC-TEL 32	2,7
3014 PR 42 KL EVG	30101 0038	1 x TC-TEL 42	2,7

1) Uncompensated, see price list for Cat. Nos. for compensated version

2) For OSRAM HQI-E/P 400/D, PHILIPS HPI Plus 400 BU...-P or equivalent

3) PHILIPSHPI Plus 400 BUS-P

4) If metal halide lamp to be used is suitable for operating with HS ballast, please select

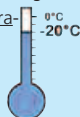
HS light fitting for higher luminous flux
5) We recommend the use of ignitor with timer.. (See technical supplement "Electrotechnology/Ignitors")

6) Other lamp holders on request

7) Weights without packing material

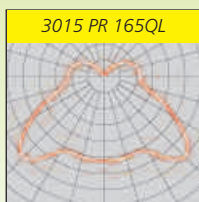
Advantages of the Induction lamp system QL:

- Ideal for difficult to reach areas or with long maintenance periods
- Extremely long working life (up to 60.000 hours, see manufacturers data)
- flicker-free, instant start < 0.1 sec. suitable for emergency application
- instant restart with almost full light output
- constant high luminous flux over a wide range of mains voltage (suitable for DC)
- low ignition temperature and constant high luminous flux over a wide temperature range (suitable for outdoor and low temperature application to -20°C)
- universal mounting
- maintenance-free



3015 PR 165QL

with induction-type lamp system QL



Application:

Difficult to reach locations where a lamp replacement would be difficult and quite costly or if generally long maintenance intervals are wanted for cost saving.

Design:

As 3015 PR... but with electronic control gear (EVG) and induction lamp

Type	Article no.	Lamps W	Weight ca. Kg
with induction lamp and EVG			
3015 PR 165QL	30101 0039	1 x LMG165	4,3

NEW

3014 PR .. LED

with high power LED



Application:

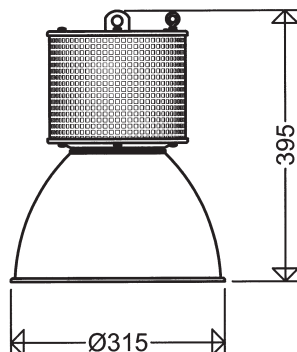
Receptions, foyers, canteens, salesrooms, public areas, etc.

Design:

As standard type but with shallower housing, 32W high power LED module, colour temperature 4.000K

Advantages of LED-version:

- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, Ta=25°C)
- low maintenance costs due to long maintenance intervals
- immediate full light output even at low temperatures
- ideal for frequent operating cycles
- resistant against shocks and vibrations
- no UV-radiation



Type	Article-No.	LED module	power consumption	Weight ca. kg ¹⁾
3014 PR 32 LED	30101 0050	32W	38W	3,7

1) Weights without packing material.

Further Series / Versions

- with aluminium reflector (Series 3019-3026..)
- with cover prismatic or plain
- with audio frequency suppresser



All above mentioned versions are available with pure aluminium reflectors (Series 3019 – 3026...) Safety glass windows and spare parts (see "Accessories / Spare Parts" for Series 3169 – 3189...)

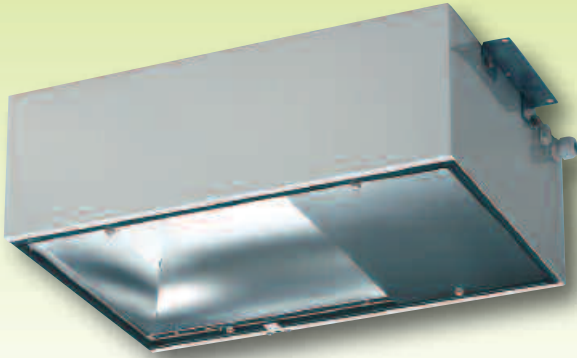
Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

Accessories / Spare Parts

Type	Article no.
Spare reflector Acrylic, prismatic	
PR REF 1	90291 9001 for 3014 PR
PR REF 2	90291 9002 for 3015 PR
PR REF 3	90291 9003 for 3016 PR (to ca. March 2003)
PR REF 3 N	90291 9004 for 3016 PR (from ca. April 2003)

Sheet Steel Industrial Light Fittings Series 3070



Application:

Industrial halls, warehouses, chemical workshops, cold stores, covered areas such as entrances, filling stations, bus stations etc.

Design:

Housing: Light grey (RAL 7035) powder coated sheet steel, or alternatively in stainless steel. Complete with control gear and internally wired.

Glass: Hinged, detachable toughened safety glass without frame.

Central locking system: Positioned on opposite side to the hinges and operated by a 5mm Allen key.

Reflector: Anodized mirror finish pure aluminium.

Electrical Connection: Terminal block 3 x 4mm² in covered side compartment of the housing.

Cable entry: 1 plastic gland M25 x 1.5 and 1 plastic blanking plug M25 x 1.5 on the short side.

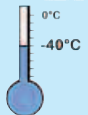
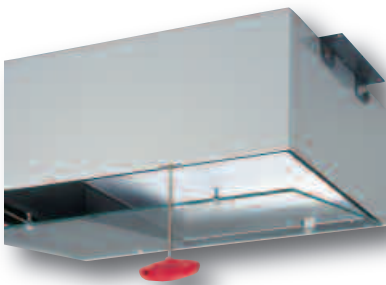
Mounting system: Angle brackets on the sides for direct ceiling mounting (4 holes 9mm Ø) or suspension by means of chains or steel ropes with snap-hooks.

Ambient temperature: +30°C max.

SCHUCH quality - your advantage

- **robust industrial design for reliable long-term service**
  - sheet steel housing (alternatively in stainless steel), high-grade powder coating for good corrosion resistance
  - toughened safety glass (5mm thick) window without frame
  - sturdy central locking system with internal hinge
- **easy installation and maintenance**
  - universal angle brackets for direct ceiling mounting or suspended mounting to chains or steel ropes
  - central locking system and hinged safety glass window for easy connection and lamp change
  - spacious lamp and terminal compartment, easy accessible
- **high anodized purest aluminium optimized photometric efficient reflect system [low-wide beam, extreme wide beam (SB) and asymmetric (SA)]**
- **universal and versatile for diverse ambient conditions**
  - suitable for a wide variety of lamps (elliptical or tubular-shape, double ended with lamp holders at both ends or induction-type lamps)
  - many product designs and accessories for various operating conditions, application and technical solutions available (see "Further Series / Versions")
  - standard version suitable for operation in ambient temperatures/cold stores to -20°C (HME), -30°C (HI/HS) or -40°C (ENDURA)
- **shock tested: RK 1,6/16A**
- **optional: ball-game safe, tested and certified according to DIN VDE 710 Part 13/05.81**

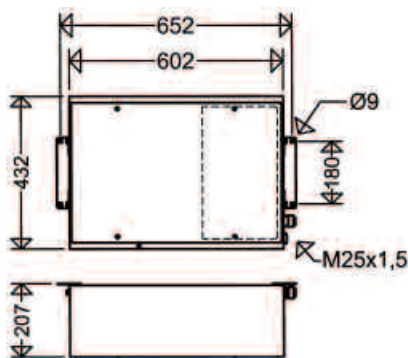
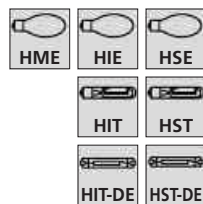
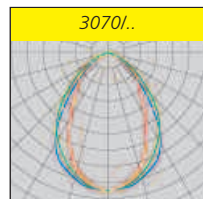
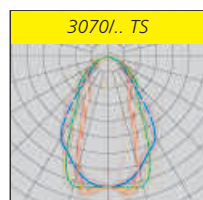
STAINLESS STEEL
corrosion resistant



Simple quick connection and lamp change with the comfortable central locking system.

3070...

high bay light fittings



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for high pressure discharge lamps, socket E40			
3070/250	30700 0001	1 x HME 250	13,2
3070/400	30700 0003	1 x HME 400	14,8
3070/250 HI/HS ⁴⁾	30700 0005	1 x HIE/HSE/HIT/HST 250	15,1
3070/400 HI ⁴⁾	30700 0007	1 x HIE/HIT 400 ^{2) 3)}	16,7
3070/400 HS ⁴⁾	30700 0011	1 x HSE/HST 400	16,7
for high pressure discharge lamps, socket Fc2			
3070/250 HI-TS ⁴⁾	30700 0013	1 x HIT-DE 250	15,1
3070/400 HI-TS ⁴⁾	30700 0015	1 x HIT-DE 400 ^{2) 3)}	16,7
3070/250 HS-TS ⁴⁾	30700 0017	1 x HST-DE 250	15,1
3070/400 HS-TS ⁴⁾	30700 0019	1 x HST-DE 400	16,7

1) Uncompensated, see price list for Cat. Nos. for compensated version

2) For OSRAM HQI-BT 400/D, HQI-E 400/D, HQI-TS 400/D, PHILIPS Master HPI Plus 400, Master HPI-T 400 or equivalent

3) If metal halide lamp to be used is suitable

for operating with HS ballast please select HS light fitting for higher luminous flux

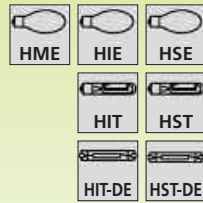
4) We recommend the use of ignitor with timer..

5) Weights without packing material

3070... FF



for locations with increased fire risk



Application:

e.g. as stipulated in VDE0100 Part 482

Halls with increased fire risk due to deposits of combustible dusts and fibres

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ³⁾

for high pressure discharge lamps, socket E40

3070/250 FF	30702 0001	1 x HME 250	13,2
3070/250 HI/HS FF ²⁾	30702 0003	1 x HIE/HSE/HIT/HST 250	15,1

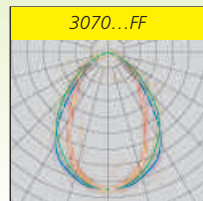
for high pressure discharge lamps, socket Fc2

3070/250 HI-TS FF ²⁾	30702 0005	1 x HIT-DE 250	15,1
3070/250 HS-TS FF ²⁾	30702 0007	1 x HST-DE 250	15,1

1) Uncomp., article no. for comp. see price list

3) Weights without packing material.

2) We recommend the use of ignitor with timer..

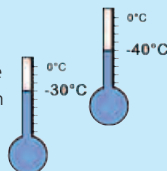


Advantages of the Induction-type lamp system:

- Ideal for difficult to reach areas or with long maintenance periods
- Extremely long working life (up to 60.000 hours, see manufacturers data)
- flicker-free, instant start < 0.1 sec., suitable for emergency applications
- instant restart with almost full light output
- constant high luminous flux (12 000lm) over a wide range of mains voltage, suitable for DC
- wide supply voltage range 120-240V AC
- low ignition temperature and constant high luminous flux over a wide temperature range, suitable for outdoor and low temperature applications to -20°C
- good colour reproduction / rendering
- lamp can be mounted at any angle; when mounted vertical or inclined, connection to face downwards
- maintenance-free

Note:

The compact flood light 3070/150 ENDURA is suitable for use at temperatures down to -30°C (version for -40°C upon request).



Special versions of the ENDURA compact flood light can also be supplied for use in potentially explosive atmospheres:

For category 2 (Zone 1)

(Series e2070 ENDURA)

For category 3 (Zone 2)

(Series n2070 ENDURA).

For category M2

(Series e2080 ENDURA)

see catalogue "ex-proof light fittings"



3070... ENDURA



with induction lamp system ENDURA



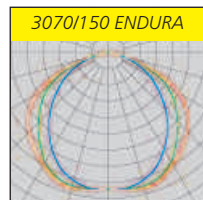
Application:

In difficult to reach places where a lamp replacement would be time consuming and quite costly or if generally long maintenance intervals are wanted for cost saving. For cold storage or refrigerated rooms for

temperatures down to -30°C or -40°C, or covered areas generally outdoors.

Design:

As 3070... - but with electronic operating system (EVG) and with induction-type lamp.



Type	Article no.	Lamps W	Weight ca. kg

with induction lamp and EVG

3070/150 ENDURA	30700 0023	1 x LMT 150	12,5



Photo: BASF

3070... SA



with asymmetrical reflector system

Application:

Lighting applications with limited backward radiation e.g. assembly shops, assembly lines, loading platforms etc.

Design:

As 3070 but with asymmetrical reflector system made from high anodized pure aluminium.



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾

for high pressure discharge lamps, socket Fc2

3070/250 HI-TS SA ³⁾	30700 0045	1 x HIT-DE 250	15,9
3070/400 HI-TS SA ³⁾	30700 0047	1 x HIT-DE 400 ²⁾	17,4
3070/250 HS-TS SA ³⁾	30700 0049	1 x HST-DE 250	15,9
3070/400 HS-TS SA ³⁾	30700 0051	1 x HST-DE 400	17,4

1) Uncomp., article no. for comp. see price list

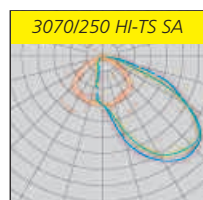
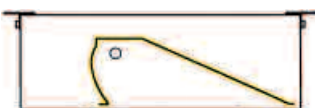
2) For Osram HQI-TS 400 or equivalent

If metal halide lamp to be used is suitable for operating with HS ballast please select

HS light fitting for higher luminous flux

3) We recommend the use of ignitor with timer..

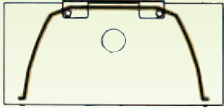
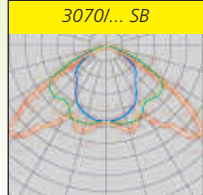
4) Weights without packing material.



3070... SB



with extreme wide beam reflector for low light point heights



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure discharge lamps, socket E40			
3070/250 SB	30700 0101	1 x HME 250	13,2
3070/400 SB	30700 0103	1 x HME 400	14,8
3070/250 HI/HS SB ³⁾	30700 0105	1 x HIE/HSE/HIT/HST 250	15,1
3070/400 HI SB ³⁾	30700 0107	1 x HIE/HIT 400	16,7
3070/400 HS SB ³⁾	30700 0111	1 x HSE/HST 400	16,7

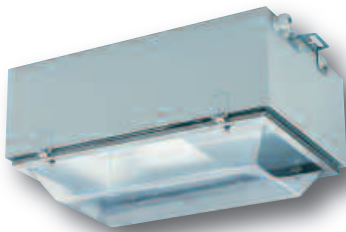
for high pressure discharge lamps, socket Fc2			
3070/250 HI-TS SB ³⁾	30700 0113	1 x HIT-DE 250	15,1
3070/400 HI-TS SB ³⁾	30700 0115	1 x HIT-DE 400	14,8
3070/250 HS-TS SB ³⁾	30700 0117	1 x HST-DE 250	13,2
3070/400 HS-TS SB ³⁾	30700 0119	1 x HST-DE 400	14,8

- 1) Uncomp., article no. for comp. see price list
 2) For OSRAM HQI-TS 400 or equivalent
 If metal halide lamp to be used is suitable for operating with HS ballast please select
 3) We recommend the use of ignitor with timer.
 4) Weights without packing material.

3070... SSK



for sand/glass blasting areas and cabins



Application:

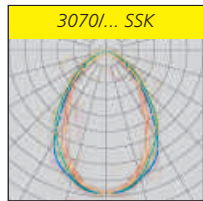
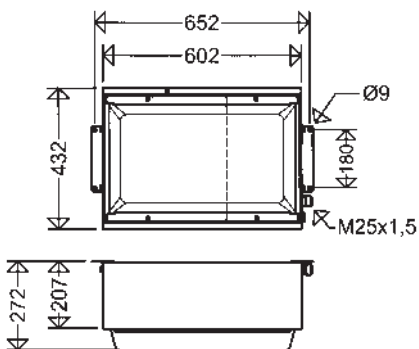
Rooms and cabins where sand and glass pearl etc. are used for the treatment of goods.

Design:

As 3070 but with easy to replace polycarbonate protective cover instead of safety glass window.

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure lamps, socket E 40			
3070/250 SSK	30703 0001	1 x HME 250	14,1
3070/250 HI/HS SSK ²⁾	30703 0003	1 x HIE-P/HSE/HST 250 ³⁾	16,0
for high pressure lamps, socket Fc2			
3070/250 HS-TS SSK ²⁾	30703 0007	1 x HST-DE 250	16,0

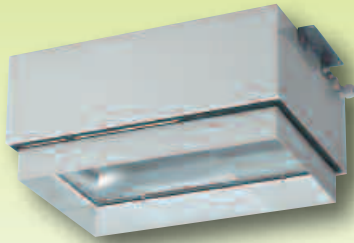
- 1) Uncomp., article no. for comp. see price list (400 W upon request)
 2) We recommend the use of ignitor with timer.
 3) When using HIE lamps only use lamps with plastic protective covering (e.g. OSRAM HQI-E/P. 250)
 4) Weights without packing material



3070... Z



for areas with high levels of dirt and dust deposits



retrofitable!

Application:

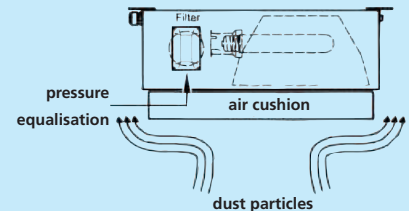
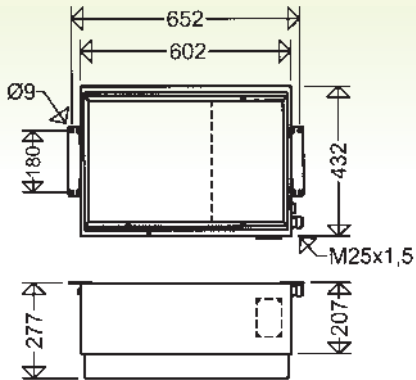
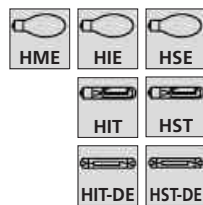
Areas with high dust and dirt deposit e.g. in the pulp and paper industries, brick, limestone and cement industries, plaster storage, refuge depots, rubbish sorting and thermal handling installations etc.

Design:

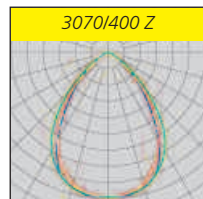
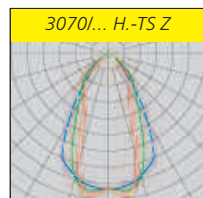
Same as 3070... but including self-cleaning particle filter for pressure equalisation as well as with painted sheet steel dust protection ring for protecting the light exit surface from dust deposits.

Advantages of the air flow system with particle filter:

- good pressure equalisation due to the built-in particle filter (allowing the light fitting to breathe freely when switching on/off)
- self cleaning particle filter to ensure protection against deposits of dust and dirt inside the light fitting
- air flow system for reduction/prevention of contamination of the outer light exit surfaces (i.e. avoidance of reduction of the illumination caused by any contamination)



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure discharge lamps, socket E40			
3070/250 Z	30705 0001	1 x HME 250	15,5
3070/400 Z	30705 0003	1 x HME 400	17,1
3070/250 HI/HS Z ³⁾	30705 0005	1 x HIE/HSE/HIT/HST 250	17,4
3070/400 HI Z ³⁾	30705 0007	1 x HIE/HIT 400 ²⁾	19,0
3070/400 HS Z ³⁾	30705 0009	1 x HSE/HST 400	19,0



for high pressure discharge lamps, socket Fc2			
3070/250 HI-TS Z ³⁾	30705 0011	1 x HIT-DE 250	17,4
3070/400 HI-TS Z ³⁾	30705 0013	1 x HIT-DE 400 ²⁾	19,0
3070/250 HS-TS Z ³⁾	30705 0015	1 x HST-DE 250	17,4
3070/400 HS-TS Z ³⁾	30705 0017	1 x HST-DE 400	19,0

for locations with increased fire risk



3070/250 Z FF	30705 0101	1 x HME 250	15,5
3070/250 HI/HS Z FF ³⁾	30705 0105	1 x HIT/HST/HIE/HSE 250	17,4
3070/250 HI-TS Z FF ³⁾	30705 0111	1 x HIT-DE 250	17,4
3070/250 HS-TS Z FF ³⁾	30705 0115	1 x HST-DE 250	17,4

1) Uncompensated, article nos. for compensated version see price list

2) If metal halide lamp to be used is suitable for operating with HS ballast please select HS

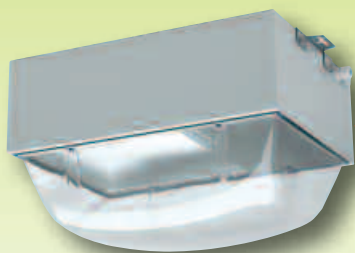
light fitting for higher luminous flux
3) We recommend the use of ignitor with timer..

4) Weights without packing material



3070... IFS

for applications in food industry areas



- in accordance with the IFS-Standard
- with FSA-Certificate
- retrofitable

Application:

Production halls in the food industry, locations which come under the requirements of the IFS (International Food Standard) e.g. manufacture of food packaging, rooms with higher ambient temperatures etc.

Design:

Same as the standard version but with additional hinged and detachable UV protective painted polycarbonate bowl in "Sandwich"-design.

Advantages of the "Sandwich"-design:

- plain walled enclosure designed to avoid surface dust accumulation and without any external closure parts
- additional PC cover eliminates the risk of glass splinter falling down (shatter protection)
- polycarbonate glass bowl with additional UV protective paint finish
- no special lamps with plastic protective coating required
- special paint finish for protection against aggressive cleaning agents and disinfectants available upon request.
- fulfils the requirements of IFS (International Food Standard) for lighting in areas of risk in food manufacture and processing
- a FSA certificate confirms the compliance to the IFS and the food hygiene regulations

NEW

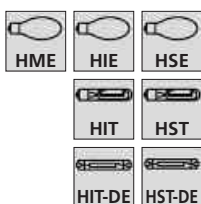
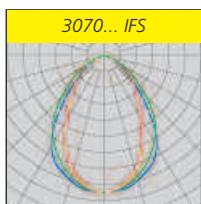
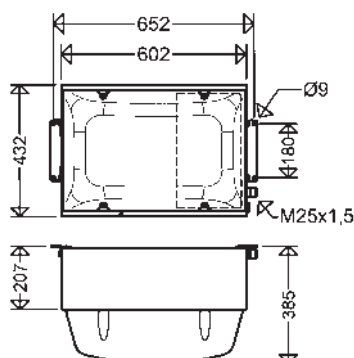
Anti-bacterial painting

If required our series 3070 ...IFS can be supplied with a special anti-bacterial paint.

Especially recommended for dairies, milk-processing plants, fruit juice industry and fish-processing plants

Advantages:

- inhibition of bacterial growth on the surface of the housing
- good long term effect
- significant reduction of disinfectant consumption and extension of the disinfection cycles respectively"



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure discharge lamps, socket E40			
3070/250 IFS	30707 0001	1 x HME 250	14,0
3070/400 IFS	30707 0003	1 x HME 400	15,6
3070/250 HI/HS IFS ³⁾	30707 0005	1 x HIE/HIT/HSE/HST 250	15,9
3070/400 HI IFS ³⁾	30707 0007	1 x HIE/HIT 400 ²⁾	17,5
3070/400 HS IFS ³⁾	30707 0009	1 x HSE/HST 400	17,5

for high pressure discharge lamps, socket Fc2

3070/250 HI-TS IFS ³⁾	30707 0011	1 x HIT-DE 250	15,9
3070/400 HI-TS IFS ³⁾	30707 0013	1 x HIT-DE 400 ²⁾	17,5
3070/250 HS-TS IFS ³⁾	30707 0015	1 x HST-DE 250	15,9
3070/400 HS-TS IFS ³⁾	30707 0017	1 x HST-DE 400	17,5

1) Uncomp., art. nos. for comp. see price list

2) For OSRAM HQI-E/BT 400/D, PHILIPS Master HPI (-T) Plus 400 or equivalent

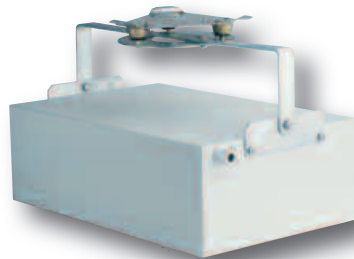
If metal halide lamp to be used is suitable for operating with HS ballast please select

HS light fitting for higher luminous flux
3) We recommend the use of ignitor with timer..
4) Weights without packing material



Further Series / Versions

- with emergency light circuit (design ...SLS) to bypass ignition time for high pressure lamps
- with emergency light lamp holder E27 and separate terminal for the emergency supply
- with frame for recessed installation
- with painted or glass pearl blasted stainless steel enclosure
- with painted aluminium enclosure
- with internal self cleaning particle filter for pressure equalization (AF)
- with swivel bracket up to 45° (SWB)
- with pipe clamps for mounting on conduit or poles
- with slightly structured safety glass window
- with vibration absorbing suspension mounting (SD and SD SWB, see photos)
- with double mirror system for separately lamp circuits 250/150 W HIE (type 3070/250/150 HIE) e.g. for training and competitions in gymnasiums
- for higher ambient temperatures > +30°C
- for low ambient temperatures down to -30°C
- in Ex design (e2070/n2070... EN-DURA see catalogue section "Ex-Lighting")



Compact flood light 3070/... with vibration absorbing 3-point suspension and swivel mounting bracket (SD SWB)

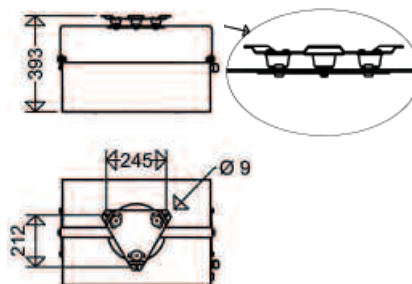
Swivel range: $\pm 45^\circ$ in the longitudinal axis



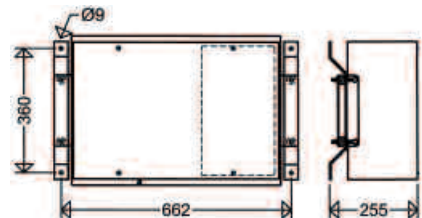
Compact flood light 3070/... with vibration absorbing suspension (SD)

for application in areas with heavy shocks and vibrations (e.g. turbine halls, forging plants, cranes in industrial halls etc).

vibration absorbing suspension (SD SWB)



vibration absorbing suspension (SD)



Accessories / Spare Parts

Type	Article no.	
3070/010	90073 9000	safety glass window for quick release clamps (to March 2005)
3070/011	90073 9003	safety glass window for central locking system (from April 2005)
3070/020 SSK	90073 9001	polycarbonate protective cover for 3070... SSK (to March 2005)
3070/021 SSK	90073 9005	polycarbonate protective cover for 3070... SSK (from April 2005)
3070/010 Z	90073 9002	spare safety glass window for 3070.. Z (to March 2005)
3070/013 Z	90073 9011	spare safety glass window for 3070.. Z for central locking system (from April 2005)
3070/012 IFS	90073 9006	spare safety glass window for IFS version
3070/022 IFS	90073 9007	polycarbonate protective bowl, painted for IFS version
3070/023 IFS	90073 9008	polycarbonate protective bowl and safety glass assembly for IFS version
AF 02	90300 9002	spare filter for 3070... Z (to June 2005)
AF 03	90300 9003	spare filter, internal, for 3070... Z (from July 2005)
3070 SWB	90231 0001	swivel bracket with mounting accessories
2560	25600 9000	plastic cable gland M25 x 1.5
2572	25720 9000	threaded plastic blanking plug M25 x 1.5
Safety light device		
SLS	surcharge	incorporated safety light system with 1 x E27 lamp holder, but without lamp
Vibration absorbing suspension devices		
SD 3070	90231 0002	for types without swivelling bracket
SD SWB 3070	90231 0003	vibration absorbing 3-point suspension device for swivelling mounting bracket

Wide Area – Compact Flood Lights to 2 x 400W or 1000W Series 3170...



Application:

To illuminate large areas and high buildings or where a high illumination is required (e.g. harbours, airports, foundries, rolling and smelting works, machine shops and sorting halls etc.)

Design:

Housing: Light grey (RAL 7035) powder coated sheet steel, or alternatively in stainless steel. Complete with up to control gear 2 x 400W and internally wired.

Glass: Hinged, detachable toughened safety glass without frame.

Central locking system: Positioned on opposite side to the hinges and operated by

a 5mm Allen key.

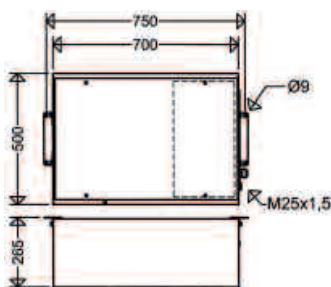
Reflector: Anodized mirror finish purest aluminium.

Electrical Connection: Terminal block 4 or 3 x 4mm² in covered side compartment of the housing.

Cable entry: 1 plastic gland M25 x 1.5 and 1 plastic blanking plug M25 x 1.5 on the short side.

Mounting system: Angle brackets on the sides for direct ceiling mounting (4 holes 9mm Ø) or suspension by means of chains or steel ropes with snap-hooks.

Ambient temperature: +30°C max.



SCHUCH quality - your advantage:

- robust industrial design for reliable long-term service**
  - sheet steel housing (alternatively in stainless steel), high-grade powder coating for good corrosion resistance
  - toughened safety glass (5mm thick) window without frame
  - sturdy central locking system with internal hinge
- easy installation and maintenance**
  - universal angle brackets for direct ceiling mounting or suspended mounting to chains or steel ropes
  - Original SCHUCH-central locking system and hinged safety glass window, spacious lamp and terminal compartment for easy connection and lamp change
- optimized photometric efficient reflector system made of high anodized pure aluminium (low-wide beam and wide beam)**

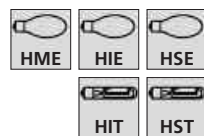
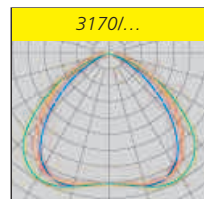
STAINLESS STEEL
corrosion resistant



3170...



low-wide beam flood light



Type	Article no.	Lamps W	Weight ca. kg ⁵⁾
for high pressure discharge lamps, socket E40			
3170/250/2	31701 0008 ¹⁾	2 x HME 250	20,6
3170/400/2	31701 0009 ¹⁾	2 x HME 400	22,6
3170/250/2 HI/HS ⁴⁾	31701 0001 ¹⁾	2 x HIT/HST/HIE/HSE 250	23,1
3170/400/2 HI ⁴⁾	31701 0003 ¹⁾	2 x HIT/HIE 400 ²⁾	25,3
3170/400/2 HS ⁴⁾	31701 0005 ¹⁾	2 x HST/HSE 400	25,3
3170/1000 HI/HS ZG ³⁾⁴⁾	31701 0007	1 x HIT/HST 1000	16,5

1) Uncompensated, see price list for Cat. Nos. for compensated version

2) If metal halide lamp to be used is suitable for operating with HS ballast, please select HS light fitting for higher luminous flux

3) Without built-in ballast (Ballast in separate enclosure 1032)

4) We recommend the use of ignitor with timer..

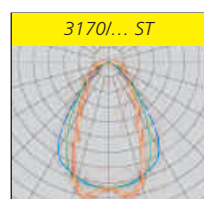
5) Weights without packing material.

NEW

3170... ST



low-wide beam flood light



Type	Article no.	Lamps W	Weight ca. kg ⁵⁾
for high pressure discharge lamps, socket E40			
3170/250/2 ST	31701 0028 ¹⁾	2 x HME 250	20,6
3170/400/2 ST	31701 0030 ¹⁾	2 x HME 400	22,6
3170/250/2 HI/HS ST ⁴⁾	31701 0021 ¹⁾	2 x HIT/HST/HIE/HSE 250	23,1
3170/400/2 HI ST ⁴⁾	31701 0023 ¹⁾	2 x HIT/HIE 400 ²⁾	25,3
3170/400/2 HS ST ⁴⁾	31701 0025 ¹⁾	2 x HST/HSE 400	25,3
3170/1000 HI/HS ZG ST ³⁾⁴⁾	31701 0027	1 x HIT/HST 1000	16,5

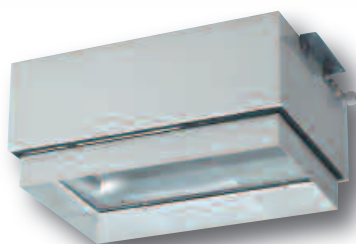
1) - 5) see series 3170...



NEW

3170... Z

for areas with high dust and dirt deposit



retrofitable!

Application:

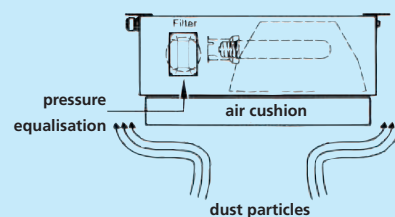
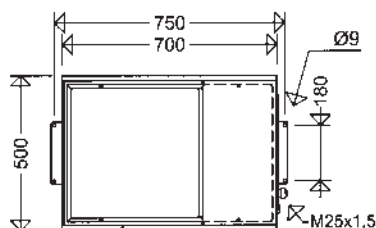
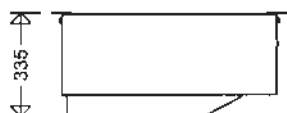
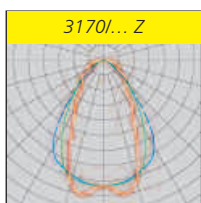
Areas with high dust and dirt deposit e.g. in the pulp and paper industries, brick, limestone and cement industries, plaster storage etc.

Design:

Same as 3170... but including built-in self-cleaning particle filter for pressure equalisation as well as with painted sheet steel dust protection ring for protecting the light exit surface from dust deposits.

Advantages of the air flow system with particle filter:

- good pressure equalisation due to the built-in particle filter (allowing the light fitting to breathe freely when switching on/off)
- self cleaning particle filter to ensure protection against deposits of dust and dirt inside of the light fitting
- air flow system to reduction/prevention of contamination of the outer light exit surfaces (i.e. avoidance of any reduction of the illumination caused by any contamination)



Type	Artikel-Nr.	Lampen Watt	Gewicht ca. kg ⁴⁾
for high pressure discharge lamps, socket E40			
3170/250/2 Z	31701 0048 ¹⁾	2 x HME 250	20,6
3170/400/2 Z	31701 0050 ¹⁾	2 x HME 400	22,6
3170/250/2 HI/HS Z ⁴⁾	31701 0041 ¹⁾	2 x HIT/HST/HIE/HSE 250	23,1
3170/400/2 HI Z ⁴⁾	31701 0043 ¹⁾	2 x HIT/HIE 400 ²⁾	25,3
3170/400/2 HS Z ⁴⁾	31701 0045 ¹⁾	2 x HST/HSE 400	25,3
3170/1000 HI/HS ZG Z ³⁾⁴⁾	31701 0047	1 x HIT/HST 1000	16,5

1) - 3) see series 3170...

Note:

The ballast for the types 3170/1000 HI and HS is in a separate ballast enclosure (series 1032... see "outdoor light fittings"!)



Further Series / Versions

- with swivel bracket
- with structured glass window
- for higher ambient temperatures >+30°C
- with frame for recessed installation
- with painted or glass pearl blasted stainless steel enclosure
- with vibration-reducing suspension

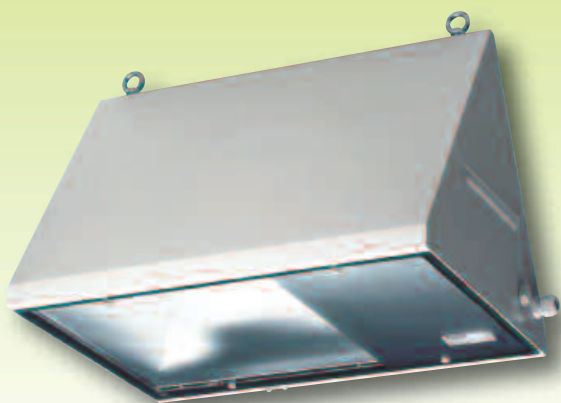
STAINLESS STEEL
corrosion resistant

Accessories / Spare Parts

Type	Article No.	
1032/1000 HI	10320 0013 ¹⁾	ballast box with VG HI 1000W
1032/1000 HS	10320 0015 ¹⁾	ballast box with VG HS 1000W
3170/010	90293 9000	spare safety glass
3170/010 Z	90293 9001	spare safety glass for 3170... Z
AF 04	90300 9004	
2560	25600 9000	plastic cable gland M25 x 1.5
2572	25720 9000	plastic threaded blanking plug M25 x 1.5

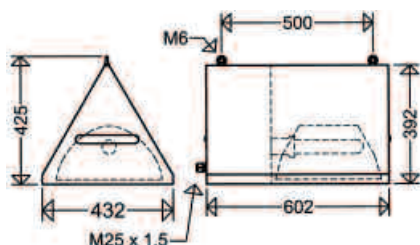
1) Uncompensated, Article No. for compensated version see price list

Sheet Steel Industrial Light Fitting for high ambient temperatures and ▽/▽▽-locations Series 3084 - 3086...



Note:

Also available for high pressure double-ended tubular lamps, socket Fc2
(Versions 3084 - 3086... -TS).



Application:

Locations with high ambient temperatures, with excessive dirt and dust exposure as well as high fire risk due to deposits of combustible dusts and fibres as required in VDE 0100, section 482.

Design:

Housing: Special triangular shaped, sheet steel or alternatively stainless steel, powder coated in light grey (RAL 7035). Including all control gear and fully internally wired for installation.

Glass: 5mm thick hinged toughened safety glass window without frame.

Central locking system: Positioned on op-

posite side to the hinges and operated by a 5mm Allen key.

Reflector: Anodized mirror finish pure aluminium.

Electrical connection: Terminal block 3 x 4mm² in covered side compartment of the housing.

Cable entry: 1 plastic gland M25 x 1.5 and 1 plastic blanking plug M25 x 1.5 on the short side.

Mounting: 2 eye bolts M6.

Ambient temperatures:

3084... +40°C max.

3085... +50°C max.

3086... +60°C max.

SCHUCH quality - Your advantage:

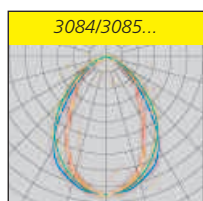
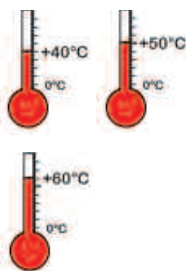
- robust industrial design for reliable long-term service**
  - sturdy sheet steel (alternatively stainless steel or aluminium) high quality powder coated in light grey (RAL 7035)
  - triangular shaped plain walled enclosure designed to avoid surface dust accumulation and without any external closure parts
  - frameless 5mm thick toughened safety glass window
  - sturdy central locking system with internal hinge
- installation and maintenance friendly**
  - central locking system and hinged safety glass window for easy connection and lamp change
  - spacious lamp and terminal compartment, easy accessible
- high anodized pure aluminium optimized photometric efficient reflect system [low-wide beam, extreme wide beam (SB) and asymmetric (SA)]**
- universal and versatile for diverse ambient conditions**
  - ▽ or ▽▽ - requirements are being kept for up to 60°C and 400W
  - versions for ambient temperature +70°C on request
  - many product designs and accessories available (see "Further Series / Versions")

STAINLESS STEEL
corrosion resistant



3084 - 3086...

low-wide beam



IP65



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for ambient temperatures up to +40°C, high pressure lamps, socket E40			
3084/250	30840 0001	1 x HME 250	13,3
3084/400	30840 0003	1 x HME 400	14,1
3084/250 HI/HS ³⁾	30840 0005	1 x HIE/HIT/HSE/HST 250	15,8
3084/400 HI ³⁾	30840 0007	1 x HIE/HIT 400 ²⁾	16,7
3084/400 HS ³⁾	30840 0009	1 x HSE/HST 400	16,7
for ambient temperatures up to +50°C, high pressure lamps, socket E40			
3085/250	30850 0001	1 x HME 250	13,3
3085/400	30850 0003	1 x HME 400	14,1
3085/250 HI/HS ³⁾	30850 0005	1 x HIE/HIT/HSE/HST 250	15,8
3085/400 HI ³⁾	30850 0007	1 x HIE/HIT 400 ²⁾	16,7
3085/400 HS ³⁾	30850 0009	1 x HSE/HST 400	16,7
for ambient temperatures up to +60°C, high pressure lamps, socket E40			
3086/250	30860 0001	1 x HME 250	13,3
3086/400	30860 0003	1 x HME 400	14,1
3086/250 HI/HS ³⁾	30860 0005	1 x HIE/HIT/HSE/HST 250	15,8
3086/400 HI ³⁾	30860 0007	1 x HIE/HIT 400 ²⁾	16,7
3086/400 HS ³⁾	30860 0009	1 x HSE/HST 400	16,7

1) Uncomp., article no. for comp. see price list

2) For OSRAM HQI-E/BT 400/D, PHILIPS HPI (-T)

Plus 400 BU or equivalent. If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fit-

tings for higher luminous flux

3) We recommend the use of ignitor with timer..

4) Not suitable for 400W types

5) Weights without packing material

3084 - 3086... SB

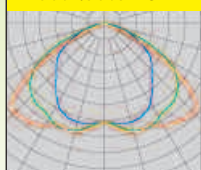
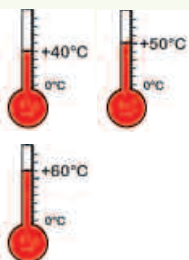
IP65



with extreme wide beam mirror reflector system for low light spot height



3084/3085... SB



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for ambient temperatures up to +40°C - high pressure lamps, socket E40			
3084/250 SB	30840 0101	1 x HME 250	13,3
3084/400 SB	30840 0103	1 x HME 400	14,1
3084/250 HI/HS SB ³⁾	30840 0105	1 x HIE/HIT/HSE/HST 250	15,8
3084/400 HI SB ³⁾	30840 0107	1 x HIE/HIT 400 ²⁾	16,7
3084/400 HS SB ³⁾	30840 0109	1 x HSE/HST 400	16,8
for ambient temperatures up to +50°C - high pressure lamps, socket E40			
3085/250 SB	30850 0101	1 x HME 250	13,3
3085/400 SB	30850 0103	1 x HME 400	14,1
3085/250 HI/HS SB ³⁾	30850 0105	1 x HIE/HIT/HSE/HST 250	15,8
3085/400 HI SB ³⁾	30850 0107	1 x HIE/HIT 400 ²⁾	16,7
3085/400 HS SB ³⁾	30850 0109	1 x HSE/HST 400	16,7
for ambient temperatures up to +60°C - high pressure lamps, socket E40			
3086/250 SB	30860 0101	1 x HME 250	13,3
3086/400 SB	30860 0103	1 x HME 400	14,1
3086/250 HI/HS SB ³⁾	30860 0105	1 x HIE/ HIT/HSE/HST 250	15,8
3086/400 HI SB ³⁾	30860 0107	1 x HIE/HIT 400 ²⁾	16,7
3086/400 HS SB ³⁾	30860 0109	1 x HSE/HST 400	16,7

1) Uncomp., article no. for comp. see price list
 2) For OSRAM HQI-E/T 400/D, PHILIPS HPI (-T) Plus 400 or equivalent. If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fittings for

higher luminous flux
 3) We recommend the use of ignitor with timer..
 4) Not suitable for 400W types
 5) Weights without packing material

3084 - 3085... IFS

IP65



for applications in food industry areas

Applications:

Production halls in the food industry, locations which come under the requirements of the IFS (International Food Standard) e.g. manufacture of food packaging, rooms with higher ambient temperatures etc.

Design:

Same as 3084 - 3086... but including UV protective painted Polycarbonate bowl in "Sandwich"-design.



- in accordance with the IFS-Standard
- with FSA-Certificate
- retrofitable

NEW

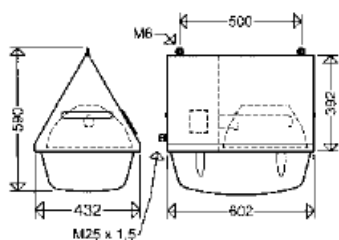
With anti-bacterial painting

If required our series 3084... IFS can be supplied with a special anti-bacterial paint.

Especially recommended for dairies, milk-processing plants, fruit juice industry and fish-processing plants. Please consult us in case of interest.

Advantages:

- inhibition of bacterial growth on the surface of the housing
- good long term effect
- significant reduction of desinfectant consumption and extension of the desinfection cycles respectively"

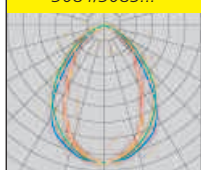
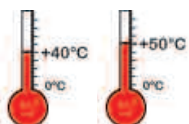


Advantages of the "Sandwich"-design:

- triangular shaped plain walled enclosure designed to avoid surface dust accumulation and without any external closure parts
- additional PC cover eliminates the risk of glass splinter falling down (shatter protection)
- polycarbonate glass bowl with additional UV protective paint finish
- no special lamps with plastic protective coating required
- special paint finish for protection against aggressive cleaning agents and disinfectants available upon request.
- fulfils the requirements of IFS (International Food Standard) for lighting in areas of risk in food manufacture and processing
- a FSA certificate confirms the compliance to the IFS and the food hygiene regulations



3084/3085...



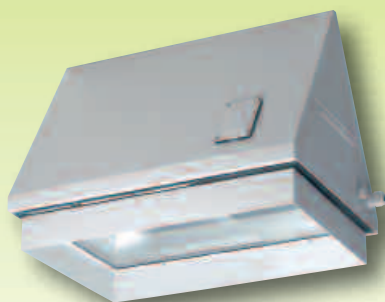
Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for ambient temperatures up to +40°C - high pressure lamps, socket E40			
3084/250 IFS	30843 0001	1 x HME 250	14,1
3084/400 IFS	30843 0003	1 x HME 400	14,9
3084/250 HI/HS IFS ³⁾	30843 0005	1 x HIE/HIT/HSE/HST 250	16,6
3084/400 HI IFS ³⁾	30843 0007	1 x HIE/HIT 400 ²⁾	17,5
3084/400 HS IFS ³⁾	30843 0009	1 x HSE/HST 400	17,5
for ambient temperatures up to +50°C - high pressure lamps, socket E40			
3085/250 IFS	30853 0001	1 x HME 250	14,1
3085/400 IFS	30853 0003	1 x HME 400	14,9
3085/250 HI/HS IFS ³⁾	30853 0005	1 x HIE/HIT/HSE/HST 250	16,6
3085/400 HI IFS ³⁾	30853 0007	1 x HIE/HIT 400 ²⁾	17,5
3085/400 HS IFS ³⁾	30853 0009	1 x HSE/HST 400	17,5

1) Uncomp., article no. for comp. see price list
 2) For OSRAM HQI-E/BT 400/D, PHILIPS MASTER HPI (-T) Plus 400 or equivalent. If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fittings for higher luminous flux.
 3) We recommend the use of ignitor with timer..
 4) Not suitable for 400W types
 5) Weights without packing material



3084 - 3086... Z

for areas with high levels of dirt and dust deposits



retrofitable!

Application:

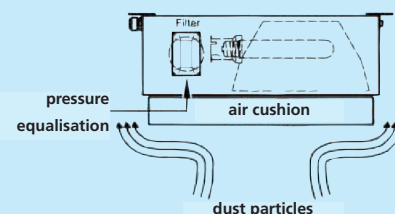
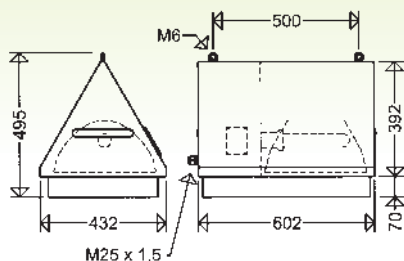
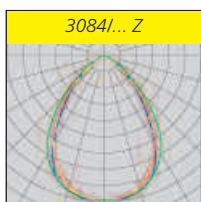
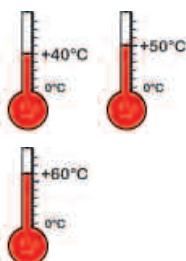
Areas with high dust and dirt deposit e.g. in the pulp and paper industries, brick, limestone and cement industries, plaster storage, refuse depots, rubbish sorting and thermal handling installations etc.

Design:

Same as 3084 - 3086... but including built-in self-cleaning particle filter for pressure equalisation as well as with painted sheet steel dust protection ring for protecting the light exit surface from dust deposits..

Advantages of the air flow system with particle filter:

- good pressure equalisation due to the built-in particle filter (allowing the luminaire to breathe freely when switching on/off)
- self cleaning particle filter to ensure protection against deposits of dust and dirt inside of the luminaire
- air flow system to reduction/prevention of contamination of the outer light exit surfaces (i.e. avoidance of any reduction of the illumination caused by any contamination)



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for ambient temperatures up to +40°C, high pressure lamps, socket E40			
3084/250 Z	30841 0001	1 x HME 250	15,6
3084/400 Z	30841 0003	1 x HME 400	16,5
3084/250 HI/HS Z ³⁾	30841 0005	1 x HIE/HSE/HIT/HST 250	17,2
3084/400 HI Z ³⁾	30841 0007	1 x HIE/HIT 400 ²⁾	18,8
3084/400 HS Z ³⁾	30841 0009	1 x HSE/HST 400	18,8
for ambient temperatures up to +50°C, high pressure lamps, socket E40			
3085/250 Z	30851 0001	1 x HME 250	15,6
3085/400 Z	30851 0003	1 x HME 400	16,5
3085/250 HI/HS Z ³⁾	30851 0005	1 x HIE/HSE/HIT/HST 250	17,2
3085/400 HI Z ³⁾	30851 0007	1 x HIE/HIT 400 ²⁾	18,8
3085/400 HS Z ³⁾	30851 0009	1 x HSE/HST 400	18,8
for ambient temperatures up to +60°C, high pressure lamps, socket E40			
3086/250 Z	30861 0001	1 x HME 250	15,6
3086/400 Z	30861 0003	1 x HME 400	16,5
3086/250 HI/HS Z ³⁾	30861 0005	1 x HIE/HSE/HIT/HST 250	17,2
3086/400 HI Z ³⁾	30861 0007	1 x HIE/HIT 400 ²⁾	18,8
3086/400 HS Z ³⁾	30861 0009	1 x HSE/HST 400	18,8

- 1) Uncomp., article no. for comp. see price list
2) For OSRAM HQI-E/BT 400/D, PHILIPS MASTER HPI (-T) Plus 400 or equivalent. If metal halide lamp to be used is suitable for operating with HS ballast please select HS light

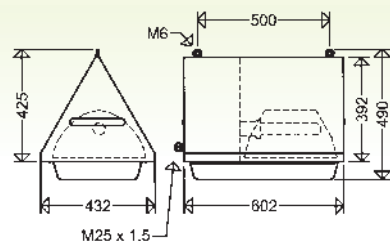
- fittings for higher luminous flux.
3) We recommend the use of ignitor with timer..
4) Not suitable for 400W types
5) Weights without packing material





3084... SSK

for sand blasting locations and cabins



Application:

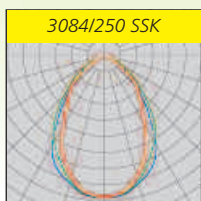
Rooms and cabins where sand and glass pearl etc. are used for the treatment of goods.

Design:

Same as 3084... but with easy to replace polycarbonate protective cover instead of safety glass window.

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ³⁾
for ambient temperatures up to +40°C - high pressure lamps, socket E40			
3084/250 SSK	30840 0201	1 x HME 250	14,2
3084/250 HI/HS SSK ²⁾	30840 0205	1 x HIE-P/HSE/HST 250 ³⁾	16,7

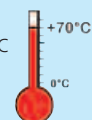
- 1) Uncomp., article no. for comp. see price list.
2) We recommend the use of ignitor with timer.
3) When using HIE lamps only use lamps with plastic protective covering
4) Weights without packing material



Further Series / Versions

- with emergency light circuit (SLS) to bypass ignition time for high pressure lamps
- with emergency light lamp holder E27 and separate terminal
- with stainless steel enclosure powder coated or glass pearl blasted
- with slightly structured safety glass window
- in Ex design for zone 2/22 (Series nD3084... see catalogue section "Ex-Lighting")
- with high pressure lamps Soffitten lamps with socket Fc2 lamp holders
- for higher ambient temperatures to +70°C

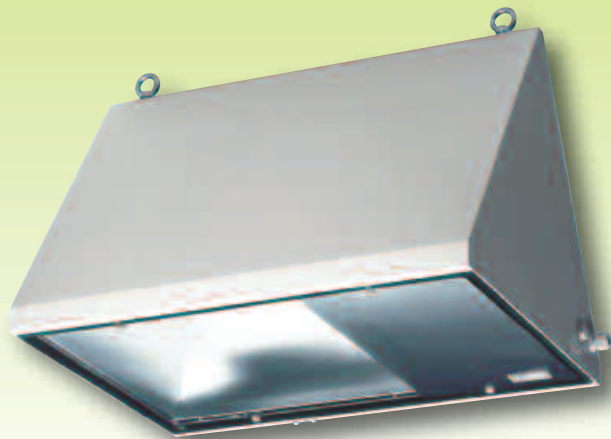
STAINLESS STEEL
corrosion resistant



Accessories / Spare Parts

Type	Article no.	
3070/010	90073 9000	glass window with clamp lock system (to March 2005)
3070/011	90073 9003	glass window for central locking system (from April 2005)
3070/020 SSK	90073 9001	polycarbonate protective cover for 3084... SSK (to March 2005)
3070/021 SSK	90073 9005	polycarbonate protective cover for 3084... SSK with central locking system (from April 2005)
3070/010 Z	90073 9002	safety glass window for 3084 - 3086... Z (to March 2005)
3070/013 Z	90073 9011	safety glass window for 3070... Z with central locking system (from April 2005)
3070/012 IFS	90073 9006	safety glass window for IFS design
3070/022 IFS	90073 9007	painted polycarbonate bowl for IFS design
3070/023 IFS	90073 9008	polycarbonate bowl and safety glass window assembly for IFS design
AF 02	90300 9002	spare filter for 3084 - 3086 Z (to June 2005)
AF 03	90300 9003	spare filter for 3084 - 3086 Z (from July 2005)
AF 04	90300 9004	spare filter in aluminium housing for 3086 Z (from July 2005)
2560	25600 9000	plastic cable gland M25 x 1,5
2572	25720 9000	plastic blanking plug M25 x 1,5
Safety light device		
... SLS	surcharge	incorporated safety light system with 1 x E27 lamp holder, but without lamp





Wide Area – Compact Flood Lights to 1000W Series 3094...

Application:

To illuminate large areas and high buildings or where a high illumination is required (e.g. harbours, airports, foundries, rolling and smelting works, machine shops and sorting halls etc.). Locations with excessive dirt and dust exposure as well as high fire risk etc.

Design:

Housing: Special triangular shaped, sheet steel or alternatively stainless steel, powder coated in light grey (RAL 7035). Including all control gear for 2 x 400W and fully internally wired for installation.
Glass: Hinged toughened safety glass

window without frame.

Central locking system: Positioned on opposite side to the hinges and operated by a 5mm Allen key.

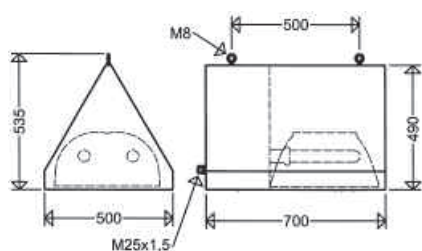
Reflector: Anodized mirror finish pure aluminium.

Electrical connection: Terminal block 4 or 3 x 4mm² in covered side compartment of the housing.

Cable entry: 1 plastic gland M25 x 1,5 and 1 plastic blanking plug M25 x 1,5 on the short side.

Mounting: 2 eye bolts M8.

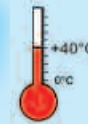
Ambient temperatures: +40°C max.



SCHUCH quality - your advantage:

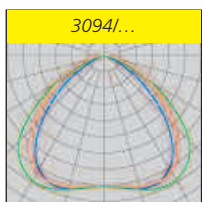
- robust industrial design for reliable long-term service
  - sheet steel housing (alternatively in stainless steel), high-grade powder coating for good corrosion resistance
  - 5mm thick, safety glass window without frame
  - sturdy central locking system with internal hinge
- easy installation and maintenance
  - easy connection and lamp change with original Schuch central locking system and hinged safety glass window
  - spacious lamp and terminal compartment, single-hand access
- optimized photometric high efficient reflector system made of high anodized pure aluminium

STAINLESS STEEL
corrosion resistant



3094...

narrow-wide beam



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for high pressure lamps, socket E40			
3094/250/2	30940 0008 ¹⁾	2 x HME 250	22,1
3094/400/2	30940 0010 ¹⁾	2 x HME 400	23,7
3094/250/2 HI/HS ⁴⁾	30940 0001 ¹⁾	2 x HIT/HST/HIE/HSE 250	26,5
3094/400/2 HI ⁴⁾	30940 0003 ¹⁾	2 x HIT/HIE 400 ²⁾	28,6
3094/400/2 HS ⁴⁾	30940 0005 ¹⁾	2 x HST/HSE 400	28,6
3094/600/2 HI/HS ZG	30940 0012	2 x HIT/HST 600 ³⁾	19,2
3094/1000 HI/HS ZG ⁴⁾	30940 0007	1 x HIT/HST 1000 ³⁾	18,2

1) Uncomp., art. nos. for comp. see price list

2) If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fitting for higher luminous flux

3) without ballast (ballast installed within separate enclosure 1032)

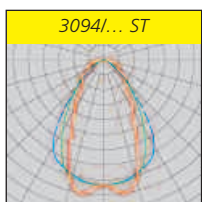
4) We recommend the use of ignitor with timer..

5) Weights without packing material

NEW

3094... ST

narrow beam mirror reflector for maximum light at high light point heights



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for high pressure lamps, socket E40			
3094/250/2 ST	30940 0108 ¹⁾	2 x HME 250	22,1
3094/400/2 ST	30940 0110 ¹⁾	2 x HME 400	23,7
3094/250/2 HI/HS ST ⁴⁾	30940 0101 ¹⁾	2 x HIT/HST/HIE/HSE 250	26,5
3094/400/2 HI ST ⁴⁾	30940 0103 ¹⁾	2 x HIT/HIE 400 ²⁾	28,6
3094/400/2 HS ST ⁴⁾	30940 0105 ¹⁾	2 x HST/HSE 400	28,6
3094/600/2 HI/HS ZG ST	30940 0112	2 x HIT/HST 600 ³⁾	19,2
3094/1000 HI/HS ZG ST ⁴⁾	30940 0107	1 x HIT/HST 1000 ³⁾	18,2

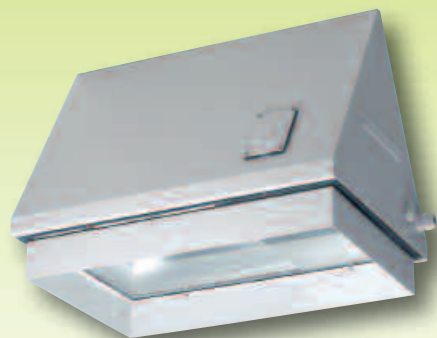
1) - 5) see series 3094...



NEW

3094... Z

for areas with high levels of dirt and dust deposits



retrofitable!

Applications:

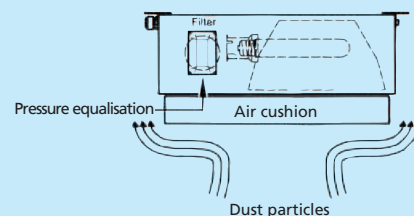
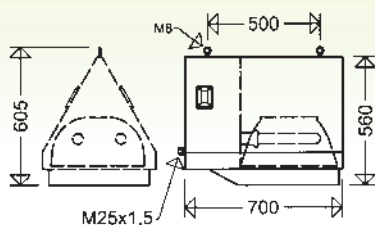
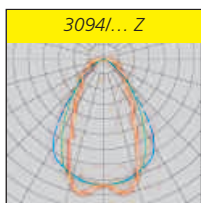
Areas with high dust and dirt deposit e.g. in the pulp and paper industries, brick, limestone and cement industries, plaster storage, etc.

Design:

Same as 3094... but including internal self-cleaning particle filter for pressure equalisation as well as with painted sheet steel dust protection ring for protecting the light exit surface from dust deposits (air flow system).

Advantages of the air flow system with particle filter

- good pressure equalisation due to the built-in particle filter (allowing the luminaire to breathe freely when switched on/off)
- self cleaning particle filter to ensure protection against deposits of dust and dirt inside of the luminaire
- air flow system to reduction/prevention of contamination of the outer light exit surfaces (i.e. avoidance of any reduction of the illumination caused by any contamination)
- decisive extension of the maintenance intervals (leads to noticeable cost reductions)



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for high pressure lamps, socket E40			
3094/250/2 Z	30940 0208 ¹⁾	2 x HME 250	22,1
3094/400/2 Z	30940 0210 ¹⁾	2 x HME 400	23,7
3094/250/2 HI/HS Z ⁴⁾	30940 0201 ¹⁾	2 x HIT/HST/HIE/HSE 250	26,5
3094/400/2 HI Z ⁴⁾	30940 0203 ¹⁾	2 x HIT/HIE 400 ²⁾	28,6
3094/400/2 HS Z ⁴⁾	30940 0205 ¹⁾	2 x HST/HSE 400	28,6
3094/600/2 HI/HS ZG Z	30940 0212	2 x HIT/HST 600 ³⁾	19,2
3094/1000 HI/HS ZG Z ⁴⁾	30940 0207	1 x HIT/HST 1000 ³⁾	18,2

1) - 5) see series 3094...



Industrial Light Fittings



Further Series / Versions

- with emergency light circuit (SLS) to bypass ignition time for high pressure lamps
- with emergency light lamp holder E27 and separate terminal
- with painted or glass pearl blasted stainless steel enclosure

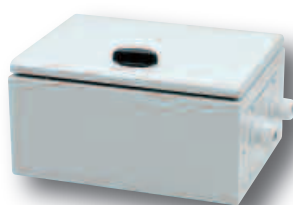
STAINLESS STEEL
corrosion resistant

- with slightly structured safety glass window
- for higher ambient temperatures to +70°C



Note:

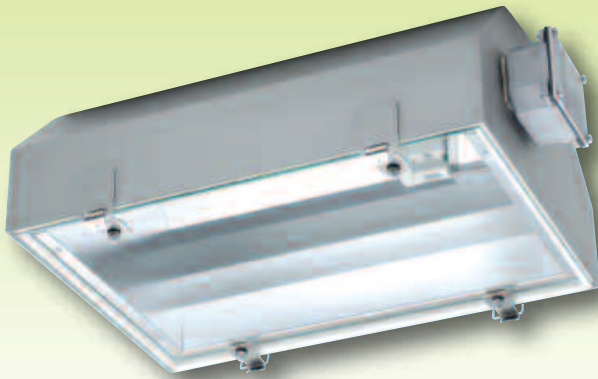
The ballast for the types 3094/600/2... and 3094/1000 is in a separate ballast enclosure (see outdoor light fittings!)



Accessories / Spare Parts

Type	Article No.	
1032/600/2 HI/HS	10320 0021 ¹⁾	ballast box with 2 VG HI/HS 600W
1032/1000 HI	10320 0013 ¹⁾	ballast box with VG HI 1000W
1032/1000 HS	10320 0015 ¹⁾	ballast box with VG HS 1000W
3170/010	90293 9000	spare safety glass
3170/010 Z	90293 9001	spare safety glass for 3094... Z
AF 04	90300 9004	spare filter, internal (aluminium housing) for 3086, 3094, 3170
2560	25600 9000	plastic cable gland M25 x 1.5
2572	25720 9000	plastic blanking plug M25 x 1.5

Compact Light Fitting for Extreme High Ambient Temperatures up to 100°C Series 3072/... H100



Application:

Climatic cabins, hot drying installations, extraction hoods for paper machines, paper dryers, foundries, coal fired power plants, rooms with very high ambient temperatures, lighting in the near ovens or hot air blowers.

Design:

Enclosure: Glass pearl blasted stainless steel, with silumin alloy connection box and silicon seals.

Glass: Hinged, detachable toughened safety glass window without frame, toggle clamps and safety spring

Reflector: Extreme wide beam, anodized

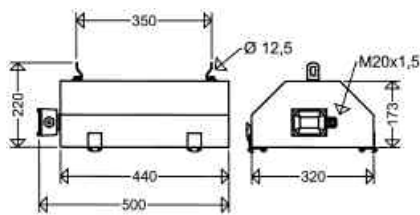
mirror finish pure aluminium.

Electrical connection: Terminal block 3 x 4mm² in the terminal housing mounted on the side.

Cable entries: 1 plastic cable gland M20 x 1.5 in terminal housing

Mounting: 2 x M5 stainless steel hooks.

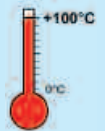
Ambient temperature: to max. 100°C



SCHUCH quality - your advantage:

- sturdy corrosion resistant stainless steel
- compact prism shaped design with maximum light surface
- extreme wide beam high power optic due to anodized mirror finish pure aluminium, for low level light-point and even illumination
- tool-free lamp change due to easy to operate self locking toggle clamps
- Multi-purpose in extreme temperatures up to +100°C (for higher temperatures on request)

STAINLESS STEEL
corrosion resistant



3072/... H100

extreme wide beam

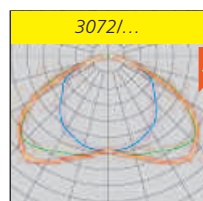


Type	Article no. ¹⁾	Lamps W	Weight ca. kg ¹⁾

for high pressure discharge lamps, socket E27

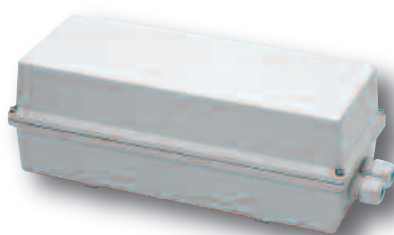
3072/125 H100	30720 0001	1 x HME 125	6,0
3072/70 HI H100	30720 0002	1 x HIT/HIE-CE 70	6,0

1) Weights without packing material



Further Series / Versions

- with ceiling rail 15A P for direct ceiling mounting
- for use with other lamps



Note:

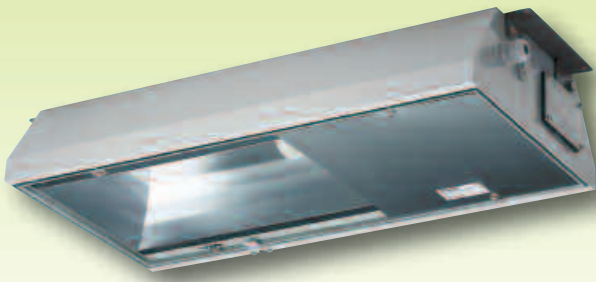
The separate ballast box Series 10150... with ballast and condenser inside must be installed outside of the hot temperature area.

The distance to the ballast box 10150/70HI PZ must not exceed 20m (see outdoor light fittings)

Accessories / Spare Parts

Type	Article no.	
Ballast enclosures		
10150/125 i	10150 0033	for HME 125, uncompensated
10150/125 k	10150 0034	for HME 125, compensated
10150/70HI PZ i	10150 0035	for HIT-CE 70, uncompensated
10150/70HI PZ k	10150 0036	for HIT-CE 70, compensated
Spare glass		
3071/010	90073 9010	safety glass window
Spare cable glands		
2541 MS	25410 9000	brass cable gland M20 x 1.5

Compact Light Fitting for Extreme Industrial Application Series 182... AF



Application:

Areas with high dust and dirt deposits, high ambient temperatures, high humidity and corrosive vapours (e.g.: pulp and paper industry, paper machines, plastics processing, etc.)

Design:

Housing: Light grey (RAL 7035) powder coated sheet aluminium, or alternatively in glass pearl blasted stainless steel, with integrated filter system against dust ingress and for pressure equalization.

Glass: Hinged, detachable toughened safety glass without frame and with covered control gear compartment.

Reflector: Anodized mirror finish pure aluminium, wide angle (SB) or narrow angle (ST).

Central locking system: 5mm Allen key.
Electrical connection: Terminal block 3 x 4mm² in covered side compartment of the housing.

Cable entries: 1 plastic gland M25 x 1.5 and 1 plastic blanking plug M25 x 1.5 on the short side.

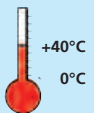
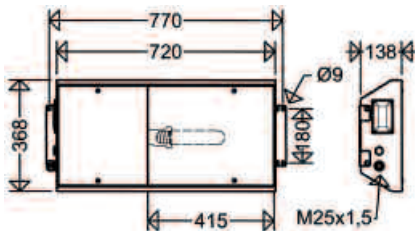
Mounting: Angle brackets on the sides for direct ceiling mounting (4 holes 9mm Ø) or suspension by means of chains or steel ropes with snap-hooks.

Ambient temperature: +40°C max.

SCHUCH Quality - your advantage:

- corrosion resistant and highest quality for reliable long-term service in difficult surroundings
  - high-grade powder coated, compact aluminium housing (alternatively in glass pearl blasted stainless steel)
  - sturdy central locking system with stainless steel hinge
  - toughened safety glass window without frame
  - for use in ambient temperatures up to +40°C
- especially economical due to its integrated filter system
  - cleans the air inside the light fitting necessary for the pressure equalization
  - reliably protects all internal parts of the light fitting against dirt and dust
  - thus avoids a reduction of the luminous intensity as a result of the accumulation of dust/dirt
- installation and maintenance friendly
  - Original SCHUCH-central locking system and hinged, detachable safety glass window for easy connection and lamp change
  - flexible mounting due to universal fixing bracket
  - quick and cost-efficient wiring in a light-band with loop-in/loop-out at one end (on request)

STAINLESS STEEL
corrosion resistant



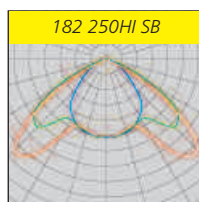
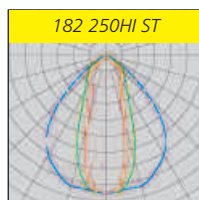
182 ... AF

IP65



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
wide beam			
182 250HI/HS SB AF ³⁾	18004 0001	1 x HIT/HST 250	15,5
182 400HI SB AF ^{2) 3)}	18004 0005	1 x HIT 400	16,5
182 400HS SB AF ³⁾	18004 0009	1 x HST 400	16,8
narrow beam			
182 250HI/HS ST AF ³⁾	18004 0003	1 x HIT/HST 250	15,5
182 400HI ST AF ^{2) 3)}	18004 0007	1 x HIT 400	16,5
182 400HS ST AF ³⁾	18004 0011	1 x HST 400	16,8

1) Uncompensated, see price list for Cat. No. for compensated versions.
2) For OSRAM HQI-BT 400/D. If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fittings for higher luminous flux
3) We recommend the use of ignitor with timer.
4) Weights without packing material



Further Series / Versions

- with emergency light circuit (SLS)
- with additional emergency light lamp holder E27
- with swivel arm
- with glass pearl blasted stainless steel housing

Accessories / Spare Parts

Type	Article no..	
18218-1	18090 9004	spare safety glass
AF 03	90300 9003	spare filter



Floodlight for Sand Blasting Areas and Cabins Series 7557... SSK



Application:
Areas and cabins where sand and glass pearls etc. are used for the treatment of goods.

Design:
Housing: Cast silumin alloy.
Reflector: Anodized mirror finish pure aluminium.
Glass: Toughened safety glass window cemented into a silumin alloy frame. The safety glass window is protected from damage and becoming dull from the blasting material by an easy replaceable polycarbonate protective cover fixed in a stainless steel frame.

Locking system: Stainless steel screwed hinges.

Electrical connection: Terminal block 3 x 4mm² inside junction box at the rear. Ballast is built in.

Cable entry: 1 cable gland M25 x 1.5

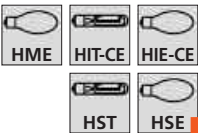
Mounting system: Aluminium stirrup with 3 holes, Ø 11mm, swivelling range: 150°.

Ambient temperature: +30°C max.

7557... SSK

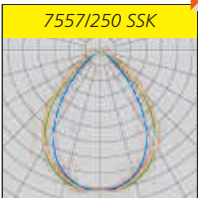
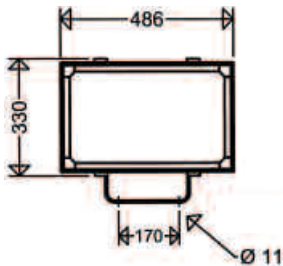
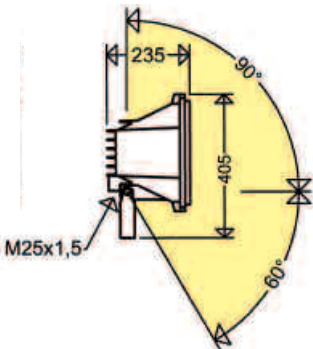


with additional polycarbonate protective cover



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
for 1 high pressure lamp, socket E40			
7557/250 SSK	75573 0001	1 x HME 250	12,3
7557/150 HI/HS SSK	75573 0002	1 x HIT/HIE-CE/HST/HSE 150	11,6

1) Weight without packing material



Swivel range: 150°

Accessories / Spare Parts

Type	Article no.	
7540 SSK	74500 9000	spare polycarbonate protective cover without frame
7538	75380 9000	spare toughened safety glass without frame

Universal Industrial Polyester Light Fitting Series 3021/31 - 3022/32



Application:

Production halls, industrial warehouses, chemical workshops, humid and dusty ambient conditions, halls of power stations and exhibition halls, high ceiling laboratories, breweries, etc.

Design:

Housing: Lamp and ballast housings made of glass fibre reinforced polyester. The control gear is mounted on an easily removable metal plate.

Reflector: Anodized mirror finish pure aluminium.

Glass: Hinged, detachable toughened safety glass window cast aluminium

frame, with stainless steel hinges.

Electrical Connection: 3-pole connection terminal up to 4mm² inside the ballast housing.

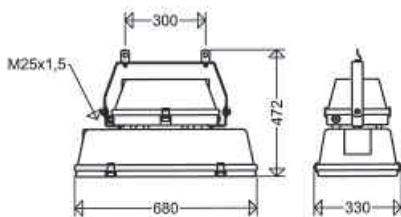
Cable entry: 1 plastic gland M25 x 1,5 and 1 plastic blanking plug in ballast housing.

Mounting system: 1 galvanized steel stirrup with 2 stainless steel eye hooks. For direct ceiling or wall mounting remove the eye hooks.

Ambient temperature: +30°C max.

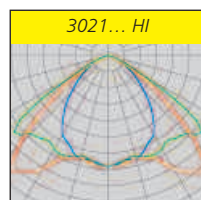
SCHUCH quality - Your advantage:

- robust, highly chemical resistant polyester enclosure for use in difficult ambient conditions
- installation and maintenance friendly
  - tool free connection due to hinged ballast enclosure cover with stainless steel clamps
  - tool free lamp change due to stainless steel hinged aluminium framed toughened safety glass window
  - removable compact control gear holder with all electrical components
- photometric optimized high anodized pure aluminium reflect system
- many product variations and special designs to solve most difficult applications



3021...

wide beam



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure lamps, socket E40			
3021/250 HI/HS ³⁾	30210 0016	1 x HIT/HST 250	18,2
3021/400 HI ³⁾	30210 0011	1 x HIT 400 ²⁾	19,8
3021/400 HS ³⁾	30210 0009	1 x HST 400	19,8
3021/600 HS ³⁾	30210 0003	1 x HST 600	21,0
for high pressure lamps, socket Fc2			
3021/250 HI-TS ³⁾	30210 0028	1 x HIT-DE 250	18,2
3021/400 HI-TS ³⁾	30210 0024	1 x HIT-DE 400 ²⁾	19,8
3021/250 HS-TS ³⁾	30210 0032	1 x HST-DE 250	18,2
3021/400 HS-TS ³⁾	30210 0022	1 x HST-DE 400	19,8

1) Uncompensated, see price list for Article Nos. for compensated version

2) For OSRAM HQI-E/BT 400/D, or HQI-TS 400/D
If metal halide lamp to be used is suitable

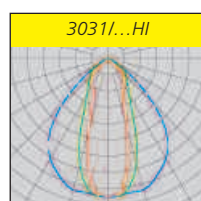
for operating with HS ballast please select HS light fittings for higher luminous flux

3) We recommend the use of ignitor with timer..

4) Weights without packing material

3031...

narrow beam



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
for high pressure lamps, socket E40			
3031/250 HI/HS ³⁾	30310 0016	1 x HIT/HST 250	18,2
3031/400 HI ³⁾	30310 0011	1 x HIT 400 ²⁾	19,8
3031/400 HS ³⁾	30310 0009	1 x HST 400	19,8
3031/600 HS ³⁾	30310 0003	1 x HST 600	21,0
for high pressure lamps, socket Fc2			
3031/250 HI-TS ³⁾	30310 0028	1 x HIT-DE 250	18,2
3031/400 HI-TS ³⁾	30310 0024	1 x HIT-DE 400 ²⁾	18,5
3031/250 HS-TS ³⁾	30310 0032	1 x HST-DE 250	18,2
3031/400 HS-TS ³⁾	30310 0022	1 x HST-DE 400	18,5

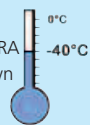
1) - 4) see 3021...

Advantages of the Induction-type lamp system:

- Ideal for difficult to reach areas or with long maintenance periods
- Extremely long working life (up to 60.000 hours, see manufacturers data)
- flicker-free, instant start < 0.1 sec., suitable for emergency applications
- instant restart with almost full light output
- constant high luminous flux (12 000lm) over a wide range of mains voltage, suitable for DC
- low ignition temperature and constant high luminous flux over a wide temperature range, suitable for outdoor and low temperature applications
- lamp can be mounted at any angle; when mounted vertical or inclined, connection to face downwards
- maintenance-free

Note:

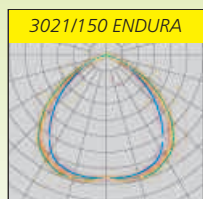
The compact flood light 3021/150 ENDURA is suitable for use at temperatures down to -40°C.



3021... ENDURA

with induction lighting system „ENDURA“

IP54



Application:

In difficult to reach places where a lamp replacement would be time consuming and quite costly or if generally long maintenance intervals are wanted for cost saving. For cold storage or refrigerated rooms for

temperatures down to -30°C or -40°C, or covered areas generally outdoors.

Design:

As 3021... - but with electronic operating system (EVG) and with induction-type lamp.

Type	Article no.	Lamps W	Weight ca. kg ¹⁾
with induction-type lamp and EVG			
3021/150 ENDURA	30210 0042	1 x LMT 150	14,4

1) Weights without packing material



3021/3031... FF

for locations with increased fire risk

IP54



Application:

Halls with increased fire risk due to deposits of combustible dusts and fibres

e.g. as stipulated in VDE 0100 Part 482

Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾

wide beam for high pressure discharge lamps, socket E40

3021/250 HI/HS FF ³⁾	30211 0001	1 x HIT/HST 250	18,4
3021/400 HI FF ³⁾	30211 0003	1 x HIT 400 ²⁾	20,0
3021/400 HS FF ³⁾	30211 0005	1 x HST 400	20,0

wide beam for high pressure discharge lamps, socket Fc2

3021/250 HI-TS FF ³⁾	30211 0007	1 x HIT-DE 250	18,4
3021/400 HI-TS FF ³⁾	30211 0009	1 x HIT-DE 400 ²⁾	20,0
3021/250 HS-TS FF ³⁾	30211 0011	1 x HST-DE 250	18,4
3021/400 HS-TS FF ³⁾	30211 0013	1 x HST-DE 400	20,0

narrow beam for high pressure discharge lamps, socket E40

3031/250 HI/HS FF ³⁾	30311 0001	1 x HIT/HST 250	18,4
3031/400 HI FF ³⁾	30311 0003	1 x HIT 400 ²⁾	20,0
3031/400 HS FF ³⁾	30311 0005	1 x HST 400	20,0

narrow beam for high pressure discharge lamps, socket Fc2

3031/250 HI-TS FF ³⁾	30311 0007	1 x HIT-DE 250	18,4
3031/400 HI-TS FF ³⁾	30311 0009	1 x HIT-DE 400 ²⁾	20,0
3031/250 HS-TS FF ³⁾	30311 0011	1 x HST-DE 250	18,4
3031/400 HS-TS FF ³⁾	30311 0013	1 x HST-DE 400	20,0

1) Uncompensated, see price list for Cat. Nos. for compensated version

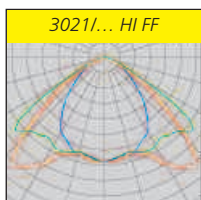
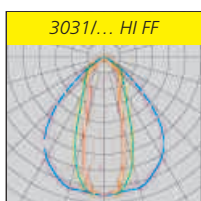
2) For OSRAM HQI-T 400/D, HQI-TS 400/D or PHILIPS Master HPI-T 400 or equivalent.

If metal halide lamp to be used is suitable

for operating with HS ballast please select HS light fittings for higher luminous flux

3) We recommend the use of ignitor with timer..

4) Weights without packing material



3021/3031... AF



for areas with high levels of dirt and dust deposits

Application:

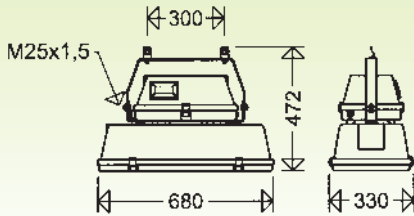
Areas with high dust and dirt deposit e.g. in the limestone and cement industries, plaster storage, chipboard and paper industries, etc.

Design:

Same as 3021/3031... but including particle filter for pressure equalisation of the air within the light fitting.

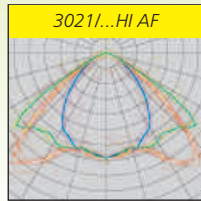
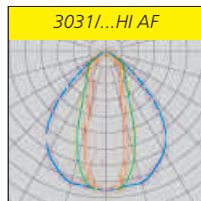


Series 3021/3031... AF



Economics and safety with the breather filter

- cleans the air needed for the pressure equalization within the light fitting equalisation
- protects all internal parts within the light fitting against dirt and dust deposits
- prevents of any reduction of the illumination caused by contamination



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
wide beam for high pressure discharge lamps, socket E40			
3021/250HI/HS AF ³⁾	30210 0116	1 x HIT/HST 250	18,2
3021/400HI AF ³⁾	30210 0111	1 x HIT 400 ²⁾	19,8
3021/400HS AF ³⁾	30210 0109	1 x HST 400	19,8
wide beam for high pressure discharge lamps, socket Fc2			
3021/250 HI-TS AF ³⁾	30210 0126	1 x HIT-DE 250	18,2
3021/400 HI-TS AF ³⁾	30210 0124	1 x HIT-DE 400 ²⁾	19,8
3021/250 HS-TS AF ³⁾	30210 0128	1 x HST-DE 250	18,2
3021/400 HS-TS AF ³⁾	30210 0122	1 x HST-DE 400	19,8
narrow beam for high pressure discharge lamps, socket E40			
3031/250 HI/HS AF ³⁾	30310 0116	1 x HIT/HST 250	18,2
3031/400 HI AF ³⁾	30310 0111	1 x HIT 400 ²⁾	19,8
3031/400 HS AF ³⁾	30310 0109	1 x HST 400	19,8
narrow beam for high pressure discharge lamps, socket Fc2			
3031/250 HI-TS AF ³⁾	30310 0126	1 x HIT-DE 250	18,2
3031/400 HI-TS AF ³⁾	30310 0124	1 x HIT-DE 400 ²⁾	19,8
3031/250 HS-TS AF ³⁾	30310 0128	1 x HST-DE 250	18,2
3031/400 HS-TS AF ³⁾	30310 0122	1 x HST-DE 400	19,8

1) Uncompensated, see price list for Cat. Nos. for compensated version

2) For OSRAM HQI-T 400/D or HQI-TS 400/D or equivalent. If metal halide lamp to be used is suitable for operating with HS

ballast please select HS light fittings for higher luminous flux

3) Ignitor with timer see technical supplement "Electro technology/ignitors"

4) Weights without packing material



3021/3031... V



for use in galvanising plants

Application:

Especially developed design for use in galvanising plants.

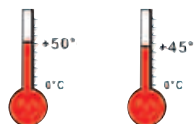
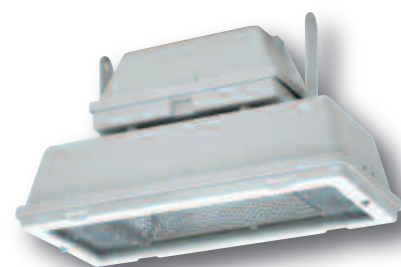
Design:

As standard type but with screw mounted glass window and control gear en-

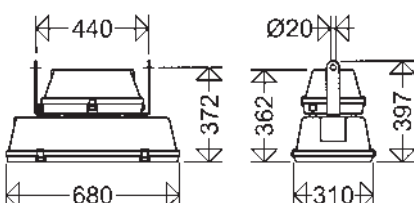
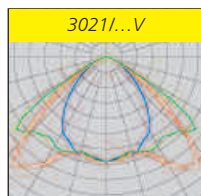
closure cover, as well as painted mounting stirrup.

Ambient temperature:

+50°C max. (250W) or
+45°C max. (400W).



Series 3021/3031... AF



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
wide beam for high pressure discharge lamps, socket E40			
3021/250 HI/HS V ³⁾	30213 0021	1 x HIT/HST 250	18,0
3021/400 HS V ³⁾	30213 0023	1 x HST 400 ²⁾	19,6
narrow beam for high pressure discharge lamps, socket E40			
3031/250 HI/HS V ³⁾	30313 0021	1 x HIT/HST 250	18,1
3031/400 HS V ³⁾	30313 0023	1 x HST 400 ²⁾	18,4

1) - 4) see 3021/...AF

3021/3031... K



for areas with particularly aggressive environmental conditions

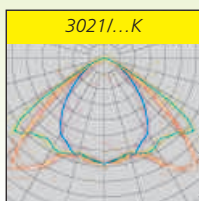
Application:

Especially developed design for fermentation installations, rotting halls, rubbish sorting and recycling centres, and others with very aggressive environmental con-

ditions.

Design:

As standard type but with stainless steel mounting stirrup, screws etc.



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾
wide beam for high pressure discharge lamps, socket E40			
3021/250 HI/HS K ³⁾	30213 0031	1 x HIT/HST 250	18,0
3021/400 HS K ³⁾	30213 0033	1 x HST 400 ²⁾	19,6
narrow beam for high pressure discharge lamps, socket E40			
3031/250 HI/HS K ³⁾	30313 0031	1 x HIT/HST 250	18,1
3031/400 HS K ³⁾	30313 0033	1 x HST 400 ²⁾	18,4

1) - 4) see 3021/...AF



Industrial Light Fittings



Further Series / Versions

- with emergency light circuit (design ...SLS) to bypass ignition time for high pressure lamps (not for FF series)
- with instant re-strike (Series 3022/3032)
- with vibration-absorbing suspension
- with special mounting stirrup for hanging light fitting on chains
- with hard coated aluminium window frame for use in aggressive ambient conditions
- for higher ambient temperatures > +30°C

Accessories / Spare Parts

Type	Article no.	
Spare glass covers		
3031/001	90074 9000	without frame
3031/010	90042 9000	with frame
3031/010 V	90042 9001	with frame for V-version (screwed version)
Filter		
AF 03	90300 9003	breather filter for pressure equalization
Safety light system		
SLS	surcharge	incorporated safety light system with 1 x E27 lamp holder, but without lamp

Ceiling and Wall Mounting Light Fittings Series 3691/3692... A



Application:

In areas with extreme operating conditions and increased mechanical stress and locations requiring a high degree of protection against damage.

Design:

Housing: Die cast aluminium

Cover: Clear thermal resistant glass

Wire Guard: Galvanized steel wire (OSK = without wire guard)

Cable glands/Connection terminals

3691 with connection chamber:

2 entries M25 x 1.5; 3-pole terminal block max. 4,0mm².

3692: without connection chamber:

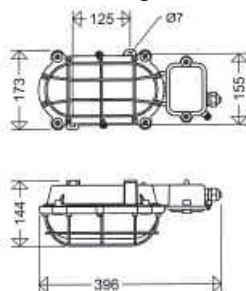
2 entries M20 x 1.5

Mounting: 2 integral fixing lugs for wall or ceiling mounting.

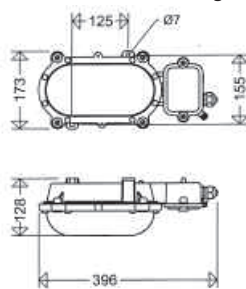
Note:

Cable glands are not included in the scope of delivery.
Please order separately (See accessories).

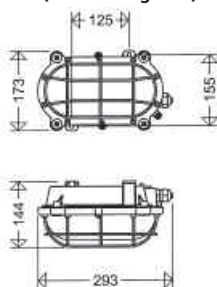
Series 3691 A (with wire guard)



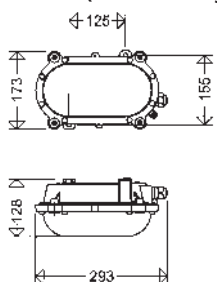
Series 3691 A OSK (without wire guard)



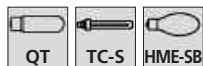
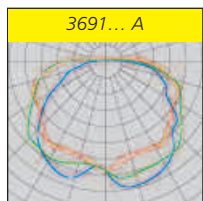
Series 3692 A (with wire guard)



Series 3692 A OSK (without wire guard)



3691... A



Type	Article no.	Lamps W	Cable entries	Weight ca. kg ¹⁾

for tungsten halogen lamps, socket E27

3691 A	36910 0020	1 x QT32 max.100	2 entries M25 x 1.5	2,4
3691 A OSK	36910 0120	1 x QT32 max.100	2 entries M25 x 1.5	2,2

3691/109 KL A	36910 0021	1 x TC-S 9	2 entries M25 x 1.5	2,7
3691/209 KL A	36910 0022	2 x TC-S 9	2 entries M25 x 1.5	2,7
3691/109 KL A OSK	36910 0121	1 x TC-S 9	2 entries M25 x 1.5	2,5
3691/209 KL A OSK	36910 0122	2 x TC-S 9	2 entries M25 x 1.5	2,5

1) Weights without packing material

3692... A



Type	Article no.	Lamps W	Cable entries	Weight ca. kg ¹⁾

for tungsten halogen lamps, socket E27

3692 A	36920 0020	1 x QT32 max.100	2 entries M20 x 1.5	2,1
3692 A OSK	36920 0120	1 x QT32 max.100	2 entries M20 x 1.5	1,9

1) Weights without packing material



Further Series / Versions

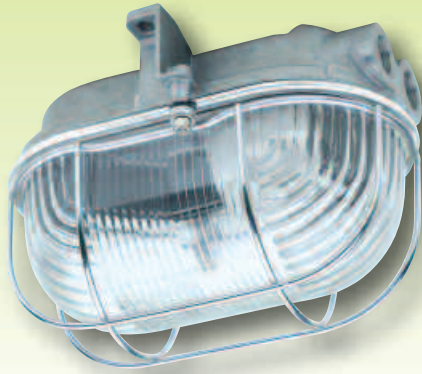
– for higher ambient temperatures > +25°C

– for blended lamps HME-SB 160

Accessories / Spare Parts

Type	Article no.	
2693 tw ATEX	26930 9003	spare glass, clear
SK 693 A	69300 9001	spare wire guard
Cable glands for 3691 A		
2560	25600 9000	plastic gland M25 x 1.5
2572	25720 9000	threaded plastic blanking plug M25 x 1.5
2540 MS	25400 9000	brass gland M25 x 1.5
2570 MS	25700 9000	threaded brass blanking plug M25 x 1.5
Cable glands for 3692 A		
2561	25610 9000	plastic gland M20 x 1.5
2573	25730 9000	threaded plastic blanking plug M20 x 1.5
2541 MS	25410 9000	brass gland M20 x 1.5
2571 MS	25710 9000	threaded brass blanking plug M20 x 1.5

Ceiling and Wall Mounting Light Fittings Series 3610...



Applications:

In areas with extreme operating conditions and increased mechanical stress and locations requiring a high degree of protection against damage.

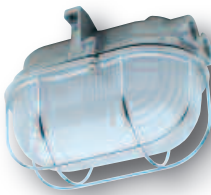
Design:

Cast aluminium housing, unpainted, passivated wire guard, silicate glass bowl with internal prism structure, 2 cable entries M20 x 1.5

Mounting system: 2 integral fixing lugs for wall or ceiling mounting.

Ambient temperature: +25°C max.

Note: Cable glands are not included in the scope of delivery. (Plastic cable glands, from 70W brass cable glands!) Please order separately (See accessories).



3610... LED with high-powered LED



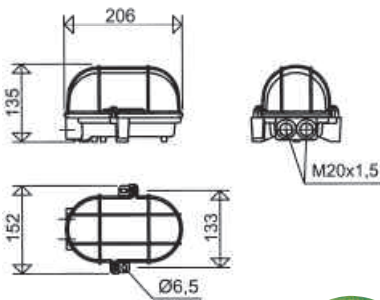
Applications:

In areas with extreme operating conditions, wind energy installations, escape routes with low level light point, areas that are difficult to access and signalling

applications.

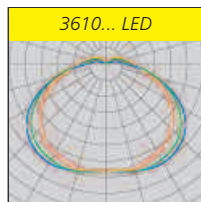
Design:

As standard design but with frosted silicate glass and high power white LED, 6.500K, 1W.



Advantages of the LED design:

- up to 91% energy savings in comparison to an 40W fluorescent lamp
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, Ta=25°C)s
- low maintenance costs due to long maintenance intervals
- immediate full light output, even at low temperatures
- suitable for high operating cycles
- high resistance to vibration and shock
- earthquake-proof (TÜV certified)
- with coloured LED, especially suitable for signalling applications

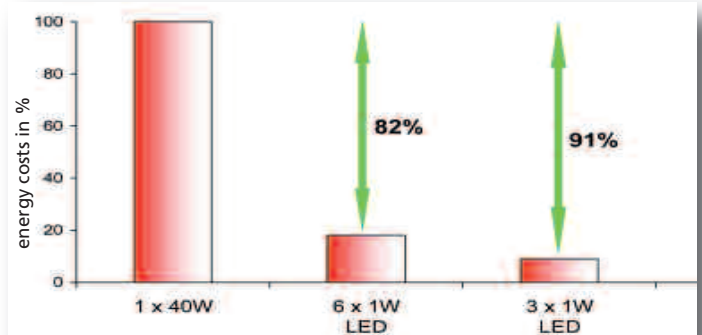
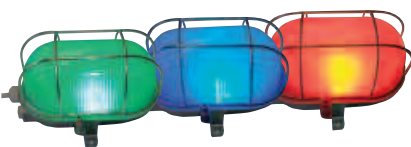


Type	Article no.	Qty. LED	Power consumption	Weight ca. kg ¹⁾
3610/301 LED VS	36100 0021	3 x 1 W	3,6W	1,2
3610/601 LED VS	36100 0022	6 x 1 W	7,2W	1,6

1) Weights without packing material.

Energy cost savings

with use of LED Series 3610...
in comparison to an 40W fluorescent lamp



3610... with coloured LED for signalling applications

Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.



Ceiling / Wall mounting light fitting up to 100W



Type	Article no.	Lamps W	Cable entries	Weight ca. kg ²⁾
for tungsten halogen lamps, socket E27¹⁾				
3610	36100 0007	1 x QT32 max.100	2 entries M20 x 1.5	1,2
for compact lamp up to 18W, socket G23 or G 24d				
3610/7 KL	36100 0009	1 x TC-S 7	2 entries M20 x 1.5	1,6
3610/10/13 KL	36100 0010	1 x TC-D 10/13	2 entries M20 x 1.5	1,6
3610/18 KL	36100 0012	1 x TC-D 18	2 entries M20 x 1.5	1,6

1) Plastic cable glands, brass glands from 70W to be ordered separately (see

accessories/spare parts)

2) Weights without packing material.



Further Series / Versions

- for higher ambient temperatures >+25°C
- with B22 lamp holder
- with hot-dipped galvanized wire guard
- in silicone-free design

Accessories / Spare Parts

Type	Article no.	
1595	90075 9000	spare glass
1595 SATINIERT	90075 9002	spare glass (frosted)
3610 K	36101 9000	spare wire guard
596	59600 9000	spare gasket
Cable glands M20 x 1.5		
2561	25610 9000	plastic gland M20 x 1.5
2573	25730 9000	plastic threaded blanking plug M20 x 1.5
2541 MS	25410 9000	brass gland M20 x 1.5 (from 70W)
2571 MS	25710 9000	brass threaded blanking plug M20 x 1.5 (from 70W)

Modern Polyester Outdoor Light Fitting With Multi-purpose Mounting System Series 46...



Applications:

Service roads, through and collecting roads, walkways, cycle ways, traffic-calmed areas, small squares, bridges, industrial plants, car parks...

Design:

Housing: Glass fibre reinforced polyester resin with UV resistant coating, integrated pressure compensation system.

Diffuser: Impact and temperature resistant acrylic glass (PMMA), HI-, CE- and CPO-types polycarbonate (PC), with inserted UV stabilized profile gasket (EPDM), hingeable and detachable.

Fasteners: Stainless steel

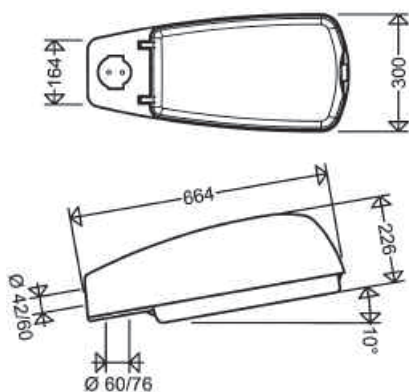
Mirror reflector: Optimized system made from surface refined purest aluminium.

Gear tray: Glass fibre reinforced polyester carrying all electrical components, removable without any tools. Plug/lamp holder connection to mains connection terminal. Cable retainer for connection conductor.

Mounting system: Universal pole mounting system made from diecast aluminium for pole top and side entry mounting. Pole end Ø of 60mm and 76mm (inclination: 10°). Supporting section: 42Ø x 100mm or 60Ø x 100mm.



Gear tray carrying all electrical components, removable without any tools.



SCHUCH Quality – your advantage:

- **Product of an excellent quality, well known on the market thanks to its reliable long-term application**
  - durable housing made from glass fibre reinforced polyester resin with UV resistant coating, special colours available
  - impact resistant, hinged PMMA cover, hinges covered and located inside the pole mounting section that is made from diecast alumin (no springs)
  - UV resistant profile gasket deep-set in the glass cover, thus, protected against climatic influences
  - locking clamp made from stainless steel
  - stable diecast aluminium pole mounting system
  - gear section and lamp compartment are covered by the glass cover; the closed gasket system ensures a durable IP protection. It steadily avoids vermin penetration and, thus, service intervals are getting longer
  - integrated venting system that ensures a definite breathing procedure to avoid any formation of condensation water
  - permanent insulation class II protection thanks to a polyester gear tray and polyester housing (any regular security check not required)
- **universal application thanks to a flexible pole mounting system (pole end Ø up to 76mm)**
  - for a pole arm end Ø of 42 and 60 mm
  - for a post top end Ø of 60 and 76 mm
  - no additional adaptors required
- **extremely easy to install and to maintain, no tools required for maintenance**
  - turn able pole mounting system for quick post top or side entry mounting – no tools required
  - for direct access to the lamp compartment you just swing down and unhinge the glass bowl (one-hand operation/no tools required).

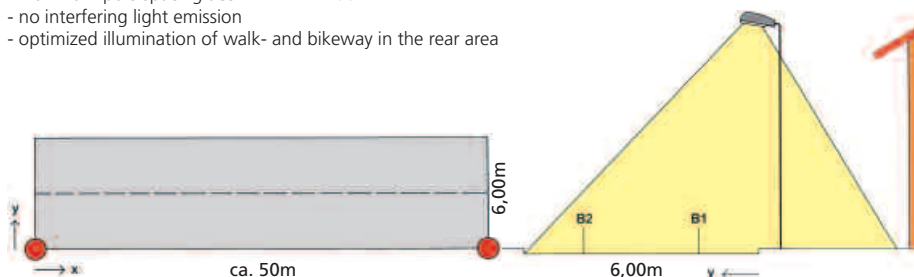
Result: Quick electrical connection/ (plug-type system); quick lamp replacement;

  - removable (without any tools) compact electro kit with all electrical parts including lampholder. Thus, any conversion to other lamp types, lamp outputs or to other versions is easily possible.
- **very economical thanks to a most effective light distribution system**
  - suitable for modern, energy-efficient lamp control gear systems
  - highly efficient mirror reflector system, light technically optimized for large pole distances
  - excellent glare limitation (class KB1)
- **energy efficient and non-polluting**
  - design meeting the European standards 2005/32 EG (EUP standard)
  - insect friendly due to low profile glass bowl when applying CosmoPolis or other sodium vapour lamps.

permanent
SKII - safety

Optimized optics for pole spacing of up to 50m

- maximum pole spacing acc. DIN EN 12193
- no interfering light emission
- optimized illumination of walk- and bikeway in the rear area

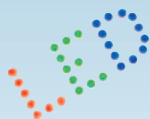


NEW

46... LED

with high power LED

IP65		LPH 4-6m	Wind load area A = 0,11m ²



Application:

Service roads, through and collecting roads, walkways, cycle tracks, traffic-calmed areas, small squares, bridges, industrial plants, car parks, etc.

Design:

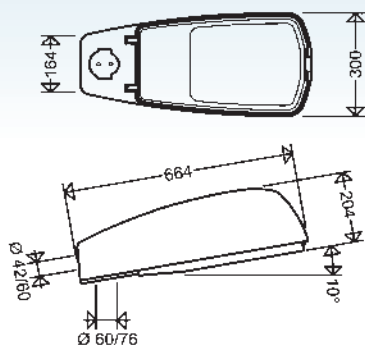
As standard design, but with flat acrylic glass in an aluminium frame.

Gear tray/heat sink: With all electrical components.

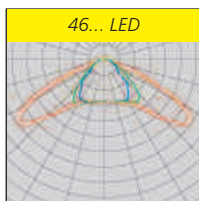
LED: 30 OSRAM high power LED 1W, integrated optic with Batwing characteristics, colour temperature 5.000K.

Advantages of LED-version

- energy efficient solution for light point height of 5 to 6m
- light point distances up to 36m, for standard lighting acc. to luminance class S4/S5
- up to 56% energy savings in comparison to an 80W mercury-vapour lamp with the same light intensity and light point distance
- optimum light distribution using LED integrated optic with Batwing characteristics
- immediate full light output even at low temperatures
- additional energy savings in night-time operation with power reduction (dimmer) via control circuit (50% luminous flux with only 45% power consumption)
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, Ta=25°C)
- low maintenance costs due to long maintenance intervals
- future orientated with easy interchangeable gear-tray
- resistant against shocks and vibrations
- ideal for frequent operating cycles



Type	Article no.	Qty. LED W	Power consumption	Weight ca. kg ¹⁾
46 3001 LED	46000 0270	30 x 1W	41W	8,8



Note:

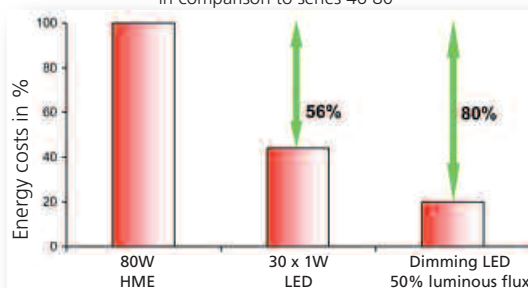
The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

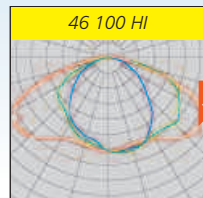
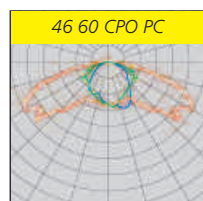
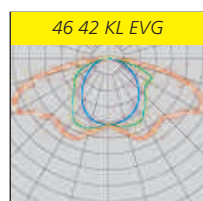
Guarantee claims based on this data are excluded.

Energy cost savings

with use of LED type 46 3001 LED
in comparison to series 46 80



Outdoor Light fittings



Type	Article no.	Lamps W	Weight ca. kg ⁹⁾
for high pressure lamps, socket E27 or E40			
46 50/80 ³⁾	46000 0001 ¹⁾	1 x HME 50 / 80	6,1
46 80/125 ³⁾	46000 0003 ¹⁾	1 x HME 80 / 125	6,4
46 70 HI E27 ⁸⁾	46000 0064 ¹⁾	1 x HIE 70	6,5
46 100 HI E27 ⁸⁾	46000 0066 ¹⁾	1 x HIE 100	6,5
46 150 HI E27 ⁸⁾	46000 0068 ¹⁾	1 x HIE 150	7,2
46 35 HS ⁸⁾	46000 0016 ¹⁾	1 x HST/HSE 35	6,5
46 50/70 HS ^{3) 8)}	46000 0005 ¹⁾	1 x HST/HSE 50/70	6,5
46 50/70 HS-I ^{2) 3)}	46000 0007 ¹⁾	1 x HSE-I 50/70	6,4
46 100 HS ⁸⁾	46000 0009 ¹⁾	1 x HST/HSE 100	6,6
46 150 HS ⁸⁾	46000 0011 ¹⁾	1 x HST/HSE 150	7,3
for ceramic burner lamps, socket E27 or E40			
46 35 CE E27 ^{4) 7)}	46000 0034 ¹⁾	1 x HIE-CE/P 35	6,5
46 50/70 CE E27 ^{4) 7)}	46000 0022 ¹⁾	1 x HIT/HIE-CE/P 50/70	6,5
46 100 CE E27 ^{4) 9)}	46000 0026 ¹⁾	1 x HIT/HIE-CE/P 100	6,5
46 150 CE E27 ^{4) 9)}	46000 0041 ¹⁾	1 x HIT/HIE-CE/P 150	7,2
for high pressure CosmoPolis white, electronic ballast, socket PG Z12			
46 45 CPO	46000 0018	1 x HIT-CEod 45	6,2
46 60 CPO	46000 0019	1 x HIT-CEod 60	6,2
46 90 CPO	46000 0020	1 x HIT-CEod 90	6,2
for compact fluorescent lamps, socket GX24q-4			
46 218 KL EVG	46000 0021	2 x TC-L 18	5,0
46 42 KL EVG	46000 0062	1 x TC-TEL 42	5,0
for low pressure lamps, socket BY22d			
46 18 NA k ⁶⁾	46000 0013	1 x LST 18 W	6,0

1) Uncomp., art.nos. for comp. see price list

2) For SON lamps with their internal ignitors

3) Reversible ballast

4) Includes timer-ignitor

5) Lamp holder with "Anti-vandal protection"

6) With capacitor

7) Available also for CDM-T and HCI-T lamps with lamp holder G12

8) We recommend the use of ballasts with timer.

9) Weights without packing material

= suitable for insect protection

46... LR

with light output reduction device

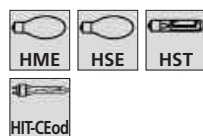
Design:

Same as standard design, but with output reduction via control phase.

Switching logic: Control phase off, output reduction active.

Available on request:

- Output reduction system with digital module for automatic switchover without control phase
- Light fitting with EVG for output reduction for ceramic burner lamps with or without control phase



Type	Article no.	Lamps W	Weight ca. kg ³⁾
for high pressure lamps, socket E27 or E40			
46 80 LR	46000 0053 ¹⁾	1 x HME 80 → 50	6,2
46 125 LR	46000 0055 ¹⁾	1 x HME 125 → 80	6,5
46 50 HS LR ²⁾	46000 0059 ¹⁾	1 x HST/HSE 50 → 35	6,6
46 70 HS LR ²⁾	46000 0057 ¹⁾	1 x HST/HSE 70 → 50	6,6
46 100 HS LR ²⁾	46000 0039 ¹⁾	1 x HST/HSE 100 → 70	6,7
46 150 HS LR ²⁾	46000 0051 ¹⁾	1 x HST/HSE 150 → 110	7,4
for high pressure CosmoPolis white, electronic ballast, socket PG Z12			
46 60 CPO LR	46000 0070	1 x HIT-CEod 60 → 36	6,2
46 90 CPO LR	46000 0071	1 x HIT-CEod 90 → 54	6,2

1) Uncomp., art.nos. for comp. see price list

2) We recommend the use of ballasts with timer.

3) Weights without packing material

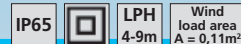
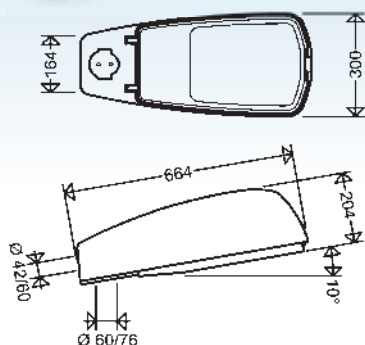
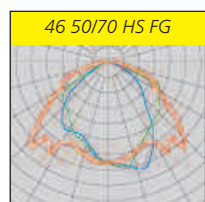
= suitable for insect protection



NEW

46... FG

with flat safety glass



Application:

Same as standard design, specially for railway platforms, railway sidings, locks, for object protection etc.

Design: Same as standard design, but with flat safety glass in an aluminium frame (FG), hinged and detachable, with inlay non-ageing and UV stabilized profile gasket (EPDM).

Type	Article no.	Lamps W	Weight ca. kg ⁷⁾
for high pressure lamps, socket E27 or E40			
46 50/80 FG ³⁾	46000 0201 ¹⁾	1 x HME 50 / 80	7,3
46 80/125 FG ³⁾	46000 0203 ¹⁾	1 x HME 80 / 125	7,6
46 70 HI E27 FG ⁸⁾	46000 0264 ¹⁾	1 x HIE 70	7,7
46 100 HI E27 FG ⁸⁾	46000 0266 ¹⁾	1 x HIE 100	7,7
46 150 HI E27 FG ⁸⁾	46000 0268 ¹⁾	1 x HIE 150	8,4
46 35 HS FG ⁸⁾	46000 0216 ¹⁾	1 x HST/HSE 35	7,7
46 50/70 HS FG ^{3) 8)}	46000 0205 ¹⁾	1 x HST/HSE 50/70	7,7
46 50/70 HS-I FG ^{2) 3)}	46000 0207 ¹⁾	1 x HSE-I 50/70	7,6
46 100 HS FG ⁸⁾	46000 0209 ¹⁾	1 x HST/HSE 100	7,8
46 150 HS FG ⁸⁾	46000 0211 ¹⁾	1 x HST/HSE 150	8,5
for ceramic burner lamps, socket E27 or E40			
46 35 CE E27 FG ⁴⁾	46000 0234 ¹⁾	1 x HIT/HIE-CE 35	7,7
46 50/70 CE E27 FG ⁴⁾	46000 0222 ¹⁾	1 x HIT/HIE-CE 50/70	7,7
46 100 CE E40 FG ⁴⁾	46000 0226 ¹⁾	1 x HIT/HIE-CE 100	7,7
46 150 CE E40 FG ⁴⁾	46000 0230 ¹⁾	1 x HIT/HIE-CE 150	8,4
for high pressure lamps CosmoPolis white, ECG, socket PG Z12			
46 45 CPO FG	46000 0218	1 x HIT-CEod 45	7,4
46 60 CPO FG	46000 0219	1 x HIT-CEod 60	7,4
46 90 CPO FG	46000 0220	1 x HIT-CEod 90	7,4
for compact fluorescent lamps, socket GX24q-4			
46 218 KL EVG FG	46000 0221	2 x TC-L 18	6,5
46 32 KL EVG FG ⁵⁾	46000 0261	1 x TC-TEL 32	6,2
46 42 KL EVG FG ⁵⁾	46000 0262	1 x TC-TEL 42	6,2
for low pressure lamps, socket BY22d			
46 18 NA FG k ⁶⁾	46000 0213	1 x LST 18	7,2

1) -8) see series 46...

= suitable for insect protection



Further Series / Equipment

- with impact resistant PC glass
- with digital controlled output reduction system w/o control phase, as complete kit for easy conversion of existing installation
- with EVG for power reduction of ceramic burner lamps with or without control phase
- with LED indicator for monitoring the output reduction circuit
- with audio frequency suppressor
- with powder coated housing in any RAL colour
- in insulation class I
- for other voltages
- for higher ambient temperatures >25°C

Accessories / Spare Parts

Type	Article no.	
46000	46001 9000	PMMA cover
46000 PC	46001 9001	PC cover
46/010	46001 9002	

Pipe bracket for wall, pole and corner mounting, and post-top brackets please see end of this chapter.

Conventional Outdoor Light Fitting with Universal Mounting System Series 43...



Applications:

Through traffic streets, walkways, residential streets, cycle tracks, low traffic areas, industrial areas, small places, bridges, parking places ...

Design :

Housing: Glass fibre reinforced polyester resin.

Diffuser: Impact resistant, temperature resistant acrylic glass (PMMA) with inserted UV stabilized profile gasket (EPDM), hingeable and detachable.

Closure: Stainless steel latches.

Mirror reflector system: Surface refined purest aluminium.

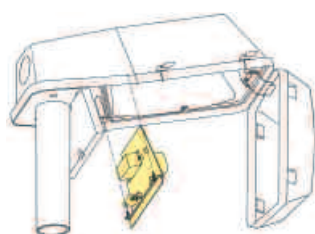
Gear tray: Polyester, serving as a separator between the lamp compartment and the mounting/connection section, carrying all electrical components.

Plastic cover: held in place by 1 screw, can be tilted for easy access.

Mounting system: Universal mounting on pole end Ø of 60mm and 76mm (inclination of the luminaire: 10°) or for pole outreaches with supporting section of 42Ø x 100mm (60Ø x 100mm on request).

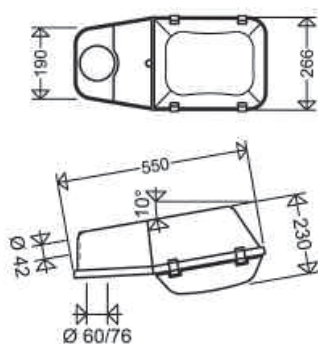
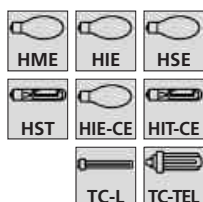
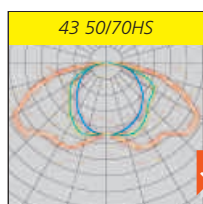
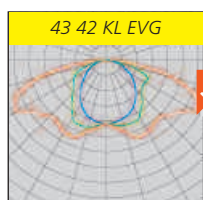
SCHUCH Quality - your advantage:

- product of an excellent quality, well known on the market thanks to its reliable long-time application
  - high quality long-life housing made from glass fibre reinforced polyester resin, stainless steel hinges
  - high quality mirror reflector system made from surface refined purest aluminium
  - shock proof tested RK 0.63 / 6.3
- universal application thanks to a flexible pole mounting system (pole end Ø up to 76mm without any additional components)
  - for a pole arm end Ø of 42mm (60mm upon request) or for post top mounting (Ø 60mm or 76mm)
  - no additional adapters required
- best suitable for easy mounting, maintenance and reset purposes
  - easily accessible connection chamber with hingeable cover
  - compact, easily removable electro kit for reset purposes
  - quick lamp replacement by hingeable bowl (without any tools)
- very economical thanks to a most effective light distribution system
  - highly efficient mirror reflector system, light technically optimized for large pole distances up to 53m



Removable gear tray
with all electrical components

43...



Type	Article no.	Lamps W	Weight ca. kg ⁹⁾
for high pressure lamps²⁾, socket E27 or E40			
43 50/80	43003 0001 ¹⁾	1 x HME 50 / 80	4,9
43 80/125	43003 0003 ¹⁾	1 x HME 80 / 125	5,0
43 70 HI E27 ^{5) 6) 8)}	43003 0064 ¹⁾	1 x HIE/P 70	5,0
43 100 HI E27 ^{5) 6) 8)}	43003 0066 ¹⁾	1 x HIE/P 100	5,1
43 150 HI E27 ^{5) 6) 8)}	43003 0068 ¹⁾	1 x HIE/P 150	5,8
43 35 HS ⁸⁾	43003 0097 ¹⁾	1 x HST/HSE 35	5,1
43 50/70 HS ⁸⁾	43003 0005 ¹⁾	1 x HST/HSE 50/70 ^Δ	4,9
43 50/70 HS-I ²⁾	43003 0007 ¹⁾	1 x HSE-I 50/70 ^Δ	4,8
43 100 HS ⁸⁾	43003 0009 ¹⁾	1 x HST/HSE 100	5,2
43 150 HS ⁸⁾	43003 0011 ¹⁾	1 x HST/HSE 150	6,1
for ceramic burner lamps, socket E27 or E40			
43 35 CE E27 ^{3) 6) 7)}	43003 0090 ¹⁾	1 x HIE-CE/P 35	5,1
43 50/70 CE E27 ^{3) 6) 7)}	43003 0078 ¹⁾	1 x HIT/HIE-CE/P 50/70	5,1
43 100 CE E27 ^{6) 7)}	43003 0080 ¹⁾	1 x HIT/HIE-CE/P 100	5,4
43 150 CE E27 ^{6) 7)}	43003 0082 ¹⁾	1 x HIT/HIE-CE/P 150	6,4
for high pressure CosmoPolis white, electronic ballast, socket PG Z12			
43 45 CPO	43003 0094	1 x HIT-CEod 45	4,7
43 60 CPO	43003 0095	1 x HIT-CEod 60	4,7
for compact fluorescent lamps, socket 2G11 or GX24q-4			
43 218 KL	43003 0014 ¹⁾	2 x TC-L 18	4,9
43 218 TKL ⁴⁾	43003 0016 ¹⁾	2 x TC-L 18	4,3
43 218 KL EVG	43003 0018	2 x TC-L 18	4,2
43 32 KL EVG ⁹⁾	43003 0019	1 x TC-TEL 32	4,0
43 42 KL EVG ⁹⁾	43003 0062	1 x TC-TEL 42	4,0

1) Uncomp., art. nos. for comp. see price list

2) For SON lamps with their internal ignitors

3) Available also for CDM-T and HCI-T lamps with lamp holder G12

4) Tandem wiring

5) Alternative lamp holders on request

6) For lamps with burst protection only

7) Includes ballast with timer

8) We recommend the use of ballasts with timer.

9) Lamp holder with Anti-Vandalism Lock

10) Weights without packing material

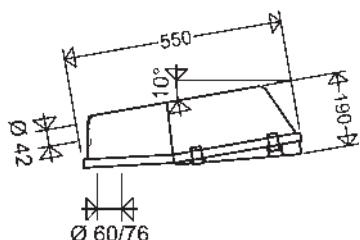


NEW

43... LED

with highpower LED

IP65 Lamp comp.	IP43 Connection section		LPH 4-6m	Wind load area A = 0,11m ²



Applications:

Through traffic streets, walkways, residential streets, cycle tracks, low traffic areas, industrial areas, small places, bridges, parking places ...

Design :

Same as the standard version, but with

flat plastic glass with aluminium frame.

LED: 24 OSRAM high power LED 1W, integrated optic with Batwing characteristics, colour temperature 5.000K.

Gear tray / heat sink detachable as one unit.

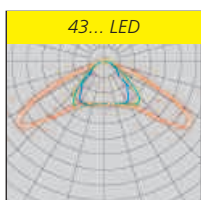
Power consumption: appr. 31W

Advantages of LED equipped Light Fitting:

- ideal light distribution by an integrated optical system with BATWING characteristic
- energy efficient solution for light point heights of 5 to 6 m
- light point distances up to 35 m acc to the required illumination class
- instant max. light output even at low temperatures
- low operating costs thanks to a low power consumption and a high optical output ratio
- extremely long LED life (abt. 50,000 hours at a 30% luminous flux drop)
- low maintenance costs thanks to long service intervals
- easy to maintain thanks to removable component kits
- LED with individual protection (failure protection)
- robust to vibrations and shocks
- best suitable in case of high operating cycles



Type	Article no.	Lamps W	Power consumption	Weight ca. kg
43 2401 LED	43003 0038	24 x 1W	31W	5,0

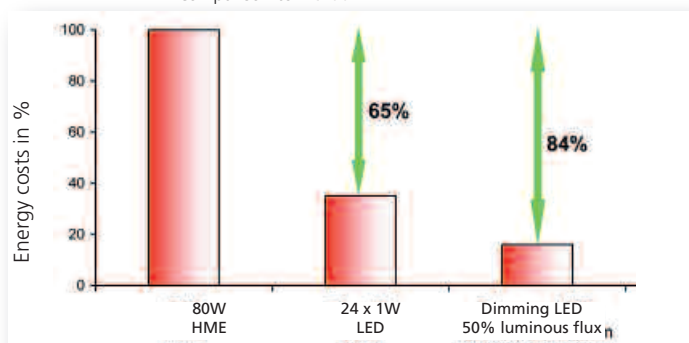


Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.
The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.
Guarantee claims based on this data are excluded.

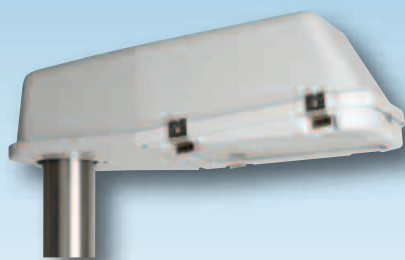
Energy cost savings

with use of LED series 43 2401 LED in comparison to 43 80

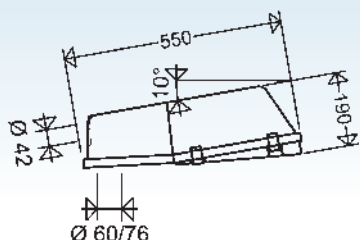
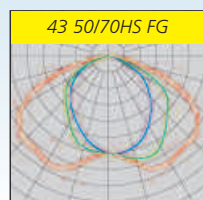
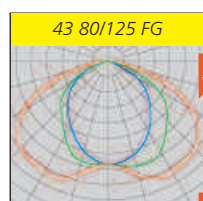


43... FG

object protecting light fitting with flat safety glass pane



DB standardized by Deutsche Bahn AG



Applications:

Track systems, lockages, object protection, ...

Design: As standard version but with flat

tempered safety glass held in an aluminium frame (FG), hingeable and detachable. Non-ageing silicone gasket located in the housing.

Type	Article no.	Lamps W	Weight ca. kg ¹⁰⁾
for high pressure lamps²⁾, socket E27 or E40			
43 50/80 FG ⁵⁾	43003 0020 ¹⁾	1 x HME 50 / 80	5,9
43 80/125 FG ⁵⁾	43003 0022 ¹⁾	1 x HME 80 / 125	6,1
43 70 HI E27 FG ^{7) 8)}	43003 0070 ¹⁾	1 x HIE 70	6,0
43 100 HI E27 FG ^{7) 8)}	43003 0072 ¹⁾	1 x HIE 100	6,1
43 150 HI E27 FG ^{7) 8)}	43003 0074 ¹⁾	1 x HIE 150	6,8
43 35 HS FG	43003 0101 ¹⁾	1 x HST/HSE 35	6,0
43 50/70 HS FG ^{5) 8)}	43003 0024 ¹⁾	1 x HST/HSE 50/70 Δ	5,9
43 50/70 HS-I FG ^{2) 5)}	43003 0026 ¹⁾	1 x HSE-I 50/70 Δ	5,8
43 100 HS FG ^{7) 8)}	43003 0028 ¹⁾	1 x HST/HSE 100	6,2
43 150 HS FG ^{7) 8)}	43003 0030 ¹⁾	1 x HST/HSE 150	7,1
for ceramic burner lamps, socket E27 or E40			
43 35 CE E27 FG ^{4) 7)}	43003 0103 ¹⁾	1 x HIT/HIE-CE 35	6,0
43 50/70 CE E27 FG ^{4) 7)}	43003 0084 ¹⁾	1 x HIT/HIE-CE 50/70	6,0
43 100 CE E40 FG ⁴⁾	43003 0086 ¹⁾	1 x HIT/HIE-CE 100	6,3
43 150 CE E40 FG ⁴⁾	43003 0088 ¹⁾	1 x HIT/HIE-CE 150	7,3
for high pressure CosmoPolis white, electronic ballast, socket PG Z12			
43 45 CPO FG	43003 0106	1 x HIT-CEod 45	5,6
43 60 CPO FG	43003 0107	1 x HIT-CEod 60	5,6
for compact fluorescent lamps, socket 2G11 or GX24q-4			
43 218 KL FG	43003 0033 ¹⁾	2 x TC-L 18 W	5,9
43 218 TKL FG ³⁾	43003 0035 ¹⁾	2 x TC-L 18 W	5,3
43 218 KL FG EVG	43003 0037	2 x TC-L 18 W	5,1
43 32 KL FG EVG ⁶⁾	43003 0096	1 x TC-TEL 32 W	5,0
43 42 KL FG EVG ⁶⁾	43003 0063	1 x TC-TEL 42 W	5,0
for low pressure lamps, socket BY22d			
43 18 NA FG k ⁹⁾	43003 0032	1 x LST 18 W	5,5

1) Uncomp., art. nos. for comp. see price list

2) For SON lamps with their internal ignitors

3) Tandem wiring

4) Includes ballast with timer

5) Reversible ballast

6) Lampholder with anti-vandal safety device

7) Alternative lamp holders on request

8) We recommend the use of ballasts with timer.

9) with capacitor

10) Weights without packing material.

= suitable for insect protection





43... LR

with light output reduction device

Design:

As before, but with device of light output reduction via control phase (LR).

Control phase off, light output reduction device active.

Switching logic:



Type	Article no. ¹⁾	Lamps W	lamp output reduction	Weight ca. kg ³⁾
for high pressure lamps, socket E27 or E40				
43 80 LR	43003 0053	1 x HME 80	→ 50	5,0
43 125 LR	43003 0055	1 x HME 125	→ 80	5,2
43 50 HS LR	43003 0099	1 x HST/HSE 50	→ 35	4,7
43 70 HS LR ²⁾	43003 0057	1 x HST/HSE 70	→ 50	5,0
43 100 HS LR ²⁾	43003 0039	1 x HST/HSE 100	→ 70	5,3

NEU

for high pressure CosmoPolis white, electronic ballast, socket PG Z12

43 60 CPO LR	43003 0109	1 x HIT-CEod 60	→ 36	4,7

1) Uncomp., art. nos. for comp. see price list

3) Weights without packing material

2) We recommend the use of ballasts with timer.



Further Series / Equipment

- with impact resistant polycarbonate bowl
- with audiofrequency blocking choke
- with plug/lamp holder device to mains connection terminal
- with LED indicator for checking the lamp output reduction system
- insulation class I (series 53...)
- for different mains voltages
- for ambient temperatures > +25°C

Accessories / Spare Parts

Type	Article no.	
43002	43001 9000	PMMA bowl with inserted gasket
43002 PC	43001 9001	PC bowl with inserted gasket
43/010	90212 9000	flat tempered safety glass with aluminium frame (for light fittings with gasket only)

Pipe bracket for wall, pole and corner mounting, and post-top brackets please see end of this chapter.

NEW
IP65

Polyester Rope Supported Light Fittings Series 31... UE / 35... UE



Applications:

Passage streets, main roads, pedestrian crossings, places and industrial areas...

Design:

Housing: Glass fibre reinforced polyester resin with non-ageing silicone gasket glued into the housing.

Bowl: Acrylic glass (PMMA), hingeable and detachable.

Closure: stainless steel latches

Reflector: White metallic, carrying all electrical components.

Mirror: Optimized mirror system from surface refined purest aluminium..

Connection: Connection terminal with separator/plug-device located in a connection box to be opened without any tools.

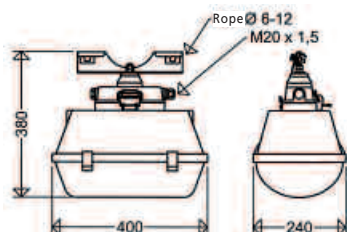
Separating the light fitting from the supporting stirrup (for any kind of repair work) is possible without any tools.

Mounting system: S/s supporting bracket, universally adjustable in steps of 15°, for fastening the fittings to ropes of a Ø of 6 to 12 mm.

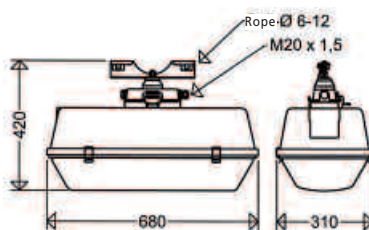
Note:

The light fittings for metal halide lamps HIE ≥ 250 W must be operated with „protected“ lamps only e.g. Osram HQI-P.

Series 31... UE

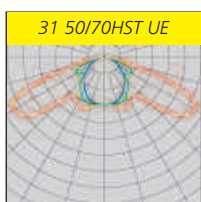


Series 35... UE



31... UE

with clear PMMA bowl



for high pressure lamps, socket E27

Type	Article no. ³⁾	Lamps W	Weight ca. kg ⁴⁾
31 50/80 UE ¹⁾	31000 0001	1 x HME 50 / HME 80	6,4
31 80/125 UE ¹⁾	31000 0003	1 x HME 80 / HME 125	6,4
31 50/2 UE	31000 0005	2 x HME 50	6,4
31 50/70 HS UE ^{1) 2)}	31000 0007	1 x HST/HSE 50/70	6,5
31 50/70 HS-I UE	31000 0011	1 x HSE-I 50/70	6,3

1) Reversible ballast

2) We recommend the use of ballasts with timer.

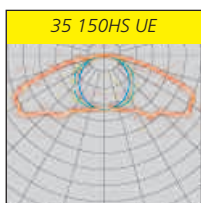
3) Uncomp., art. nos. for comp. see price list

4) Weights without packing material



35... UE

with clear PMMA bowl



for high pressure lamps, socket E27 or E40

Type	Article no. ³⁾	Lamps W	Weight ca. kg ⁴⁾
35 80/125/2 UE ¹⁾	35001 0003	2 x HME 80 / HME 125	11,4
35 250 UE	35001 0007	1 x HME 250	10,7
35 250 HI/HS UE ²⁾	35001 0009	1 x HIE/P 250 / HSE 250	11,8
35 50/70/2 HS UE ^{1) 2)}	35001 0001	2 x HSE 50 / 70	11,4
35 100 HS UE ²⁾	35001 0012	1 x HSE 100	9,6
35 150 HS UE ²⁾	35001 0005	1 x HSE 150	10,5

1) Reversible ballast

2) We recommend the use of ballasts with timer.

3) Uncomp., art. nos. for comp. see price list

4) Weights without packing material



Further Series / Equipment

– insulation class II

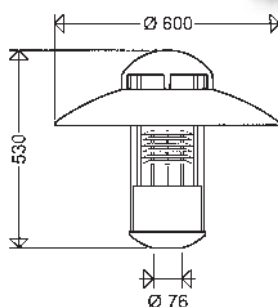
– with light output reduction device (31/35...LR)

– for ceramic burner lamps

Accessories / Spare Parts

Type	Article no.	
Spare bowls		
31000	31001 9000	for series 31...UE
35001 UE	35002 9002	for series 35...UE

Modern Post-Top Light Fittings Series 541...



Applications:

Residential streets, promenades, public parks, small bridges, pedestrian areas, low traffic areas, places etc...

Design:

Supporting section, roof and top cover:

Aluminium powder coated in jet black (RAL 9005), picture = powder coated in white aluminium (RAL 9006).

Glass cover: Clear, acrylic glass (PMMA)

Glare limitation: By screening lens from PMMI (GL 2), [Type 541/50/80 with additional glass cylinder (GZ GL 2)] or aluminium ring mirror (RS).

Electrical kit: Easily replaceable; comprising

all operating components including the lamp holder, ready wired for installation.

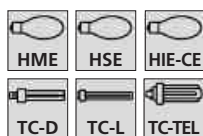
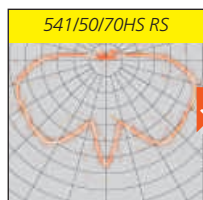
Plug-type device to the mains connection terminal, cable retainer for connection cable.

Mounting system: 3 noncorrosive steel attachment screws serve for fixation on straight pole end Ø of 76mm. Adaptor (RZ 1) for pole end Ø of 60mm (see accessories).

SCHUCH quality – your advantage:

- elegant outdoor light fitting with light deflection ring mirror and top light emission for a decorative light effect.
- high quality product made of aluminium with polyester resin paint finish, especially suited for long-term installation outdoors (excellent UV resistance, weather proof, high colour stability).
- easy to install and maintain with quick access through the removable light fitting cover, tool-free lamp exchange and replacement of the electronic block using plug connection (Disconnect connection).
- excellent, class KB1glare limitation

541... RS



for high pressure lamps, socket E27

Type	Article no.	Lamps W	Weight ca. kg ⁶⁾
541/50/80 RS ⁴⁾	10541 0009 ¹⁾	1 x HME 50 / 80	7,0
541/80/125 RS ⁴⁾	10541 0017 ¹⁾	1 x HME 80 / 125	7,0
541/35 HS RS ⁵⁾	10541 0041 ¹⁾	1 x HSE 35	
541/50/70 HS RS ^{4) 5)}	10541 0011 ¹⁾	1 x HSE 50 / 70	7,2
541/50/70 HS-I RS ^{3) 4)}	10541 0013 ¹⁾	1 x HSE-I 50 / 70	7,1

for ceramic burner lamps, socket E27

541/35 CE E27 RS ²⁾	10541 0037 ¹⁾	1 x HIE-CE/P 35	6,8
541/50/70 CE E27 RS ²⁾	10541 0039 ¹⁾	1 x HIE-CE/P 50/70	7,1

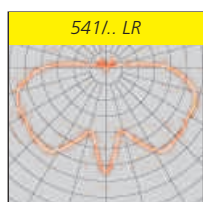
for compact fluorescent lamps, socket G24d or GX24q-4

541/218 KL RS	10541 0015 ¹⁾	2 x TC-D 18 W	5,3
541/218 KL RS EVG	10541 0035	2 x TC-D/E 18 W	6,1
541/224 KL RS EVG	10541 0045	2 x TC-L 24 W	6,3
541/32 KL RS EVG	10541 0044	1 x TC-TEL 32 W	4,9
541/42 KL RS EVG	10541 0022	1 x TC-TEL 42 W	4,9

- 1) Uncomp., article nos. for comp. see price list
 2) Includes ballast with timer
 3) For HSE lamps with their internal ignitors
 4) Reversible ballast
 5) We recommend the use of ballasts with timer.
 6) Weights without packing material

541... LR

with light output reduction device



for high pressure lamps, socket E27

Type	Article no. ¹⁾	Lamps W	Reduction	Weight ca. kg ²⁾
541/50 HS RS LR	10541 0046	1 x HSE 50	→ 35	7,2
541/70 HS RS LR	10541 0025	1 x HSE 70	→ 50	7,3

- 1) Uncomp., art. nos. for comp. see price list
 2) Weights without packing material



General advantages of LED-version:

- energy efficient solution for light point height of 4m
- immediate full light output even at low temperatures
- low maintenance costs due to long maintenance intervals
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, $T_a=25^{\circ}\text{C}$)
- resistant against shocks and vibration
- ideal for frequent operating cycles

NEW

541 1701 LED/.

with highpower LED

IP54



LPH
3-4m

Wind
load area
 $A = 0,12\text{m}^2$



Application:

541/1701 LED/R:

Promenades, public parks, pedestrian areas etc.

541/1701 LED/B:

Residential areas, residential and side roads, low traffic areas, footpaths and cycle tracks etc.

Design:

As standard design, but with:

LED: 17 OSRAM high power LED, 1W, co-

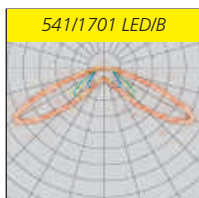
lour temperature 5.000K. Coloured LED in upper sector (optical decorative coloured accent e.g. in home or company colours) on request.

Heat sink, overheating protection and failure protection with individual fusing of LED.

Light distribution: LED-optic bi-directional (B) or symmetrical (R) and anodized pure aluminium ring mirror.

Advantages of LED Series 541/1701 LED/B

- pole light point distances of 26m/28m, with lighting which conforms to standards for residential and side roads, and footpaths and cycle tracks, illumination class S5
- up to 73%/63% energy savings per km and year in comparison to a 541/551... with an 80W mercury vapour / 50W sodium vapour lamp fluorescent lamp
- optimum light distribution with LED integrated optic, bi-directional (B) or symmetrical (R) light distribution
- reliable due to overheating and failure protection with individual fusing of LED (fault protection)
- future orientated with easy interchangeable gear-tray
- optical decorative colour effect with coloured LED, in upper sector (on request)



Type	Article no.	Qty. LED W	Power consumption	Weight ca. kg ¹⁾
541/1701 LED/R	10541 0052	17 x 1W	22W	7,1
541/1701 LED/B	10541 0051	17 x 1W	22W	7,1

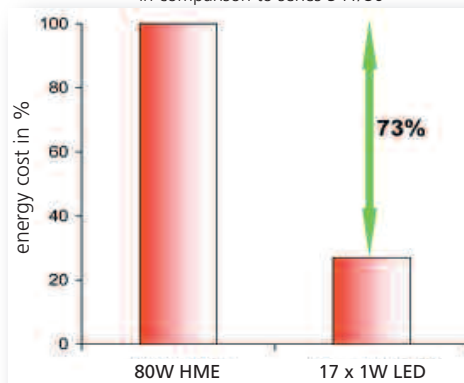
1) Weights without packing material

Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus. Guarantee claims based on this data are excluded.

Energy cost savings per km and year with use of type 541/1701 LED in comparison to series 541/80





General advantages of LED-version:

- energy efficient solution for light point height of 4m
- immediate full light output even at low temperatures
- low maintenance costs due to long maintenance intervals
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, $T_a=25^{\circ}\text{C}$)
- resistant against shocks and vibration
- ideal for frequent operating cycles

NEW

541/3001/2501 LED/.

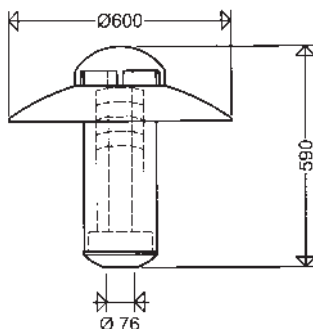
with highpower LED

IP54



LPH
3-4m

Wind
load area
 $A = 0,12\text{m}^2$



Application:

541/3001 LED/R:

Promenades, public parks, pedestrian areas, small squares, low traffic areas, etc.

541/2501 LED/A:

Residential areas, residential and side roads, footpaths and cycle tracks, etc.

Design:

As standard design, but with:

LED: LED module with heat sink and overheating protection, 30 or 25 high power LED, 1W, colour temperature 4.000K (3.000K on request)

Reflector: directional light with precise balanced combination of optical lens system. High-polished reflector and clear glass symmetrical (R) or asymmetrical (A).

Advantages of LED-type 541/1701 LED/SA

- pole light point distances up to 26m, with lighting which conforms to standards (illumination class S5)
- up to **70%/58%** energy savings pro km and year in comparison to a 541... with an 80W mercury vapour / 50W sodium vapour lamp fluorescent lamp
- additional energy savings with power reduction (dimmer) via control circuit (50% luminous flux with only 45% power consumption)
- optimum light distribution
- reliable due to overheating protection



Type	Article no.	Qty. LED W	Power consumption	Weight ca. kg ¹⁾
541/3001 LED/R	10541 0084	30 x 1W	47W	7,1
541/2501 LED/A	10541 0083	25 x 1W	39W	7,1

1) Weights without packing material

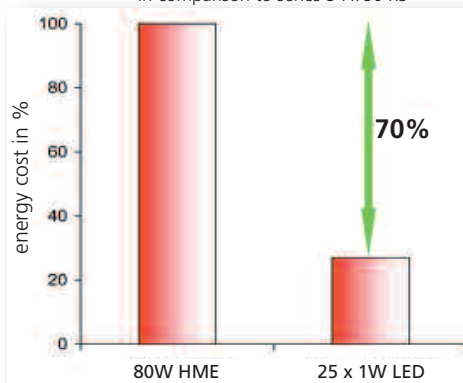
Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

Energy cost savings per km and year
using LED module Series 541/2501 LED/A
in comparison to series 541/80 RS





Further Series / Equipment

- insulation class II
- with 120° screening device (BL) to the house side
- with protective grid (10041 G) to protect against vandalism
- special coating in all RAL colours upon request



541... with protection grid (10041 G)

Accessories / Spare Parts

Type	Artikel-Nr.	
10041	10041 9000	clear PMMA glass cover for series 541...
10051	10051 9000	clear PMMA glass cover for series 551...
RS 1	90116 9000	ring mirror, aluminium
RS LED	90116 9002	ring mirror, aluminium LED-design
BL RS	90115 0001	120° screening device for ring mirror
GL 2	90083 9000	spare lens, PMMI (max. 80W)
BL GL 2	90114 0001	120° screening device for lens
RZ 1 schwarz	90126 0001	adaptor for post-top Ø of 60 mm
10041 G	10410 0001	protective grid for series 541...
10051 G	10510 0001	protective grid for series 551...
10051 Z	10510 0002	grille for series 551...



Classical Post-Top Light Fittings Series 542...

Applications:

Residential streets, promenades, public parks, small bridges, pedestrian areas, low traffic areas, places etc...

Ausführung:

Design:

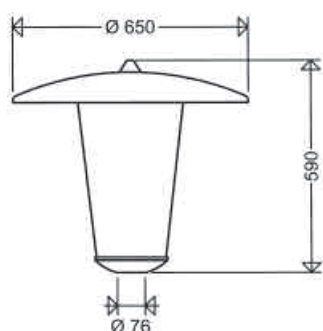
Roof: From glass fibre reinforced polyester resin (colour: similar to RAL 7035) or from aluminium, coated (all RAL colours possible).

Supporting section: Aluminium powder coated in light grey (RAL 7035) or same colour as aluminium roof.

Cover: Opal-white acrylic glass (PMMA), Type 542/80/125/2 opal-white PC glass.

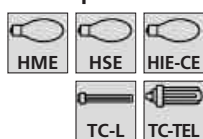
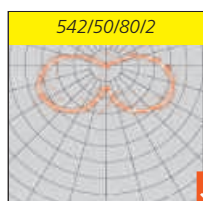
Electrical kit: Easily replaceable; comprising all operating components; wired ready for installation.

Mounting system: 3 noncorrosive steel attachment screws serve for fixation on straight poles Ø of 76 mm. Adaptor (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).



542...

with opalescent white PMMA glass cover



IP54		LPH 3-5m	Wind load area A = 0,15m²

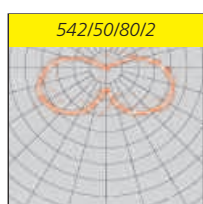
Type	Article no. ³⁾	Lamps W	Weight ca. kg ⁵⁾
for high pressure lamps, socket E27			
542/50/80/2 ³⁾	10542 0007 ¹⁾	2 x HME 50 / 80	6,5
542/80/125 ³⁾	10542 0001 ¹⁾	1 x HME 80 / 125	5,8
542/80/125/2	10542 0095 ¹⁾	2 x HME 80 / 125	7,4
542/35 HS ⁵⁾	10542 0037 ¹⁾	1 x HSE 35	5,5
542/50/70 HS ^{2) 3)}	10542 0011 ¹⁾	1 x HSE 50 / 70	5,9
542/50/70/2 HS ^{2) 3)}	10542 0013 ¹⁾	2 x HSE 50 / 70	7,4
542/50/70 HS-I	10542 0091 ¹⁾	1 x HSE-I 50 / 70	5,8
542/50/70/2 HS-I	10542 0080 ¹⁾	2 x HSE-I 50 / 70	7,2
for ceramic burner lamps, socket E27			
542/35 CE E27 ⁴⁾	10542 0033 ¹⁾	1 x HIE-CE/P 35	5,6
542/35/2 CE E27 ⁴⁾	10542 0049 ¹⁾	2 x HIE-CE/P 35	6,5
542/50/70 CE E27 ⁴⁾	10542 0035 ¹⁾	1 x HIE-CE/P 50/70	5,9
542/50/70/2 CE E27 ⁴⁾	10542 0051 ¹⁾	2 x HIE-CE/P 50/70	7,4
for compact fluorescent lamps, socket 2G11			
542/224 KL	10542 0053 ¹⁾	2 x TC-L 18 / 24	6,3
542/324 KL	10542 0055 ¹⁾	3 x TC-L 18 / 24	6,9
542/236 KL	10542 0039 ¹⁾	2 x TC-L 36	6,3
542/336 KL	10542 0041 ¹⁾	3 x TC-L 36	6,9
542/32 KL EVG	10542 0098	1 x TC-TEL 32	4,8
542/32/2 KL EVG	10542 0099	2 x TC-TEL 32	5,2
542/42 KL EVG	10542 0100	1 x TC-TEL 42	4,8
542/42/2 KL EVG	10542 0101	2 x TC-TEL 42	5,2

- 1) Uncomp., article nos. for comp. see price list
2) We recommend the use of ballasts with timer.
3) Reversible ballast

- 4) Includes ballast with timer
5) Weights without packing material

542... LR

with light output reduction device



IP54		LPH 3-5m	Wind load area A = 0,15m²

Type	Article no. ¹⁾	Lamps W	Reduction	Weight ca. kg ²⁾
for high pressure lamps, socket E27				
542/50 HS LR	10542 0102	1 x HSE 50	→ 35	5,9
542/70 HS LR	10542 0072	1 x HSE 70	→ 50	6,0

- 1) Uncomp., art. nos. for comp. see price list
2) Weights without packing material





With coated aluminium roof (series 542/... AL)

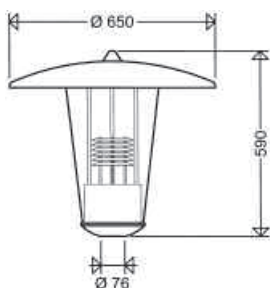


Further Series / Equipment

- insulation class II
- with screening device to the house side
- with black grille (10042 G)
- with aluminium roof, in various RAL colours
- with impact resistant PMMA glass

Accessories / Spare Parts

Type	Article no.	
10042/1	10042 9000	white-opal PMMA glass
10042/3	10042 9002	white-opal PMMA glass, impact resistant
10042/4	10042 9003	white-opal PC glass
10042 G	10040 0001	grille, black
BL 542	90113 0001	screening device 180° for 542
RZ 1 grau	90044 0001	adaptor for post-top ø of 60mm



Classical Post-Top Light Fittings Series 543...

Applications:

Residential streets, promenades, public parks, small bridges, pedestrian areas, low traffic areas, places etc...

Design :

Roof: Glass fibre reinforced polyester resin with integrated insert nut (colour: similar to RAL 7035) or from aluminium, coated (all RAL colours to be inquired).
Supporting section: aluminium powder coated light grey (RAL 7035) or same colour as aluminium roof.
Cover: Clear acrylic glass (PMMA).
Glare limitation: By screening lens from PMMI (GL 2), [Type 543/50/80 with addi-

tional glass cylinder (GZ GL 2)] or aluminium ring mirror (RS).

electrical kit: Easily replaceable; with all operating components ready wired for installation.

Plug-type device to the mains connection terminal, cable retainer for connection cable.

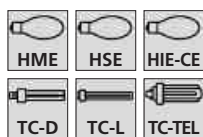
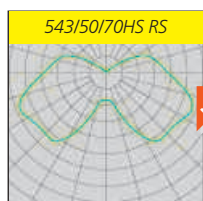
Mounting system: 3 noncorrosive steel attachment screws serve for fixation on straight poles Ø 76 mm. Adaptor (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).

SCHUCH quality – your advantage:

- elegant outdoor light fitting with an aluminium light deflection ring mirror.
- high quality product made of glass fibre reinforced polyester especially suited for long-term installation outdoors.
- aluminium roof with polyester resin paint finish, particularly for long-term installation outdoors (excellent UV resistance, weather proof, high colour stability) on request.
- easy to install and maintain with quick access through the removable light fitting cover, tool-free lamp exchange and replacement of the electronic block using plug connection (Disconnect connection).
- excellent glare limitation to class KB1

543... RS

with ring mirror and clear PMMA glass cover



Type	Article no.	Lamps W	Weight ca. kg ⁶⁾
for high pressure lamps, socket E27			
543/50/80 RS ⁴⁾	10543 0011 ¹⁾	1 x HME 50 / 80	7,0
543/80/125 RS ⁴⁾	10543 0021 ¹⁾	1 x HME 80 / 125	7,0
543/35 HS RS ⁵⁾	10543 0073 ¹⁾	1 x HSE 35	7,2
543/50/70 HS RS ^{4) 5)}	10543 0013 ¹⁾	1 x HSE 50 / 70	7,2
543/50/70 HS-I RS ^{3) 4)}	10543 0015 ¹⁾	1 x HSE-I 50 / 70	7,1
for ceramic burner lamps, socket E27			
543/35 CE E27 RS ²⁾	10543 0069 ¹⁾	1 x HIE-CE/P 35	7,0
543/50/70 CE E27 RS ²⁾	10543 0071 ¹⁾	1 x HIE-CE/P 50/70	7,3
for compact fluorescent lamps, socket G24d or GX24q-4			
543/218 KL RS	10543 0019 ¹⁾	2 x TC-D 18	5,3
543/218 KL RS EVG	10543 0023	2 x TC-D/E 18	6,3
543/224 KL RS EVG	10543 0076	2 x TC-L 24	5,8
543/32 KL RS EVG	10543 0024	1 x TC-TEL 32	4,9
543/42 KL RS EVG	10543 0026	1 x TC-TEL 42	4,9

1) Uncomp., article nos. for comp. see price list

2) Includes ballast with timer

3) For HSE lamps with internal ignitor

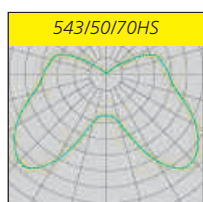
4) Reversible ballast

5) We recommend the use of ballasts with timer.

6) Weights without packing material

543...

with lens and clear PMMA glass cover



Type	Article no.	Lamps W	Weight ca. kg ⁵⁾
for high pressure lamps, socket E27			
543/50/70 HS ^{2) 4)}	10543 0003 ¹⁾	1 x HSE 50 / 70	7,5
543/50/70 HS-I ^{3) 4)}	10543 0005 ¹⁾	1 x HSE-I 50 / 70	7,4
for compact fluorescent lamps, socket G24d or GX24q-4			
543/218 KL	10543 0009 ¹⁾	2 x TC-D 18 W	5,6
543/42 KL EVG	10543 0025	1 x TC-TEL 42 W	5,2

1) Uncomp., article nos. for comp. see price list

2) We recommend the use of ballasts with timer.

3) For HSE lamps with internal ignitor

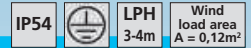
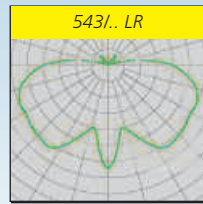
4) Reversible ballast

5) Weights without packing material



543... LR

with light output reduction device



Type	Article no. ¹⁾	Lamps W	Reduction	Weight ca. kg ²⁾
for high pressure lamps, socket E27				
543/50 HS LR RS	10543 0077	1 x HSE 50	→ 35	7,2
543/70 HS LR RS	10543 0050	1 x HSE 70	→ 50	7,3

1) Uncomp., art. nos. for comp. see price list

2) Weights without packing material

General advantages of LED-version:

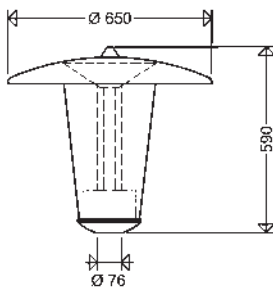
- energy efficient solution for light point height of 4m
- immediate full light output even at low temperatures
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, Ta=25°C)
- low maintenance costs due to long maintenance intervals
- resistant against shocks and vibration
- ideal for frequent operating cycles



NEW

543/2401 LED/.

indirect light



Application:

543/2401 LED/R:

Promenades, public parks, pedestrian areas, small squares, etc.

543/2401 LED/B:

Residential areas, residential and side roads, footpaths and cycle tracks, low traffic areas, etc.

Design:

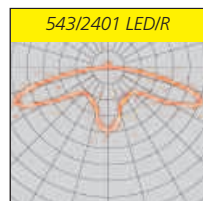
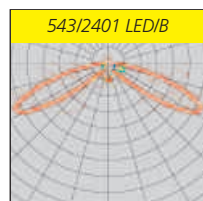
As standard design, but with: 24 high

power LED 1W, colour temperature 4.000K.

Heat sink, overheating and failure protection with individual fusing of LED. Indirect lighting with anodized pure aluminium mirror crown reflector, symmetrical light (R) or bi-directional (B) as required.

Advantages of Series 543/2401 LED/B

- pole light point distances of 36m, with lighting which conforms to standards (illumination class S5)
- up to **79%/67%** energy savings pro km and year in comparison to a 543... with an 125W mercury vapour / 70W sodium vapour lamp fluorescent lamp
- additional energy savings with power reduction (dimmer) via control circuit (50% luminous flux with only 45% power consumption)
- optimum light distribution with LED integrated bi-directional optic (Batwing characteristic), symmetrical light distribution on request.
- reliable due to individual fusing of LED (fault protection)

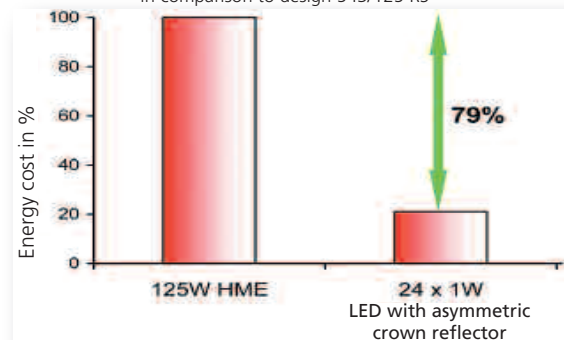


Type	Article no.	Qty. LED W	Power consumption	Weight ca. kg ¹⁾
543/2401 LED/R	10543 0079	24 x 1W	31W	5,1
543/2401 LED/B	10543 0080	24 x 1W	31W	5,1

1) Weights without packing material

Energy cost savings per km and year

using LED Series 543/2401 LED/B
in comparison to design 543/125 RS



Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

NEW

543/3001/2501 LED/.

IP54  LPH 3-4m  Wind load area A = 0,12m² 

with symmetrical or asymmetrical light



Application:

543/3001 LED/R:

Promenades, public parks, pedestrian areas, small squares, low traffic areas, etc.

543/2501 LED/A:

Residential areas, residential and side roads, footpaths and cycle tracks, etc.

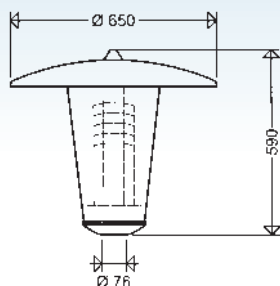
Design:

As standard design, but with:

LED: LED module with heat sink and

overheating protection, 30 or 25 high power LED, 1W, colour temperature 4.000K (3.000K on request)

Reflector: directional light with precise balanced combination of optical lens system. High-polished reflector and clear glass symmetrical (R) or asymmetrical (A).



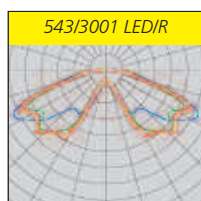
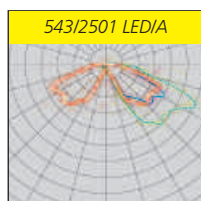
Advantages of Series 543/2501 LED/A

- pole light point distances of 28m, with lighting which conforms to standards (illumination class S5)
- up to **68%/50%** energy savings pro km and year in comparison to a 543... with an 125W mercury vapour / 70W sodium vapour lamp fluorescent lamp
- additional energy savings with power reduction (dimmer) via control circuit (50% luminous flux with only 45% power consumption)
- optimum light distribution
- reliable due to overheating protection



Type	Article no.	Qty. LED W	Power consumption	Weight ca. kg ¹⁾
543/3001 LED/R	10543 0081	30 x 1W	47W	6,3
543/2501 LED/A	10543 0082	25 x 1W	39W	6,3

1) Weights without packing material



Note:

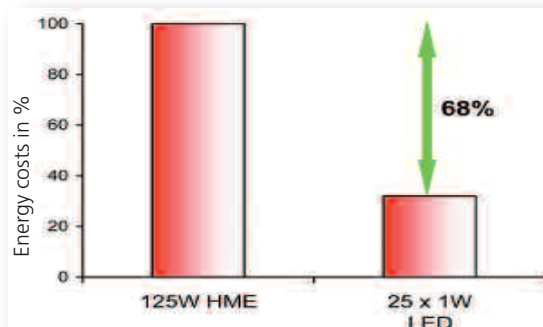
The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

Energy cost savings per km and year

using LED module Series 543/2501 A in comparison to design 543/125 RS



Outdoor Light fittings



NEW

543/1701 LED/.

light from above



Application:

543/1701 LED/R:

Promenades, public parks, pedestrian areas,

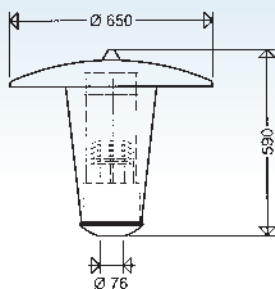
543/1701 LED/B

Residential areas, residential and side roads, low traffic areas, footpaths and cycle tracks etc.

Design:

As standard design, but with 17 OSRAM high power LED, 1W, colour temperature 5.000K. Heat sink, with active cooling and thermal trip.

Light distribution: LED optic bi-directional (B) or symmetrical (R) and anodized pure aluminium ring reflector.



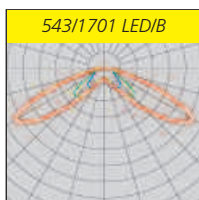
Advantages of Series 543/1701 LED/A

- pole light point distances of 26m/28m, with lighting which conforms to standards for residential and side roads, and footpaths and cycle tracks, illumination class S5
- up to 73%/63% energy savings per km and year in comparison to a 543... with an 80W mercury vapour / 50W sodium vapour lamp fluorescent lamp
- optimum light distribution with LED integrated optic, bi-directional (B) or symmetrical (R) light distribution
- reliable due to overheating and failure protection with individual fusing of LED (fault protection)
- future orientated with easy interchangeable gear-tray



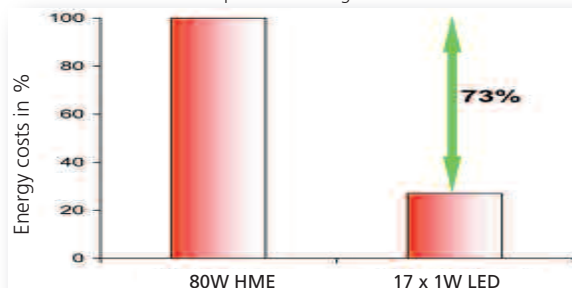
Type	Article no.	Qty. LED W	Power consumption	Weight ca. kg ¹⁾
543/1701 LED/B	10543 0083	17 x 1W	21W	7,1
543/1701 LED/R	10543 0084	17 x 1W	21W	7,1

1) Weights without packing material



Energy cost savings

using LED Series 543/1701 LED in comparison to design 543/80



Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.



Further Series / Equipment

- insulation class II
- with 120° screening device (BL) to the house side
- with impact resistant PMMA or PC glass

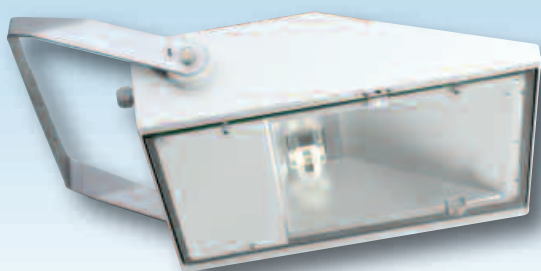
- with aluminium roof, standard colour RAL 7035 (series 543...ALU), special coating in other RAL-colours upon request



Accessories / Spare Parts

Type	Article no.	
10043	10043 9000	clear PMMA glass cover
RS 1	90116 9000	ring mirror, aluminium
RS LED	90116 9002	ring mirror, aluminium LED design
BL RS	90115 0001	spare lens, PMMI (max. 80W HME)
GL 2	90083 9000	120° screening device for lens
BL GL 2	90114 0001	120° screening device for ring mirror
RZ 1 grau	90044 0001	adaptor for post-top ø 60mm

Asymmetrical Plane Surface Floodlight for Lamps up to 250W Series 7572...



with new
mirror optics

Applications:

Illumination of building fronts, advertisement signboards, posters, trees in parks and gardens etc, parking areas, industrial areas and stockyards, small sports grounds etc.

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035), built-in control gear, wired ready for installation.

Mounting bracket: Infinitely adjustable
Glass: Tempered safety glass without frame, hinged, and with EPDM gasket.

Central locking system: Operated by a 5mm Allen key. Hinges on the opposite

side.

Reflector: Optimized high anodized mirror finish pure aluminium

Connection: 3 pole terminal block up to 4,0 mm².

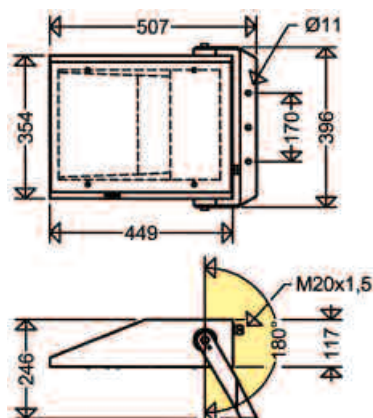
Cable entry: 1 cable gland M20 x 1.5

Mounting:

- **Standing or hanging** (wall, ceiling, ground or pole mounting) using mounting stirrup with 3 holes Ø 11mm
- **Direct mounting** on Ø 60mm or Ø 76mm poles, or on **2 up to 4 arm post top adapters** with carriers Ø 60mm and fixed with pipe clamps.

SCHUCH Quality - your advantage:

- sturdy, high-quality plane surface floodlight for a reliable long-time application
- extremely compact design, complete with the whole electrical kit, wired ready for installation
- **Original SCHUCH central locking system**
- high quality polyester resin coating, especially suited for outdoor applications (excellent UV-resistance, weather-proof and colour stability).
- highly effective, light technically optimized mirror system that guarantees a high efficiency of operation
- precise light control with an excellent glare limitation and minimized light scattering
- quick and easy lamp replacement due to central locking system and hinged glass
- universal mounting, also for multiple lamp arrangements

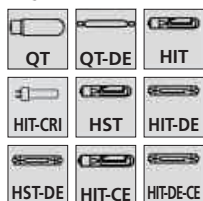
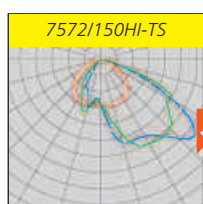


Swivel range 180° (infinitely adjustable)

7572...



asymmetrical luminous radiation



Type	Article no.	Lamps W	Weight ca. kg ⁶⁾
for tungsten halogen, socket E27 or R7s			
7572/250 E27	75720 0017	QT32 max. 250	4,3
7572/200 R7s	75720 0018	QT-DE12 max. 200	4,3
for high pressure lamps of tubular shape, socket E27 or E40			
7572/70 HS ⁵⁾	75720 0005 ¹⁾	HST 70	5,8
7572/150 HS ⁵⁾	75720 0003 ¹⁾	HST 150	6,8
for high pressure double-ended tubular lamps, socket Rx7s or Rx7s-24			
7572/70 HI/HS-TS ^{3) 5)}	75720 0009 ¹⁾	HIT/HST-DE 70	5,7
7572/150 HI/HS-TS ^{3) 5)}	75720 0011 ¹⁾	HIT/HST-DE 150	6,6
for ceramic burner lamps, socket E27 or E40			
7572/70 CE E27 ^{2) 4)}	75720 0021 ¹⁾	HIT-CE 70	5,8
7572/100 CE E40 ^{2) 4)}	75720 0025 ¹⁾	HIT-CE 100	6,2
7572/150 CE E40 ⁴⁾	75720 0029 ¹⁾	HIT-CE 150/c	6,8
for ceramic burner lamps, socket Rx7S			
7572/70 CE-TS ⁴⁾	75720 0033 ¹⁾	HIT-DE-CE 70	5,7
7572/150 CE-TS ⁴⁾	75720 0035 ¹⁾	HIT-DE-CE 150	6,6

1) Uncomp., art. nos. for comp. see price list

2) Alternative lamp holders on request

3) Suitable for insect protection only with HST

4) Includes ballast with timer

5) We recommend the use of ballasts with timer.

6) Weights without packing material

= suitable for insect protection



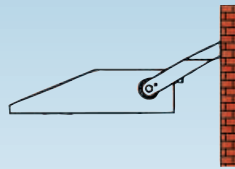
Further Series / Equipment

- with 2 cable entries (also M25 x 1,5)
- stainless steel, glass pearl treated

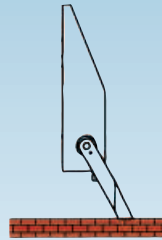
- for higher ambient temperatures

Possible mounting methods:

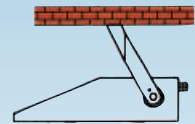
Mounting using stirrup



Wall mounting

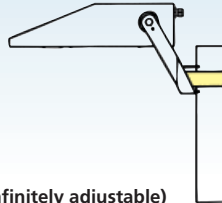


Floor mounting



Ceiling mounting

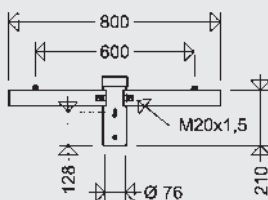
Direct pole mounting or on multiple post top adapters using pipe clamps ROB 60/76



Swivel range 90° (infinitely adjustable)



Pole cross arm 7573 TR



Accessories / Spare Parts

Type	Article no.	
7502	75001 9002	spare glass pane
7502 ZV	75001 9012	spare glass pane for central locking system
2561	25610 9000	plastic cable gland M20 x 1,5
7573 TR	75739 0002	pole cross arm with accessories for mounting 2 plane surface floodlights to poles of Ø 76mm
ROB 60/76	90270 0005	pipe clamp for direct pole mounting or on multiple post top adapters

Asymmetrical Plane Surface Floodlight for Lamps up to 1000W Series 7573...



with new
mirror optics

Applications:

Sports fields, car parks, industrial areas, stockyards, building sites, airfield aprons, buildings, illumination of groups of trees in parks and gardens etc.

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035), built-in control gear, wired ready for installation, with integrated venting system.

Mounting bracket: Infinitely adjustable

Glass: Tempered safety glass without frame, hinged, and with EPDM gasket.

Central locking system: Operated by a 5mm Allen key. Hinges on the opposite side.

Reflector: Optimized high anodized mirror finish pure aluminium

Connection: 3 pole terminal block up to 4,0 mm².

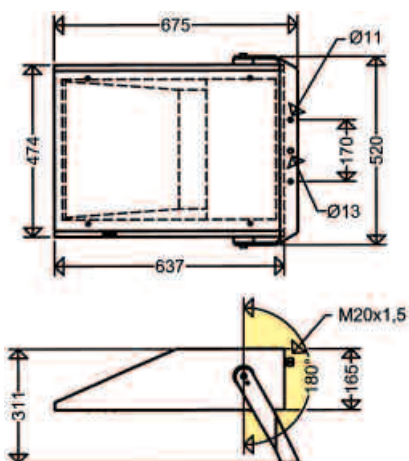
Cable entry: 1 cable gland M20 x 1.5

Mounting:

- **Standing or hanging** (wall, ceiling, ground or pole mounting) using mounting stirrup with 3 holes
- **Direct mounting** on Ø 60mm or Ø 76mm poles, or on **2 up to 4 arm post top adapters** with carriers Ø 60mm and fixed with pipe clamps.

SCHUCH Quality - your advantage:

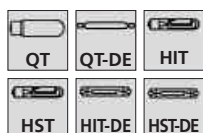
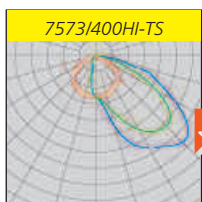
- sturdy, high-quality plane surface floodlight for a reliable long-time application
- extremely compact design, complete with the whole electrical kit, wired ready for installation
- **Original SCHUCH central locking system**
- high quality polyester resin coating, especially suited for outdoor applications (excellent UV-resistance, weather-proof and colour stability).
- with special pressure compensation system to avoid internal condensation
- highly effective, light technically optimized mirror system that guarantees a high efficiency of operation
- precise light control with an excellent glare limitation and minimized light scattering
- quick and easy lamp replacement due to central locking system and hinged glass
- universal mounting, also for multiple lamp arrangements



Swivel range 180° (infinitely adjustable)

7573...

asymmetrical luminous radiation



Type	Article no.	Lamps W	luminous flux	Weight ca. kg ⁵⁾
7573/1000 E40	75730 0015	QT38 max. 1000	24.000	11,6
7573/1000 R7s	75730 0016	QT-DE12 max. 1000	22.000	11,6
for high pressure lamps, tubular shape, socket E40				
7573/250 HI/HS ^{2) 3)}	75730 0001 ¹⁾	HIT/HST 250	20.000/27.000	14,0
7573/400 HI ^{2) 4)}	75730 0003 ¹⁾	HIT 400	25.000	14,0
7573/400 HS ²⁾	75730 0005 ¹⁾	HST 400	48.000	15,1
7573/600 HS ²⁾	75730 0019	HST 600	90.000	11,8
for high pressure lamps, double-ended tubular lamps, socket FC2				
7573/250 HI-TS ²⁾	75730 0007 ¹⁾	HIT-DE 250	20.000	13,2
7573/400 HI-TS ^{2) 4)}	75730 0009 ¹⁾	HIT-DE 400	28.000	13,2
7573/250 HS-TS ²⁾	75730 0011 ¹⁾	HST-DE 250	25.500	13,2
7573/400 HS-TS ²⁾	75730 0013 ¹⁾	HST-DE 400	48.000	14,3

1) Uncomp. article nos. for comp. see price list.

2) We recommend the use of ballasts with timer.

3) Suitable for insect protection with HST 250

4) If metal halide lamp to be used is suitable for

operating with HS ballast please select HS light fitting for higher luminous flux

5) Weights without packing material.

= suitable for insect protection

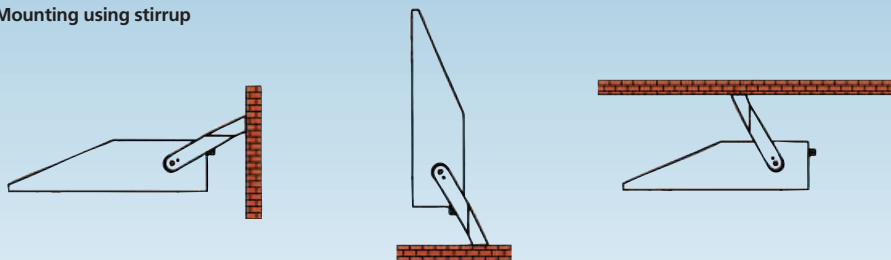


Further Series / Equipment

- with 2 cable entries
- with cable entry M25 x 1,5
- with light output reduction
- stainless steel version, glass pearl treated
- for higher ambient temperatures

Possible mounting methods:

Mounting using stirrup

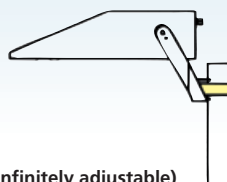


Wall mounting

Floor mounting

Ceiling mounting

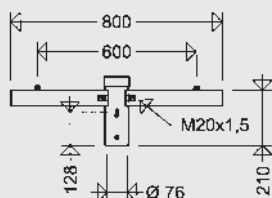
Direct pole mounting or on multiple post top adapters using pipe clamps ROB 60/76



Swivel range 90° (infinitely adjustable)



Pole cross arm 7573 TR



Accessories / Spare Parts

Type	Article no.	
7501	75001 9001	spare glass
7501 ZV	75001 9011	spare glass pane for central locking system
2561	25610 9000	cable gland M20 x 1,5
7573 TR	75739 0002	pole cross arm with accessories for mounting 2 plane surface floodlights to poles of Ø 76mm
ROB 60/76	90270 0005	pipe clamp for direct pole mounting or on multiple post top adapters

Asymmetrical Plane Surface Floodlight for Lamps up to 2000W Series 7574...



Application:

Illumination of open spaces, industrial areas and stockyards, container terminals, building sites, airport aprons, building fronts, sport and playing fields of all types, etc.,

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035).

Glass: Tempered safety glass without frame, hinged, and with silicone gasket.

Reflector: Optimized high anodized mirror finish pure aluminium

Connection: External built-on cast silumin terminal box with 1 cable gland M20 x 1.5

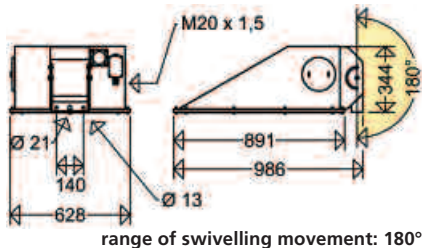
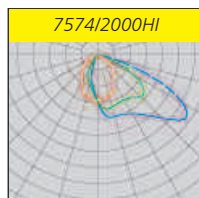
Lamp replacement: Quick and easy lamp replacement through side mounted cover.

Mounting: Stirrup with 1 central hole Ø 21mm and 2 spaced at 140mm holes Ø 13mm. Adjustable in increments of 5°, swivel range ± 90°.

SCHUCH Quality - your advantage:

- robust quality plane floodlight for reliable long-term use
- high quality polyester resin coating, especially suited for outdoor applications (excellent UV-resistance, weather-proof and colour stability)
- highly effective, optimized mirror reflector system with a high operation efficiency
- precise directional light with excellent glare limitation and minimized light scatter
- exact floodlight tilt adjustment in increments of 5°
- integrated special venting system to avoid internal condensation
- external built-on terminal box for easy connection to the mains
- universal mounting, also for multiple lamp arrangements.

7574...



Type	Article no.	Lamps W	Luminous flux	Weight ca. kg ⁵⁾
for high pressure lamps, tubular shape, socket E40 with attached ignitor, without ballast				
7574/600 HS ZG ⁴⁾	75740 0006	HST 600	90.000	22,7
7574/1000 HI/HS ZG ^{3) 4)}	75740 0001	HIT/HST 1000	80.000/130.000	22,7
7574/2000 HI ZG ^{1) 4)}	75740 0004	HIT 2000	170.000	22,7
... neither ballast, nor ignitor				
7574/2000 HI ²⁾	75740 0003	HIT 2000	170.000	22,1

1) For lamps to operate with ignitor, e.g. OSRAM

HQI-T 2000/D (10,3 A) and HQI-T 2000/NE SUPER (8,8 A)

2) For lamps to operate without ignitor, e.g. OSRAM HQI-T 2000/N (8,8 A) und

HQI-T 2000/D/I (10,3 A)

3) Suitable for insect protection with HPSV lamps only.

4) We recommend the use of ballasts with timer.

5) Weights without packing material

= suitable for insect protection

Note: Ballasts or ballasts + ignitors incorporated into separate box no. 1032... or mounted on assembly units no. 10160/10161... (see ballast housings/assembly units at the end of this chapter). to be ordered separately!



Accessories / Spare Parts

Type	Article no.	
7500	75001 9000	spare front glass

Asymmetrical Plane Floodlight for Lamps up to 2000W Series 7575...



Application:

Illumination of recreation, sport and playing fields of all types, open spaces, industrial areas and stockyards, container terminals, building sites, airport aprons, building fronts etc.,

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035).

Glass: Tempered safety glass without frame, hinged, and with silicone gasket.

Reflector: Optimized high anodized mirror finish pure aluminium

Connection: External built-on cast silumin terminal box with 1 cable gland

M20 x 1.5

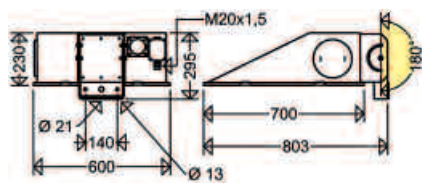
Lamp replacement: Quick and easy lamp replacement through side mounted cover.

Mounting: Stirrup with 1 central hole Ø 21mm and 2 spaced at 140mm holes Ø 13mm. Adjustable in increments of 5°, swivel range ± 90°.

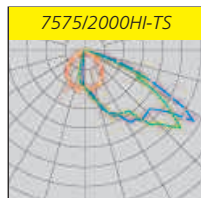
SCHUCH Quality - your advantage:

- robust quality plane floodlight for reliable long-term use
- high quality polyester resin coating, especially suited for outdoor applications (excellent UV-resistance, weather-proof and colour stability)
- highly effective, light technical optimized mirror reflector system with a high operation efficiency
- precise directional light with excellent glare limitation and minimized light scattering
- exact floodlight tilt adjustment in increments of 5°
- integrated special venting system to avoid internal condensation
- external built-on terminal box for easy connection to the mains
- universal mounting, also for multiple lamp arrangements.

7575...



Schwenkbereich 180°



Type	Artikel-Nr.	Lampen W	Lichtstrom lm	Gewicht ca. kg ⁵⁾
for tubular high pressure lamps, socket E40 with built-on ignitor, without ballast				
7575/1000 HI/ HS ZG ^{2) 3) 4)}	75750 0001	HIT/HST 1000	80.000/130.000	16,6
for high pressure double-ended tubular lamps, cable with built-on ignitor, without ballast				
7575/1000 HI-TS ZG ^{2) 4)}	75750 0003	HIT-DE 1000	90.000	16,6
7575/2000 HI-TS ZG ^{2) 4)}	75750 0004	HIT-DE 2000	200.000	16,6
7575/2000 HI-TS L ZG ^{1) 2) 4)}	75750 0005	HIT-DE 2000	225.000	16,6

1) Floodlight for long-arc lamps e.g. OSRAM HQI-TS 2000/NL

2) Ignitor with timer see technical supplement "Electrotechnik/Ignitors"

3) Insect friendly using sodium vapour lamps

4) Weights without packing material

= suitable for insect protection

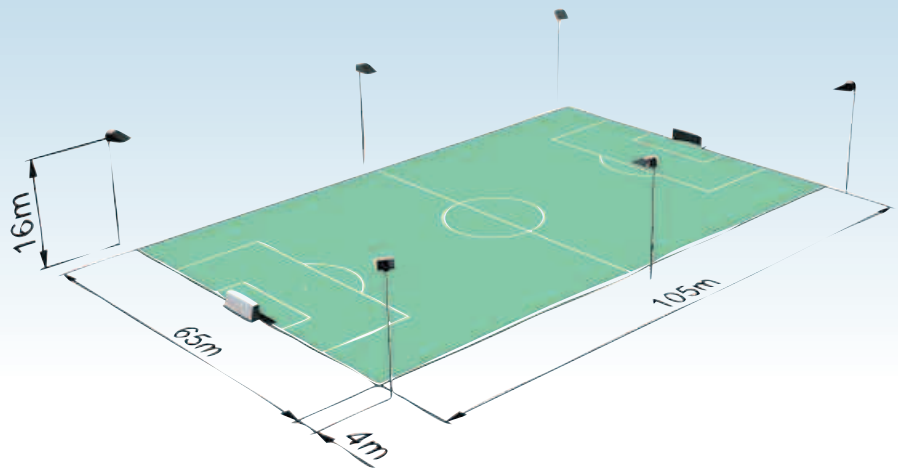
Note: Ballast is built into separate ballast housing 1032..., or on sub-assembly 10160/10161... for installation inside poles (see ballast housings and terminal boxes)

Accessories / Spare Parts

Type	Artikel-Nr.	
7504	75001 9004	Spare glass

**Glare-reduced lighting of playing fields to DIN EN 12193
for football, handball, hockey etc.**

Lighting for football training fields with asymmetrical plane floodlights 7574...



Field data:	Size:	105m x 65m
	Poles:	6 Stück
	Height of poles:	16m
	Distance to the ground:	ca. 4m
Selected lighting:	8 x type 7574/2000HI	
	lamp: OSRAM HQI-T 2000N	
	+ 8 x ballast housing 1032/2000HI 10,3 komp	
	or	
	+ 8 assembly units for location inside poles type 10160/2000HI 10,3 compensated or type 10161/2000HI 10,3 compensated	

The above solution meets all the requirements to DIN EN 12193 in respect to light intensity and evenness. At the same time special attention is given to the evenness of the light intensity, maximum glare limitation and minimum light scatter.

No ignitors are necessary for the selected lighting types, the distance between the electrical control gear and light fitting is not important for the safe ignition of the lamps. The fuse protection must be made on site when using the mounting accessories type 10161





Symmetrical Floodlight for Lamps up to 1000 W Series 7601...

Applications:

Illumination over great distances e.g. of churches, buildings, towers, sign boards or any kind of objects.

Design:

Housing: Cast aluminium alloy coated in light grey (RAL 7035).

Reflector: High anodized purest aluminium.

Front glass: Safety glass pane retained in a profiled frame, hingeable and detachable.

Connection: 1 cable gland M20 x 1.5 in the housing.

Mounting system: Stirrup with 1 central boring and 2 additional borings at a distance of 120mm, Ø. of the holes 11mm. Range of swivelling movement of the bracket 150°, inclination in steps of 5°.

Lamp replacement: Without any tools.

a) Ellipsoidal lamps: By removing the glass frame.

b) Tubular lamps: By opening hinged cover of housing and removing gear set.

Ignitor incorporated.

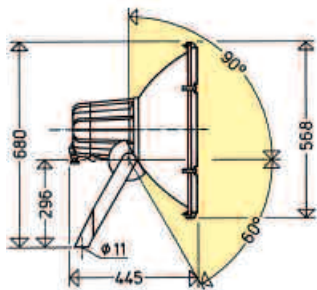
7601...

IP65

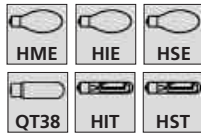
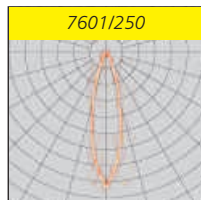


Wind load area
A = 0,24m²

with intensive light beam



range of swivelling movement: 150°



Type	Article no.	Lamps W	Weight ca. kg ⁶⁾
for tungsten halogen lamps, socket E40, ballast not required			
7601/1000 E40	76010 0001	QT38 500/1000	10,2
for high pressure lamps, socket E 27, ballast inside the housing			
7601/125	76010 0002 ²⁾	HME 125	11,5
for high pressure lamps, socket E40 or E 27, ballast see note			
7601/250	76010 0003	HME 250	10,2
7601/400	76010 0010	HME 400	10,2
7601/100/150 HI E27 ZG ^{1) 3) 4)}	76010 0011	HIE 100/150	10,3
7601/100/150 HS ZG ^{1) 4)}	76010 0007	HST/HSE 100/150	10,3
7601/250 HI/HS ZG ^{1) 4)}	76010 0004	HIE/HSE/HIT/HST 250	10,3
7601/400 HI/HS ZG ^{1) 4)}	76010 0005	HIE/HSE/HIT/HST 400 ⁵⁾	10,3
7601/600 HS ZG ^{1) 4)}	76010 0009	HST 600	10,3

1) With ignitor inside the light fitting

2) Uncomp., article nos. for comp. see price list

3) lamp holder E27, alternative lamp holders on request

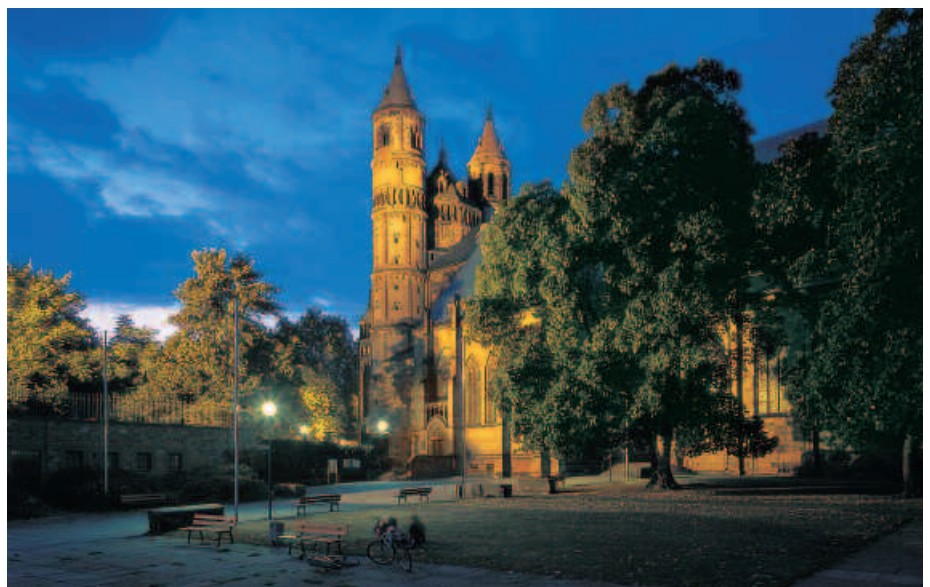
4) We recommend the use of ballasts with timer.

5) If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fitting for higher luminous flux

6) Weights without packing material

Note:

Chokes for high pressure lamp, lamp holder E40, incorporated in separate **ballast box no. 10150... or 1032...** or mounted on **assembly unit no. 10160...** for installation inside poles, see ballast housings and assembly units.



Accessories / Spare Parts

Type	Article no.	
7600	76011 9000	spare front glass with frame

Compact Symmetrical Plane Floodlight for Lamps up to 250W Series 7572 S...



Application:

Illumination of buildings, groups of plants and trees in gardens and parks, sports grounds, playing fields, building sites, industrial areas and stockyards, for security of factory entrances, depots etc.

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035), built-in control gear, wired ready for installation.

Mounting bracket: Infinitely adjustable

Glass: Tempered safety glass without frame, hinged, and with EPDM gasket.

Central locking system: Operated by a 5mm Allen key. Hinges on the opposite

side.

Reflector: Optimized high anodized mirror finish pure aluminium

Connection: 3 pole terminal block up to 4,0 mm².

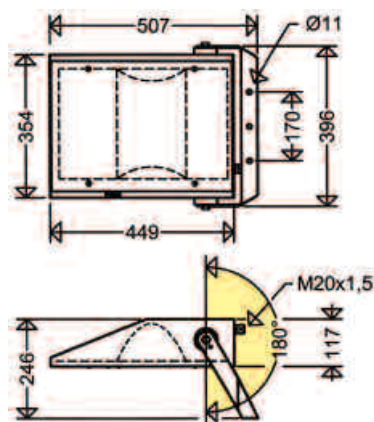
Cable entry: 1 cable gland M20 x 1.5

Mounting:

- **Standing or hanging** (wall, ceiling, ground or pole mounting) using mounting stirrup with 3 holes Ø 11mm
- **Direct mounting** on Ø 60mm or Ø 76mm poles, or on **2 up to 4 arm post top adapters** with carriers Ø 60mm and fixed with pipe clamps. (see accessories / spare parts)

SCHUCH Quality - your advantage:

- robust quality plane floodlight for reliable long-term use
- compact design, complete with all control gear, wired ready for installation
- Original SCHUCH central locking system with internal hinges
- high quality polyester resin coating, especially suited for outdoor applications (excellent UV-resistance, weather-proof and colour stability).
- highly effective, optimized mirror reflector system with a high operation efficiency.
- precise directional light with excellent glare limitation and minimized light scatter
- quick and easy lamp replacement due to central locking system and hinged glass
- universal mounting, also for multiple lamp arrangements

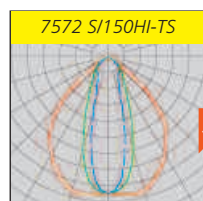


7572 S...

IP65



Wind load area A = 0,05m²



Type	Article no.	Lamps W	Weight ca. kg ⁶⁾
for tungsten halogen, socket E27 or R7s			
7572 S/250 E27	75722 0013	QT32 max. 250	4,3
7572 S/200 R7s	75722 0014	QT-DE12 max. 200	4,3
for high pressure lamps, tubular shape, socket G12, E27 or E40			
7572 S/70 HS	75722 0005 ¹⁾	HST 70	5,8
7572 S/150 HS	75722 0007 ¹⁾	HST 150	6,8
for high pressure double-ended tubular lamps, socket Rx7s or Rx7s-24			
7572 S/70 HI/HS-TS	75722 0009 ¹⁾	HIT/HST-DE 70 ³⁾	5,7
7572 S/150 HI/HS-TS	75722 0011 ¹⁾	HIT/HST-DE 150 ³⁾	6,6
for ceramic burner lamps, socket E27 or E40			
7572 S/70 CE E27 ^{2) 4)}	75722 0015 ¹⁾	HIT-CE 70	5,8
7572 S/100 CE E40 ^{2) 4)}	75722 0019 ¹⁾	HIT-CE 100	6,2
7572 S/150 CE E40 ⁴⁾	75722 0023 ¹⁾	HIT-CE 150	6,8
for ceramic burner lamps, socket Rx7S			
7572 S/70 CE-TS ⁴⁾	75722 0027 ¹⁾	HIT-DE-CE 70	5,7
7572 S/150 CE-TS ⁴⁾	75722 0029 ¹⁾	HIT-DE-CE 150	6,6

1) Uncomp., art. nos. for comp. see price list

2) Alternative lamp holders on request

3) Suitable for insect protection only with HST-lamps

4) Includes ballast with timer

5) We recommend the use of ballasts with timer.

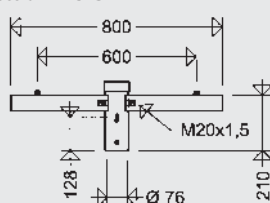
6) Weights without packing material

= suitable for insect protection

Further Series / Versions

- with 2 cable entries (also M25 x 1.5)
- with stainless steel housing, glass pearl blasted
- for higher ambient temperatures
- special paint finish in any RAL colour

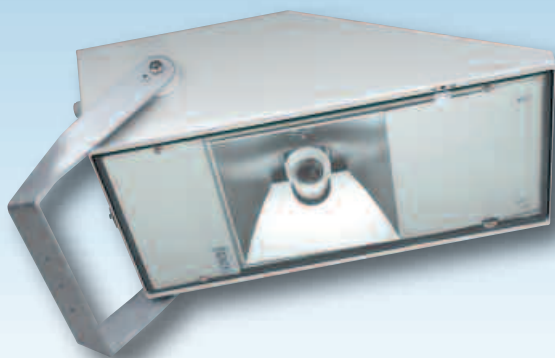
Pole cross arm 7573 TR



Accessories / Spare Parts

Type	Article no.	
7502	75001 9002	spare glass
7502 ZV	75001 9012	spare glass for version with central locking
2561	25610 9000	cable gland M20 x 1.5
7573 TR	75739 0002	pole cross arm with accessories for mounting 2 plane surface floodlights to poles of Ø 76mm
ROB 60/76	90270 0005	pipe clamp for direct pole mounting or on multiple post top adapters

Compact Symmetrical Plane Floodlight for Lamps up to 1000W Series 7573 S...



Application:

Illumination of buildings, groups of plants and trees in gardens and parks, sports grounds, playing fields, building sites, industrial areas and stockyards, for security of factory entrances, depots etc.

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035), built-in control gear, wired ready for installation.

Mounting bracket: Infinitely adjustable

Glass: Tempered safety glass without frame, hinged, and with EPDM gasket.

Central locking system: Operated by a 5mm Allen key. Hinges on the opposite

side.

Reflector: Optimized high anodized mirror finish pure aluminium

Connection: 3 pole terminal block up to 4.0 mm².

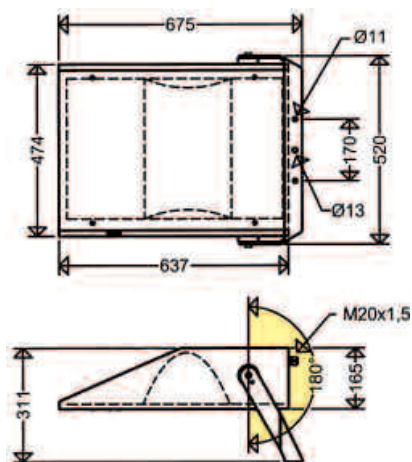
Cable entry: 1 cable gland M20 x 1.5

Mounting:

- **Standing or hanging** (wall, ceiling, ground or pole mounting) using mounting stirrup with 3 holes
- **Direct mounting** on Ø 60mm or Ø 76mm poles, or on **2 up to 4 arm post top adapters** with carriers Ø 60mm and fixed with pipe clamps.

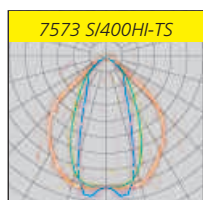
SCHUCH Quality - your advantage:

- robust quality plane floodlight for reliable long-term use
- compact design, complete with all control gear, wired ready for installation
- Original SCHUCH central locking system with internal hinges
- high quality polyester resin coating, especially suited for outdoor applications (excellent UV-resistance, weather-proof and colour stability).
- highly effective, optimized mirror reflector system with a high operation efficiency.
- precise directional light with excellent glare limitation and minimized light scatter
- quick and easy lamp replacement due to central locking system and hinged glass
- universal mounting, also for multiple lamp arrangements
- with special pressure compensation system to avoid internal condensation



Swivel range 180° (infinitely adjustable)

7573 S...



Type	Article no. ¹⁾	Lamps W	luminous flux	Weight ca. kg ⁵⁾
for tungsten halogen, socket E40 or R7s				
7573 S/1000 E40	75732 0015	QT38 max. 1000	24.000	11,6
7573 S/1000 R7s	75732 0016	QT-DE12 max. 1000	22.000	11,6
for high pressure lamps, tubular shape, socket E40				
7573 S/250 HI/HS ^{2) 3)}	75732 0001	HIT/HST 250	20.000/27.000	14,0
7573 S/400 HI ^{2) 4)}	75732 0003	HIT 400	25.000	14,0
7573 S/400 HS ²⁾	75732 0005	HST 400	48.000	15,1
for high pressure double-ended tubular lamps, socket FC2				
7573 S/250 HI-TS ²⁾	75732 0007	HIT-DE 250	20.000	13,2
7573 S/400 HI-TS ^{2) 4)}	75732 0009	HIT-DE 400	28.000	13,2
7573 S/250 HS-TS ²⁾	75732 0011	HST-DE 250	25.500	13,2
7573 S/400 HS-TS ²⁾	75732 0013	HST-DE 400	48.000	14,3

1) Uncomp., art. nos. for comp. see price list

2) We recommend the use of ballasts with timer.

3) Suitable for insect protection with HST 250

4) If metal halide lamp to be used is suitable for

5) = suitable for insect protection

operating with HS ballast please select HS light fitting for higher luminous flux

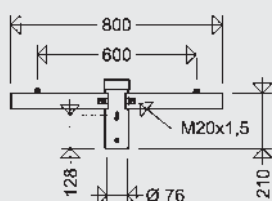
5) Weights without packing material



Further Series / Equipment

- with 2 cable entries
- with entries M25 x 1.5
- with light output reduction device
- with stainless steel housing, glass pearl blasted
- for higher ambient temperatures
- special paint finish in any RAL colour

Pole cross arm 7573 TR



Accessories / Spare Parts

Type	Article no.	
7501	75001 9001	spare glass
7501 ZV	75001 9011	spare glass for version with central locking
2561	25610 9000	cable gland M20 x 1.5
7573 TR	75739 0002	pole cross arm with accessories for mounting 2 plane surface floodlights to poles of Ø 76mm
ROB 60/76	90270 0005	pipe clamp for direct pole mounting or on multiple post top adapters

Symmetrical Floodlight for lamps up to 1000 W Series 7560/7660...



Application:

Illumination of buildings, groups of plants and trees in gardens and parks, sports or spare time grounds, industrial areas, factory entrances, depots and stockyards; crane systems (with vibration absorbing suspension device). Also suitable for indoor installations where there are high ceilings, i.e. gymnasiums and multi-purpose halls.

Design:

Housing: Sturdy Silumin sheet with integrated venting system, powder coated in light grey (RAL 7035), alternatively in stainless steel.

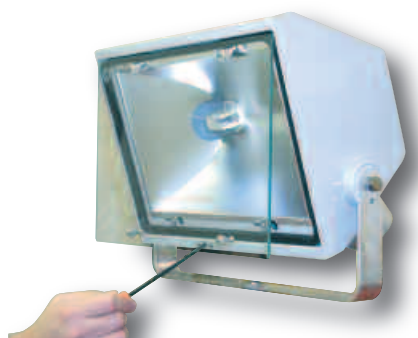
Glass pane: Frameless safety glass pane, hinged, with silicone rubber gasket.

Central locking system: Operated by a 6mm allen key. Hinges on the opposite side.

Reflector: Surface finished purest aluminium.

Connection: External connecting box made from die cast silumin with 1 gland M20 x 1,5.

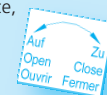
Mounting: Bracket with 3 borings Ø 11mm. Vertically and horizontally infinitely adjustable.



Fast and easy lamp replacement due to central locking system.

SCHUCH Quality - your advantage:

- robust industrial product for reliable long-term use
  - corrosion-free silumin-housing (stainless steel version upon request). High quality coating based on polyester resin, especially suited for outdoor applications (outstanding UV-resistance, weather-proof and dimensionally stable)
  - frameless safety glass pane
  - Original SCHUCH central locking system with internal hinges
  - safe operation due to special venting system to avoid internal condensation
- easy to install and to maintain
  - fast and easy connection due to external connection box
  - fast and easy lamp replacement due to central locking system and hinged glass pane
  - universal mounting with big swivel range
- light technically optimized mirror system made from purest aluminium for a variety of lighting applications

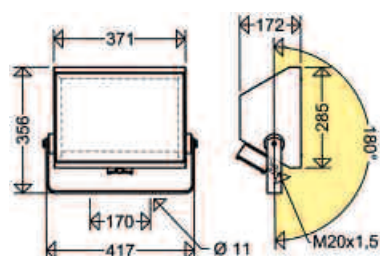


7560...

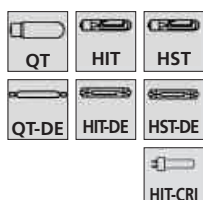
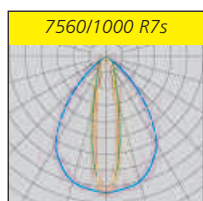
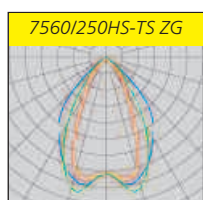
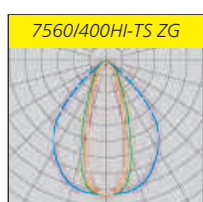
IP65



Wind load area A = 0,1m²



Swivel range 180°



Type	Article no.	Lamps W	Weight ca. kg ⁷⁾
for tungsten halogen lamps, socket E27, E40 or R7s			
7560/250 E27	75602 0001	QT32 75-250	3,7
7560/500 E40	75602 0022	QT38 500	3,8
7560/500 R7s	75602 0003	QT-DE12 150-500	3,7
7560/1000 R7s	75602 0004	QT-DE12 750-1000	3,7
for high pressure lamps, tubular shape, socket E27, G12 or E40			
7560/70 HI-T E27 ^{2) 4) 6)}	75602 0005 ¹⁾	HIT-CRI 70	5,1
7560/70 HS-T ^{2) 6)}	75602 0007 ¹⁾	HST 70	5,1
7560/150 HI G12 ZG ^{3) 4) 6)}	75602 0018	HIT-CRI 150	4,2
7560/150 HS ZG ^{3) 6)}	75602 0019	HST 150	4,3
7560/250 HI/HS ZG ^{3) 6)}	75602 0010	HIT/HST 250	4,3
for high pressure double-ended tubular lamps, socket Rx7s or Fc2			
7560/70 HI-TS ^{2) 6)}	75602 0011 ¹⁾	HIT-DE 70	5,1
7560/70 HS-TS ^{2) 6)}	75602 0015 ¹⁾	HST-DE 70	5,1
7560/150 HI-TS ZG ^{3) 6)}	75602 0020	HIT-DE 150	4,3
7560/150 HS-TS ZG ^{3) 6)}	75602 0021	HST-DE 150	4,3
7560/250 HI-TS ZG ^{3) 6)}	75602 0013	HIT-DE 250	4,3
7560/250 HS-TS ZG ^{3) 6)}	75602 0017	HST-DE 250	4,3
7560/400 HI/HS-TS ZG ^{3) 6)}	75602 0014	HIT/HST-DE 400 ⁵⁾	4,3

1) Uncomp., article nos. for comp. see price list

2) integrated ballast and ignitor

3) without ballast but with ignitor

4) Alternative lamp holders on request

5) If the destined HI lamp can be used with HS-ballasts please select ballast box with HS-ballast for higher luminous flux

6) We recommend the use of ballasts with timer.

7) Weights without packing material

= suitable for insect protection

Note: For types 7560... ZG ballasts are located in separate ballast boxes 10150... or they are supplied as separate assembly units 10160/10161... for installation inside poles - see ballast housings and terminal boxes.

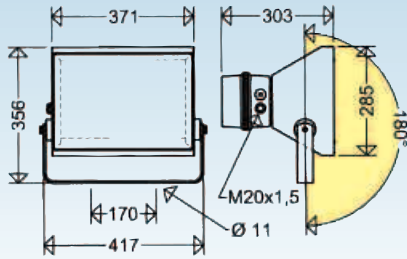
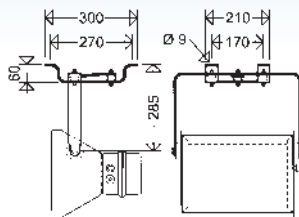
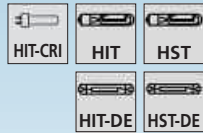
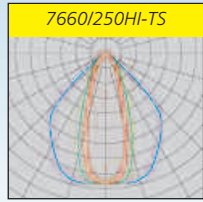
7660...

with attached ballast box no 10150... including ignitor

IP65



Wind load
area
A = 0,1m



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁵⁾
for high pressure lamps, tubular shape, socket G12 or E40			
7660/150 HI G12 ^{3) 4)}	76600 0001	HIT-CRI 150	7,3
7660/150 HS ⁴⁾	76600 0013	HST 150	7,4
7660/250 HI/HS ⁴⁾	76600 0003	HIT/HST 250	9,4

for high pressure double-ended tubular lamps, socket Rx7s or Fc 2			
7660/150 HI-TS ⁴⁾	76600 0015	HIT-DE 150	7,9
7660/150 HS-TS ⁴⁾	76600 0017	HST-DE 150	7,9
7660/250 HI-TS ⁴⁾	76600 0005	HIT-DE 250	9,3
7660/250 HS-TS ⁴⁾	76600 0007	HST-DE 250	9,3
7660/400 HI-TS ^{2) 4)}	76600 0009	HIT-DE 400	10,1
7660/400 HS-TS ⁴⁾	76600 0011	HST-DE 400	10,5

- 1) Uncomp., article nos. for comp. see price list
2) If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fitting for higher luminous flux
3) Alternative lamp holders on request
4) We recommend the use of ballasts with timer.
5) Weights without packing material

Further Series / Equipment

- with vibration absorbing suspension device
- with wide beam mirror type reflector (SB)
- mobile Ausführung mit Tragegriffen
- housing made from stainless steel, painted
- connecting box with 2nd gland M20 x 1,5
- special paint finish in any RAL colour

3-point mounted vibration absorbing suspension device (SD)

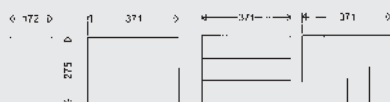
operation in areas with heavy vibrations such as crane systems, squeezers etc.



Screening devices

7560 BL 4

7560 BL 4 RH / RV



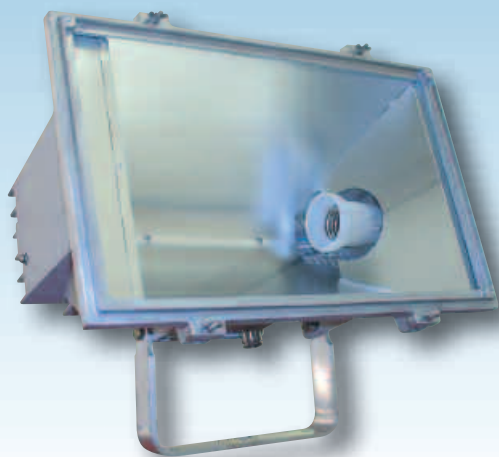
7560 BL 3

7560 BL 3 RH / RV



Accessories / Spare Parts

Type	Article no.	
7541	90267 9000	spare safety glass
SD 7560 V	75350 0013	3-point mounted vibration absorbing suspension device with extended mounting stirrup for all types
SD 7560 V NS	75350 0023	vibration absorbing suspension device for later installation
2561	25610 9000	plastic cable gland M20x1,5
Screening devices for series 7560		
7560 BL 4	90267 0001	on 4 sides
7560 BL 4 RH	90267 0002	on 4 sides with horizontal louver
7560 BL 4 RV	90267 0003	on 4 sides with vertical louver
7560 BL 3	90267 0004	on 3 sides
7560 BL 3 RH	90267 0005	on 3 sides with horizontal louver
7560 BL 3 RV	90267 0006	on 3 sides with vertical louver



Symmetrical Floodlight for Lamps up to 1500 W Series 7557/7567...

Application:

Illumination of buildings, groups of plants and trees in gardens and parks, sports grounds, playing fields, building sites, industrial areas, heavy industrial equipment on sites, factory entrances, depots and stockyards; crane systems (with vibration absorbing suspension). Also suitable for indoor installations with high ceilings, e.g. gymnasiums and multi-purpose halls.

Design:

Housing: Silumin casting.

Reflector: High anodized mirror finish pure aluminium.

Glass: Single safety glass pane stuck in a Silumin cast frame.

Fasteners: Hinge-screws.

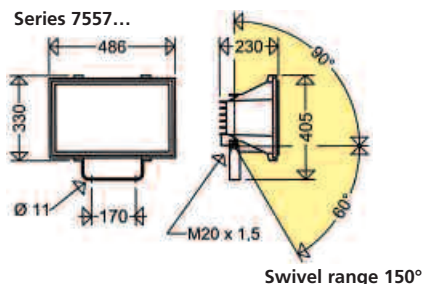
Connection: Silumin cast enclosure box with 1 cable gland M20 x 1.5, surcharge for additional entry.

Mounting: Stirrup with 1 central and 2 spaced at 170mm holes Ø 11mm. Adjustable vertically and horizontally.

SCHUCH Quality - your advantage::

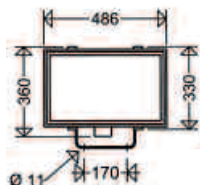
- tough floodlight with solid silumin cast housing
- compact design, some versions complete with all necessary electrical gear and fully wired
- optimized mirror system made from pure aluminium for a variety of lamps and lighting applications
- tool-free lamp change due to hinged glass with hinge-screw fasteners

Series 7557...

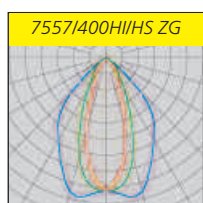
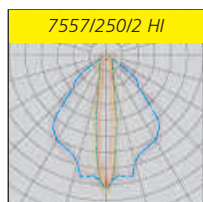


Swivel range 150°

Series 7557... ZG



7557...



Type	Article no.	Lamps W	Weight ca. kg ³⁾
for tungsten halogen, socket R7s			
7557/1500 R7s	75570 0003	QT-DE12 1500	8,4
for high pressure lamps, tubular shape, socket G12 bzw. E40			
7557/250/2 HI ZG ²⁾	75570 0009	2 x HIT-CRI 250	9,6
7557/400 HI/HS ZG ^{1) 2)}	75570 0002	HIT/HST 400	9,2

1) If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fitting for higher luminous flux

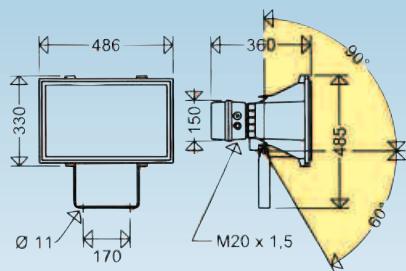
2) We recommend the use of ballasts with timer.

3) Weights without packing material

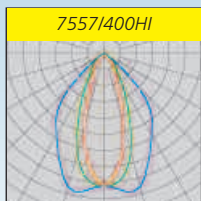
Note:

For series 7560.. ZG the ballast is built into separate [ballast housing 10150...](#) or on [sub-assembly 10160/10161...](#) for installation inside poles. (see ballast housings and terminal boxes)





7567...



Type	Article no. ¹⁾	Lamps W	Weight ca. kg ⁴⁾

for high pressure lamps, tubular shape, socket E40

7567/400 HI ³⁾	75571 0003	HIT 400 ²⁾	14,2
7567/400 HS ³⁾	75571 0001	HST 400	15,7

1) Uncomp., art. nos. for comp. see price list

2) If metal halide lamp to be used is suitable for operating with HS ballast please select HS light fitting for higher luminous flux

3) We recommend the use of ballasts with timer.

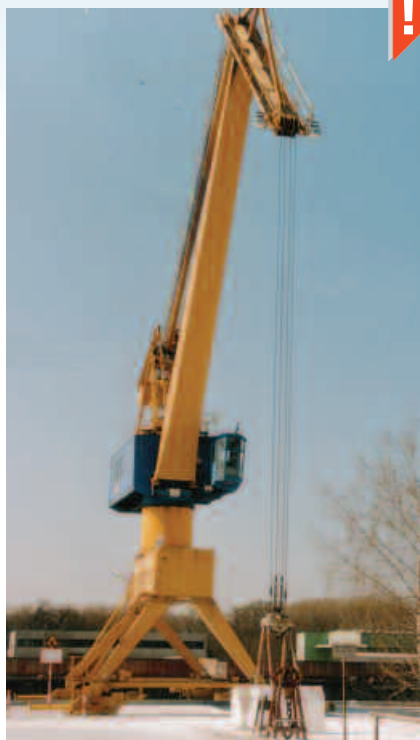
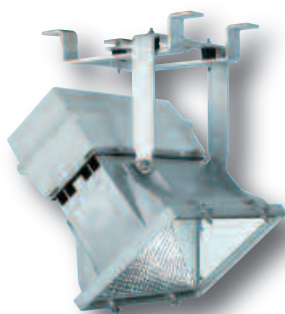
4) Weights without packing material



Further Series / Equipment

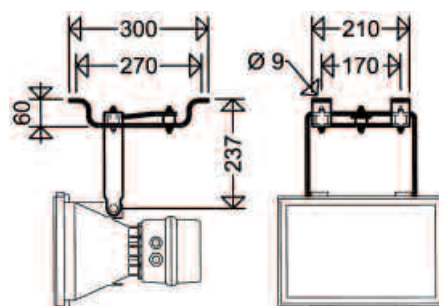
- with vibration absorbing suspension (7556/57 SD with extended stirrup, see photo)
- for instant re-strike (version ...SW)
- for low pressure sodium vapour lamps LST 18-55 W

- special version for sandblast cabins (version 7557...SSK, see capital „Industrial lighting“)



Floodlight with 3 - point vibration absorbing suspension (SD),

for applications with heavy shocks or vibration (e.g. installation on cranes, presses etc.).



Screens / Shades

7557 BL 4

7557 BL 4 RH / RV



7557 BL 3

7557 BL 3 RH / RV



Accessories / Spare Parts

Type	Article no.	
Spare safety glass		
7538	75380 9000	without frame for 7557
7539	75390 9000	with frame for 7557
Vibration absorbing suspension		
SD 7557/67 V	75350 0011	3-point mounted vibration absorbing suspension for all types.
SD 7557/67 V NS	75350 0021	vibration absorbing suspension for later installation
Screens / Shades		
7557 BL 4	75579 0001	on 4 sides
7557 BL 4 RH	75579 0002	on 4 sides with horizontal louver
7557 BL 4 RV	75579 0003	on 4 sides with vertical louver
7557 BL 3	75579 0004	on 3 sides
7557 BL 3 RH	75579 0005	on 3 sides with horizontal louver
7557 BL 3 RV	75579 0006	on 3 sides with vertical louver



Symmetrical Beam Floodlights for Lamps up to 1500 W Series 7562...

Application:

Industrial and storage areas, open spaces, small sport grounds and playing fields, building sites, airfield aprons, building illumination etc.

Design:

Housing: Silumin sheet with integrated venting system, powder coated in light grey (RAL 7035).

Glass: Safety glass, silicone gasket.

Reflector: High anodized mirror finish pure aluminium

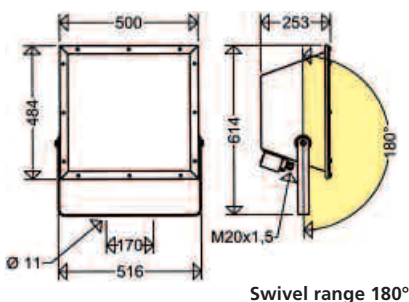
Connection: External cast silumin terminal box with 1 cable gland M20 x 1.5.

Lamp replacement: Simply through side cover of the floodlight housing.

Mounting system: Stirrup with 1 central and 2 spaced at 170mm holes Ø 11mm. Infinitely adjustable, swivel range 180°.

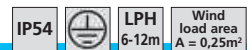
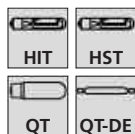
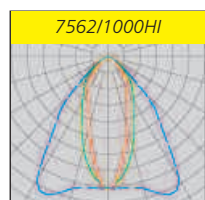
SCHUCH Quality - your advantage:

- robust quality product for reliable long-term use
- corrosion resistant silumin plate housing, with high quality polyester resin coating, suited especially for outdoor applications (excellent UV-resistance, weather-proof and colour stability).
- optimized reflector system with a high lamp efficiency
- tool-free lamp change through side housing cover
- safe operation due to special venting system to avoid internal condensation



Swivel range 180°

7562...



Type	Article no.	Lamps W	Weight ca. kg ³⁾
for halogen - incandescent lamps, socket E40 or R7s			
7562/1000 E40	75620 0007	QT38 1000	24.000
7562/1500 R7s	75620 0015	QT-DE12 1500	33.000-36.300
for high pressure lamps, tubular shape, socket E40 with built-on ignitor, without ballast			
7562/400 HI/HS ZG	75620 0011	HIT/HST 400	35.000-56.500
7562/600 HS ZG ²⁾	75620 0001	HST 600	90.000
7562/1000 HI/HS ZG ²⁾	75620 0002	HIT/HST 1000 ¹⁾	80.000/130.000
for high pressure double-ended tubular lamps, cable with built-on ignitor, without ballast			
7562/1000 HI-TS ZG ²⁾	75620 0008	HIT-DE 1000	90.000

1) Suitable for insect protection only with HST-lamps

2) We recommend the use of ballasts with timer.
3) Weights without packing material

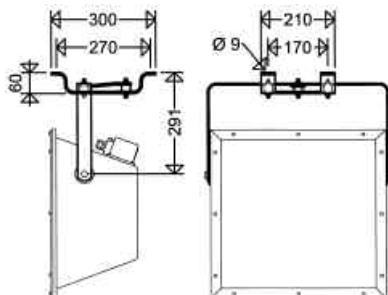
= suitable for insect protection

Note: Ballast is built into separate ballast housing 10150... or 1032..., or on sub-assembly for installation inside poles 10160/10161... (see ballast housings and terminal boxes).

Further Series / Equipment

- with vibration absorbing suspension (SD)
- special paint finish in any RAL colour
- mobile Ausführung mit Tragegriffen

with vibration absorbing suspension (SD)



3-point mounted vibration absorbing suspension device (SD)

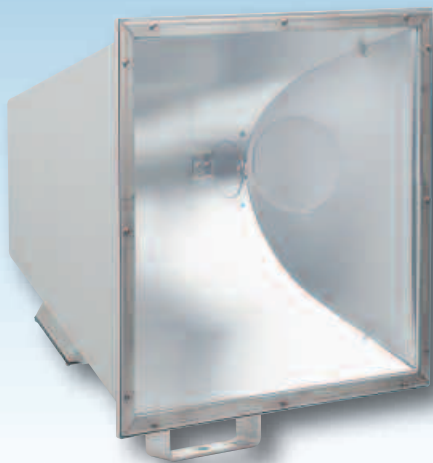
operation in areas with heavy vibrations such as crane systems, squeezers etc.

Accessories / Spare Parts

Type	Article no.	
7507	75070 9000	spare glass
2561	25610 9000	plastic cable gland M20 x 1,5
SD 7562 V	75350 0012	3-point mounted vibration absorbing suspension, zinc-plated steel
SD 7562 V NS	75350 0022	vibration absorbing suspension for later installation



Floodlights for Lamps up to 2000 W Series 7564...



Applications:

Illumination of any kind of sports fields, sports training areas and any spare time areas; industrial areas, stockyards, building sites, airfield aprons etc.

Design:

Housing: Silumin sheet, powder coated in light grey (RAL 7035).

Glass: Safety glass pane, silicone gasket.

Mirror reflector system: Surface refined purest aluminium.

Connection: External connection box from cast silumin with 1 cable gland of size M20 x 1,5.

Lamp replacement: Very easy by lateral cover in the floodlight housing.

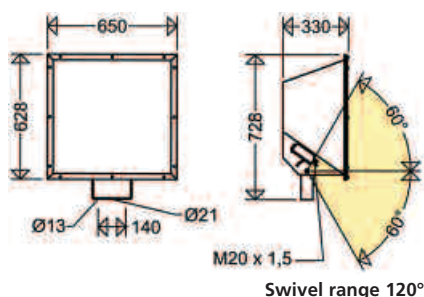
Mounting system: Stirrup with 1 central boring of a 21mm Ø and 2 borings of a 13mm Ø at a distance of 140 mm. Inclination in steps of 5°.

Range of swivelling movement of the bracket: ± 60°.

SCHUCH Quality - your advantage:

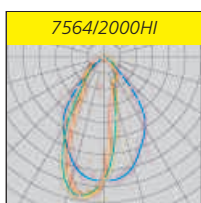
See Series 7562...

The qualities stated there also apply without limitation for the series Series 7564...



7564...

symmetrical luminous radiation; light scattering



for high pressure lamps, tubular shape, lampholder E40, with attached ignitor, without ballast

Type	Article no.	Lamps W	Luminous flux	Weight ca. kg ⁴⁾
7564/1000 HI/HS ZG ³⁾	75640 0001	HIT/HST 1000	80.000/130.000	17,8
7564/2000 HI ZG ^{1) 3)}	75640 0004	HIT 2000	170.000	17,8
..., neither ballast, nor ignitor				
7564/2000 HI ²⁾	75640 0003	HIT 2000	170.000	17,2

1) For lamps to operate with ignitor, e.g. OSRAM HQI-T 2000/D (10.3A) and HQI-T 2000/N/E SUPER (8.8 A)

3) We recommend the use of ballasts with timer.

2) For lamps to operate without ignitor, e.g. OSRAM HQI-T 2000/N (8.8 A) and HQI-T 2000/D/I (10.3A)

4) Weights without packing material

Note: Ballast is built into separate ballast housing 1032..., or on sub-assembly for installation inside poles 10160/10161... (see ballast housings and terminal boxes)



Accessories / Spare Parts

Type	Article no.	
7509	90112 9000	Spare glass 610 x 590 fixed by screws (from 1996 onwards)
Screening		
756 RH	75600 0001	louver (Alu) with horizontal grids for intensive upward screening
756 RV	75601 0001	louver (Alu) with vertical grids for intensive lateral screening





Polyester Ballast Housings up to 400W Series 10150...

Application: Spotlights series 7601, 7557...
Floodlight series 7560, 7562...

Design:

Housing: Glass fibre reinforced polyester resin with built-in ballast, capacitor and, if required, ignitors. Standard version with 2 plastic cable glands M20 x 1.5.

Mounting: 2 bolts max. Ø 6mm (not included in the scope of delivery).

The thrust and sealing washers supplied shall be used for sealing.

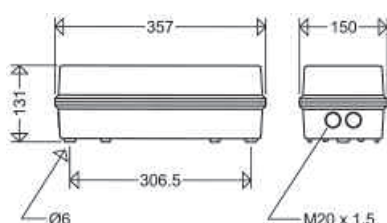
Note:

In the case of ballast housings with built-in ignitor, to insure ignition, the cable length between lamp and ignitor must not exceed 1m.

10150...



for 400 W lamps max.



Type	Article no. ¹⁾	Weight ca. kg ³⁾	Type	Article no. ¹⁾	Weight ca. kg ³⁾
without ignitor, for high pressure lamps			with ignitor, for high pressure lamps		
10150/250	10150 0004	3,9	10150/250 HI/HS ZG ²⁾	10150 0008	5,0
10150/400	10150 0006	4,9	10150/400 HI ZG ²⁾	10150 0012	5,0
10150/250 HI/HS	10150 0010	4,9	10150/400 HS ZG ²⁾	10150 0016	6,1
10150/400 HI	10150 0014	4,9			
10150/100 HS	10150 0022	2,9			
10150/150 HS	10150 0020	3,9			
10150/400 HS	10150 0018	6,0			

1) Comp., article nos. for uncom. see price list
2) We recommend the use of ballasts with timer.
3) Weights without packing material

Sheet Steel Ballast Housings up to 2000W Series 1032...

Application: Spotlight series 7601...

Floodlight series 7562/7564... and
Plane surface projector 7574/7575...



Design:

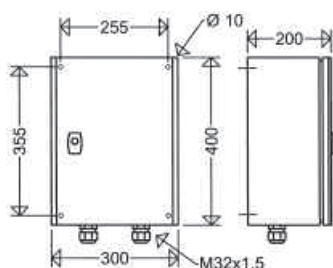
Housing: Sheet steel, powder coated light grey (RAL 7032), with built-in ballast, capacitor, and, if required, ignitors. Standard version with 2 cable glands M32 x 1,5. Handle detachable.

Mounting: 4 holes 10mm Ø on rear of housing.

Note:

In the case of ballast housings with built-in ignitor, to insure ignition, the cable length between lamp and ignitor must not exceed 1m.

1032...



Type	Article no. ¹⁾	Weight ca. kg ⁶⁾	Type	Article no. ¹⁾	Weight ca. kg ⁶⁾
without ignitor, for high pressure lamps			with ignitor, for high pressure lamps		
1032/700	10320 0002	10,5	1032/1000 HI ZG ³⁾	10320 0006	18,9
1032/1000	10320 0004	13,4	1032/600 HS ZG ³⁾	10320 0020	13,4
1032/1000 HI	10320 0014	18,6	1032/1000 HS ZG ³⁾	10320 0008	18,9
1032/2000 HI 8,8 ^{2) 4)}	10320 0010	19,6			
1032/2000 HI 10,3 ^{2) 5)}	10320 0012	16,3			
1032/600 HS	10320 0018	13,1			
1032/1000 HS	10320 0016	18,6			

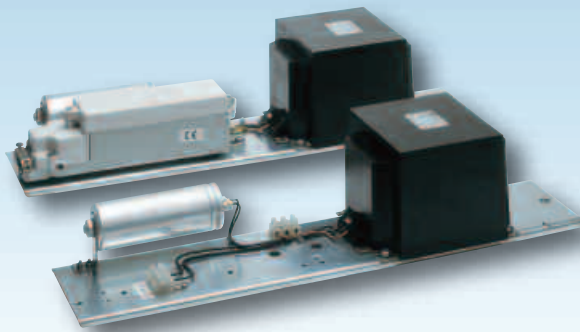
1) Comp., article nos. for uncom. version see price list
2) Mains voltage 400 V
3) We recommend the use of ballasts with timer.
4) For lamps of colour reproduction level 2
5) For lamps of colour reproduction level 1
6) Weights without packing material

Assembly Unit for Installation Inside Poles Series 10160/10161...

Application: Floodlights of Series 7601/7556/7557...

Floodlights of Series 7564...

Plane Surface Floodlights of Series 7574...



Design:

10160...

Bottom plate made from galvanized sheet steel with cable terminal box, ballast, condenser and connection terminal, wired ready for installation.

10161...

same as 10160... however without cable terminal box, fuse protection at site.

Mounting:

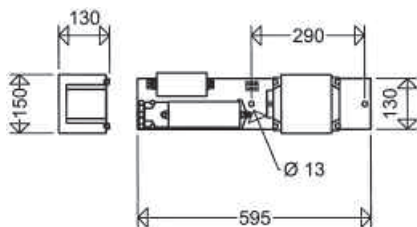
2 borings of Ø 13mm

10 160...

for 2000 W lamps max



series 10160...



Type	Article no. ¹⁾	Weight ca. kg ³⁾
with cable terminal box <u>without</u> ignitor, for high pressure lamps		
10 160/250 HI/HS	10160 0001	6,5
10 160/250/2 HI/HS	10160 0002	10,7
10 160/400 HS	10160 0005	7,6
10 160/400/2 HS	10160 0009	12,9
10 160/600 HS	10160 0012	10,2
10 160/1000 HI	10160 0010	16,4
10 160/1000 HS	10160 0011	16,4
10 160/2000 HI 8,8 ^{2) 4)}	10160 0007	16,4
10 160/2000 HI 10,3 ^{2) 5)}	10160 0008	22,7

1) Compensated

2) Supply voltage 400 V

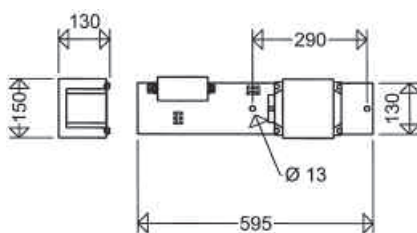
3) Weights without packing material

10 161...

for 2000 W lamps max



series 10161...



Type	Article no. ¹⁾	Weight ca. kg ³⁾
<u>without</u> cable terminal box <u>without</u> ignitor, for high pressure lamps		
10 161/250 HI/HS	10161 0001	5,8
10 161/250/2 HI/HS	10161 0002	10,0
10 161/400 HS	10161 0005	6,9
10 161/400/2 HS	10161 0009	12,2
10 161/600 HS	10161 0012	9,5
10 161/1000 HI	10161 0010	15,7
10 161/1000 HS	10161 0011	15,7
10 161/2000 HI 8,8 ^{2) 4)}	10161 0007	15,9
10 161/2000 HI 10,3 ^{2) 5)}	10161 0008	22,0

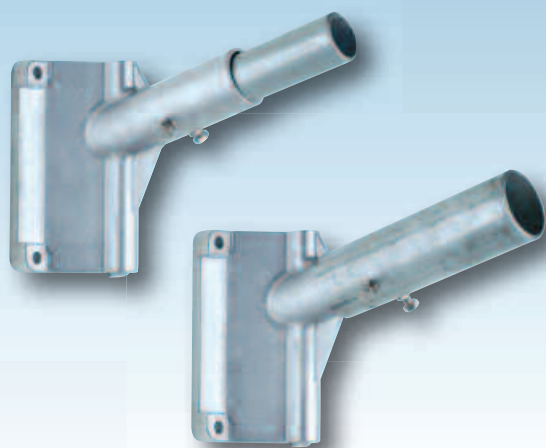
1) Compensated

2) Supply voltage 400 V

3) Weights without packing material

Cast Aluminium Multi-Purpose Pole Arm Carrier Series 4860 – 4864

Application: Series 35, 36, 41, 43, 44, 46, 53, 287



Application:

For mounting outdoor light fittings on flat walls and corners of buildings.

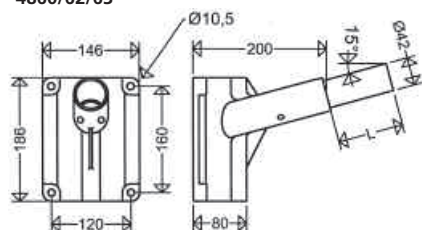
Design:

Aluminium casting: Natural finish, with four fixing holes $\varnothing 10,5\text{mm}$, and carrier shaft for galvanized steel pole arms.

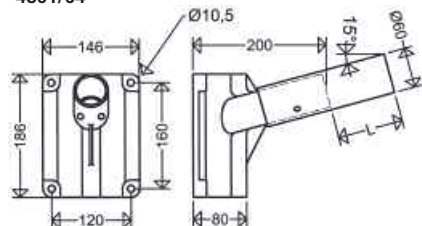
Pole arm: $\varnothing 42\text{mm}$ (100, 250, or 400mm long), or $\varnothing 60\text{mm}$ (100 or 250mm long), with 2 fixing screws M8

Pole arm assembly: The $\varnothing 42\text{mm}$ pole arm is pushed into the carrier shaft, the $\varnothing 60\text{mm}$ pole arm is slipped over the carrier shaft. The pole arm is secured with 2 screws M8 (included in supply).

4860/62/63



4861/64



4860 - 4864

Type	Article no.	D	L	Weight ca. kg
4860	48600 0001	42	100	1,4
4861	48600 0002	60	100	1,7
4862	48600 0003	42	250	1,9
4863	48600 0004	42	400	2,3
4864	48600 0005	60	250	2,5

Welded Aluminium Standard Pole Arm Carrier Series 4870 / 4871

Application: Series 35, 36, 41, 43, 44, 46, 53



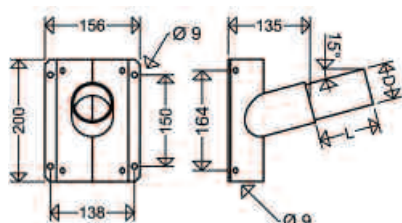
Application:

For mounting outdoor light fittings on flat walls and corners of buildings.

Design:

Aluminium plate: 4 mm thick, powder coated (RAL 7035), with eight fixing holes $\varnothing 9\text{mm}$, and carrier shaft for galvanized steel pole arms.

Pole arm: $\varnothing 42\text{mm}$ (100mm long), or $\varnothing 60\text{mm}$ (100mm long), with 1 fixing screw M8 (included in supply).



4870 / 4871

Type	Article no.	D	L	Weight ca. kg
4870	48700 0001	42	100	1,1
4871	48700 0002	60	100	1,2

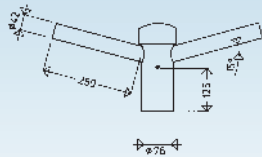
Post-Top Brackets, Reducing Adapters, Tubular and Wall Brackets

All post-top and wall brackets with the exception of the aluminium tubular brackets are made from stainless steel, glass pearl treated. Powder coating in any RAL colour is possible at extra charge.

Type	Article no.	Description	Weight ca. kg	for following light fittings

Post-top brackets

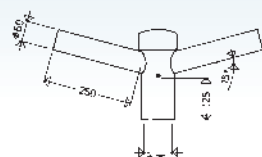
600/1	60099 0001	for 1 fitting	3,2	35, 36, 41, 43, 44, 287 020
600/2	60099 0002	for 2 fittings	4,0	
600/3	60099 0003	for 3 fittings	4,8	
600/4	60099 0004	for 4 fittings	5,6	



with brackets 500 mm upon request

Post-top brackets

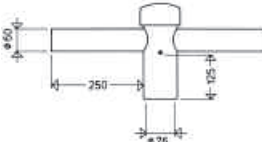
601/1	60199 0001	for 1 fitting	3,7	35, 36, 44, 7573 with RO 60/76
601/2	60199 0002	for 2 fittings	5,1	
601/3	60199 0003	for 3 fittings	6,5	
601/4	60199 0004	for 4 fittings	7,9	



with brackets 500 mm upon request

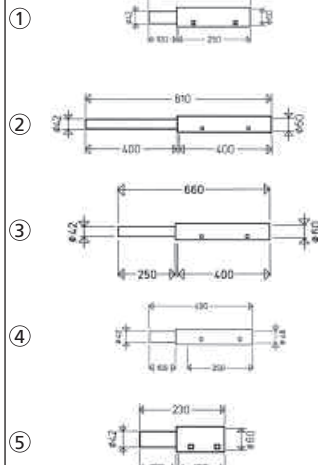
Post-top brackets

610/1	61099 0001	for 1 fitting	3,7	35 A, 35 B, 44 A, 7573 with RO 60/76
610/2	61099 0002	for 2 fittings	5,1	
610/3	61099 0003	for 3 fittings	6,5	
610/4	61099 0004	for 4 fittings	7,9	



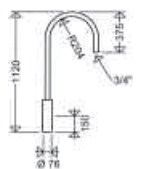
Reducers

603 (60/42)	60399 0001	①	2,4	35, 36, 41, 43, 44
604 (60/42)	60499 0001	②	4,0	287
605 (60/42)	60599 0001	③	3,5	287 (20W)
606 (48/42)	60699 0001	④	2,8	35, 36, 41, 43, 44, 46
607 (60/42)	60799 0001	⑤	1,6	41, 43



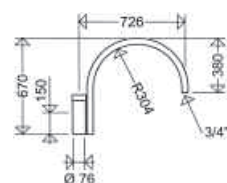
Round arch post-top adaptor

619/1	61999 0001	8,8	564, 565



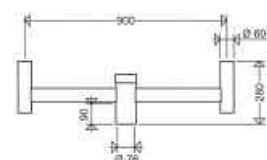
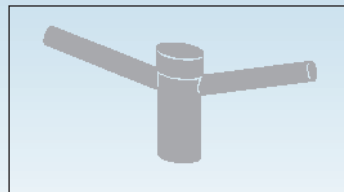
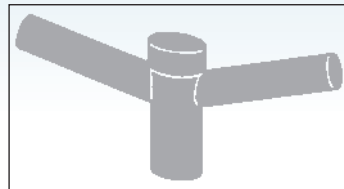
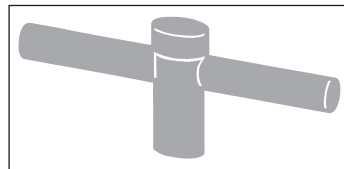
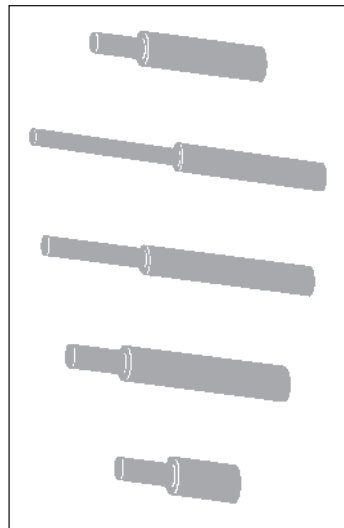
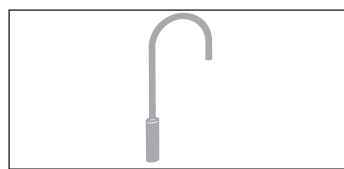
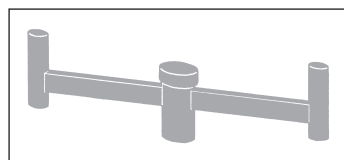
Post-top

622/1	62299 0001	Einfachaufsatz	7,2	564, 565



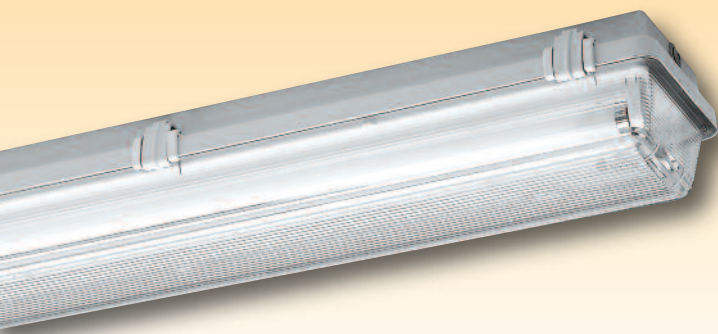
Post-top

625/1	62599 0001	Einfachaufsatz	4,6	541, 542, 543, 554, 555 (in combination with RZ 1), 43, 44
625/2	62599 0002	Doppelaufsatz	7,0	



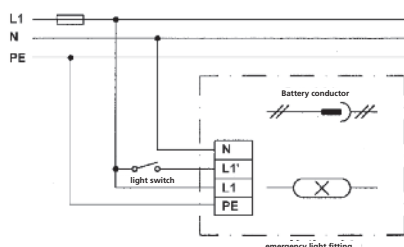
NEW
Insulation class I

Polyester Damp Room Emergency Light Fittings Series 161/162...

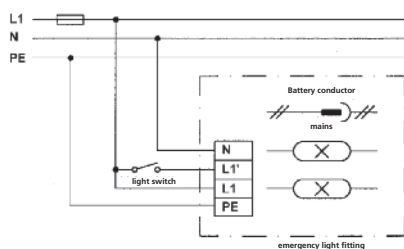


Shock resistance test: RK 1,6 / 16A

Wiring diagram 161... maintained operation



Wiring diagram 162... maintained operation



Starting: Connect battery conductor

Out of operation: Disconnect battery conductor

Stand-by operation: Do not connect L1'

Application:

For illumination of working places and acc. to DIN V VDE V0108-100 and EN 1838 for illuminating and identifying escape routes etc.

Mechanical Design:

Housing: Glass fibre reinforced polyester resin, foamed polyurethane gasket.

Diffuser: Injected clear acrylic glass or polycarbonate (PC) each with internal prisms.

Closure: Three-part captive plastic clips (KK). - Stainless steel clips (KE) or a combination plastic/stainless steel (KC) or one-sided stainless steel hinges are also

available at extra charge.

Reflector: White sheet steel hingeable, carrying the electrical components.

Connection: 4-pole plug-in terminal.

Cable entry: 2 plugs M20.

Through wiring system: Up to 5x2,5mm² (extra charge).

Mounting system: „Closed“ knock-outs for direct ceiling mounting, rubber sealing washers inside each fitting.

Electrical Design:

Incorporated NiCd battery set which is constantly charged and therefore ready for operation any time.

Visual monitoring the battery charging process through LED.

Electronic deep discharge protection.

Re-charging time: 24 hours acc. to EN 60598-2-22.

Modes of operation:

Maintained operation = in case of mains failure 1 lamp is switched over to battery operation. In the 2-lamp version (type 162...) only one lamp will be operating as emergency lighting.

Connection voltage: 230V, 50Hz (standard)

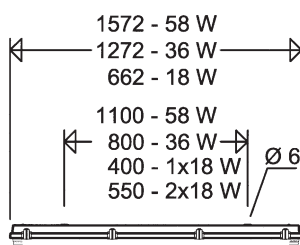
Admissible Ambient temperatures:

-5°C up to +30°C (maintained version)

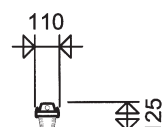
-5°C up to +40°C (stand-by version)

SCHUCH quality - your advantage:

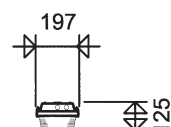
- high grade, robust, chemically resistant light fitting of an excellent quality; especially suitable for its application at a rough industrial environment:
  - housing made from glass fibre reinforced polyester resin of a high impact resistance (wall thickness: 2mm); outstanding chemical- and UV-resistance.
  - housing with 3 mounting points, especially suited for areas with a risk of shocks and vibrations e.g. power plants, boiler- or turbine rooms
  - injected PMMA diffuser of a high mechanical stability (quadruple safety due to impact resisting component. Wall thickness: 1,9mm). Excellent chemical resistance.
  - alternative: injected PC diffuser of a very high impact resistance (16 Nm) even at a high continuous temperature
- best suitable for easy mounting and maintenance purpose with a high security of continuous operation:
  - tiltable cover allows a quick and easy lamp replacement without any tools
  - captive clips consisting of several components made from high grade POM (standard) or stainless steel in case of aggressive ambient conditions (also available with hinges)
  - cost-efficient loop-in/loop-out facility
- ready for operation at any time due to permanent conservation charging
- optical indication via LED
- electronic deep discharge protection



Series 161...

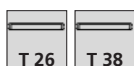
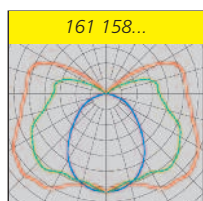


Series 162...



161/162.../I/..

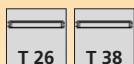
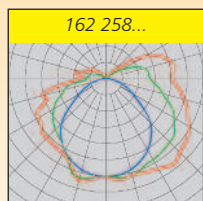
with self-contained battery



Type	Article no.	Lamps W	Flux factor ca. %	Weight ca. kg ⁵⁾
1 h operation time ¹⁾, with conventional ballasts				
161 136/I/18/1 ⁴⁾	16110 0509	1 x T 26/36 W	18	4,1
161 136/I/34/1	16110 0525	1 x T 26/36 W	34	4,4
161 158/I/15/1 ⁴⁾	16110 0510	1 x T 26/58 W	15	4,6
161 158/I/22/1	16110 0526	1 x T 26/58 W	22	4,9
162 218/I/25/1 ^{3) 4)}	16210 0548	2 x T 26/18 W	25	3,3
162 218/I/65/1	16210 0583	2 x T 26/18 W	65	3,7
162 236/I/18/1 ^{3) 4)}	16210 0551	2 x T 26/36 W	18	5,3
162 236/I/34/1	16210 0584	2 x T 26/36 W	34	7,0
162 236/I/55/1	16210 0685	2 x T 26/36 W	55	7,7
162 258/I/15/1 ^{3) 4)}	16210 0554	2 x T 26/58 W	15	7,2
162 258/I/22/1	16210 0586	2 x T 26/58 W	22	7,5
162 258/I/32/1	16210 0687	2 x T 26/58 W	32	7,7

161/162.../I/... EVG

with self-contained battery



Type	Article no.	Lamps W	Flux factor ca. %	Weight ca. kg ⁵⁾
1 h operation time, with electronic ballast (EVG)				
161 136/I/18/1 EVG ¹⁾	16110 0517	1 x T 26/36 W	18	3,5
161 136/I/34/1 EVG	16110 0527	1 x T 26/36 W	34	3,8
161 158/I/15/1 EVG ¹⁾	16110 0518	1 x T 26/58 W	15	3,9
161 158/I/22/1 EVG	16110 0528	1 x T 26/58 W	22	4,2
162 218/I/25/1 EVG ^{1) 3)}	16210 0595	2 x T 26/18 W	25	3,0
162 218/I/65/1 EVG	16210 0582	2 x T 26/18 W	65	3,3
162 236/I/18/1 EVG ^{1) 3)}	16210 0562	2 x T 26/36 W	18	4,8
162 236/I/34/1 EVG	16210 0578	2 x T 26/36 W	34	5,6
162 236/I/55/1 EVG ⁴⁾	16210 0679	2 x T 26/36 W	50	5,3
162 258/I/15/1 EVG ^{1) 3)}	16210 0563	2 x T 26/58 W	15	5,6
162 258/I/22/1 EVG	16210 0580	2 x T 26/58 W	22	5,8
162 258/I/32/1 EVG ⁴⁾	16210 0681	2 x T 26/58 W	31	6,1

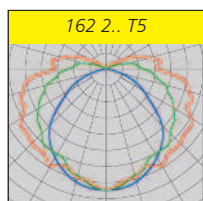
1) 3h emergency operation possible
2) Ratio effective lamp flux/nominal flux
3) shock proof versions

4) MA version not possible
5) Weights without packing material

NEW

161/162... (T5)

for fluorescent tubes T5 (Ø 16mm) with self-contained battery and automatic monitoring



Type	Article no.	Lamps W	Flux factor ca. %	Weight ca. kg ⁴⁾
161 128/28/1 MA	16110 0132	1 x T16/28 W	28	4,0
161 135/35/1 MA	16110 0130	1 x T16/35 W	35	4,4
161 149/20/1 MA	16110 0131	1 x T16/49 W	20	4,4
162 154/22/1 MA	16210 0188	1 x T16/54 W	22	5,2
162 180/15/1 MA ²⁾	16210 0189	1 x T16/80 W	15	6,1
162 214/25/1 MA	16210 0190	2 x T16/14 W	25	3,1
162 224/12/1 MA	16210 0191	2 x T16/24 W	12	3,1
162 228/40/1 MA	16210 0192	2 x T16/28 W	40	5,3
162 235/35/1 MA	16210 0193	2 x T16/35 W	35	6,2
162 249/20/1 MA	16210 0194	2 x T16/49 W	20	6,2

Note:

Depending on the length of the fluorescent lamps different types of fluorescent lamps are available:

- FM high light efficiency (14, 28, 35 W)
- FQ high output (24, 54, 49, 80W)
- Amalgam lamps with an almost constant luminous flux from 5°C up to 70°C (24, 54, 80W)

For deep temperatures we do recommend amalgam lamps.

NEW

161/162... H50

for high ambient temperatures up to +50°C, with self-contained battery



Applications:

Power stations, garbage incineration plants, recycling plants, chemical industries, canteen kitchens, bakeries etc. as emergency and safety illumination and for illuminating and identifying escape routes.

Mechanical Design:

....

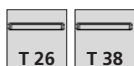
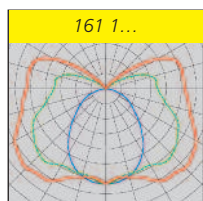
a separate glass fibre reinforced polyester box (BR 10150) which is mounted to a carrier rail together with the light fitting as one unit.

Connection: 5-pole terminal for one-sided loop-in/loop-out wiring with 2 plastic cable glands M20 x 1,5

Mounting: Direct ceiling mount or rope/chain mount with eye bolts or hooks.

Admissible Ambient temperatures: -5°C up to +50 (maintained operation)

Emergency light components installed in



Type	Article no.	Lamps Watts	Flux factor approx. % ²⁾	Weight approx. kg ³⁾
1 h operation time, with conventional ballasts¹⁾				
161 136/18T/1 H50	16116 0001	1 x T 26/36 W	18	6,6
161 158/15T/1 H50	16116 0002	1 x T 26/58 W	15	9,1
162 218/25T/1 H50	16217 0001	2 x T 26/18 W	25	6,7
162 236/18T/1 H50	16217 0002	2 x T 26/36 W	18	9,4
162 258/15T/1 H50	16217 0003	2 x T 26/58 W	15	12,1

Type	Article no.	Lamps Watts	Flux factor approx. % ²⁾	Weight approx. kg ³⁾
3 h operation time, with conventional ballasts¹⁾				
161 136/10T/3 H50	16116 0003	1 x T 26/36 W	10	6,6
161 158/07T/3 H50	16116 0004	1 x T 26/58 W	7	9,1
162 218/12T/3 H50	16217 0004	2 x T 26/18 W	12	6,7
162 236/10T/3 H50	16217 0005	2 x T 26/36 W	10	9,4
162 258/07T/3 H50	16217 0006	2 x T 26/58 W	7	12,1

1) Wiring „uncompensated“ only
2) Ratio effective lamp flux/nominal flux

3) Weights without packing material



161/162... EVG



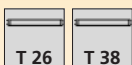
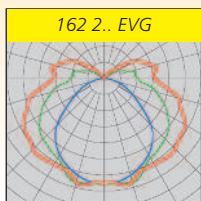
for connection to central power supply unit

Application:

For connection to group or central battery systems or to an emergency mains for illuminating escape routes, ships or vehicles etc.

Electrical design:

Electronic ballasts (230V AC / DC). A double lamp luminaire will be equipped with 2 electronic ballasts, separate lamp circuits and separate connection terminals.



Type	Article no.	Lamps W	Weight ca. kg
with electronic ballast (EVG)			
161 118 EVG ¹⁾	16100 0018	1 x T 26/18 W	1,5
161 136 EVG	16100 0019	1 x T 26/36 W	2,4
161 158 EVG	16100 0020	1 x T 26/58 W	3,0
with 2 individual electronic ballasts (EVG/2)			
162 218 EVG/2 ¹⁾	16200 0353	2 x T 26/18 W	2,1
162 236 EVG/2	16200 0354	2 x T 26/36 W	2,5
162 258 EVG/2	16200 0356	2 x T 26/58 W	4,0

1) Weights without packing material



Further series / equipment

Special design for wind power installations on request.



for series 161/162... with self-contained battery:

- .../B stand-by system = emergency lighting in case of mains failure only (series 162... with 1 lamp = 1621.. only)
- .../P button for testing the emergency light function
- 3h emergency operation time
- insulation class II

for series 161/162...

with self-contained battery and EVG:

- .../MA automatic monitoring the emergency light fitting according to EN 62034, indication of the test results by 2-coloured LED (luminescence diode) at the luminaire.
  - .../BUS for central monitoring of single fittings
- for version 161/162... in case of connection to central power supply unit:**
- with separate or integrated monitoring module for connection to group or central power supply unit with system for monitoring each individual luminaire. (For any inquiry please indicate the make of the equipment used.)
  - with electronic ballast for voltages: 110V AC/DC, 24V DC
- For further equipment please see catalogue section „Dustproof / Waterproof light fittings“ of series 161/162....



Type 162 218... with legend .../35

Self adhesive legends



.../33 W



.../34 W



.../35 W

for escape route identification acc. to BGV A8 and DIN 4844-2. Sighting distance acc. to EN 1838 and DIN 4844 = 25m.

Accessories / Spare Parts

Type	Article no.	
Self adhesive legends for series 162 118 and 162 218		
590/125/33 W	59000 0004	Emergency exit to the left
590/125/34 W	59000 0005	Emergency exit to the right
590/125/35 W	59000 0006	Emergency exit below

For further accessories and spare parts please see catalogue section „Dustproof / Waterproof light fittings“ Series 161/162...

When ordering any electronic components or battery sets please do always indicate the type nos. of the light fittings.

Polyester Damp Room Emergency Light Fittings (Insulation Class I) Series 163/164...

Application:

In workshops and to illuminate and indicate escape routes according to DIN VDE 0108.

Mechanical design:

Enclosure: glass fibre reinforced polyester with foamed polyurethane gasket.

Diffuser: clear, stippled, impact resistant acrylic glass (PMMA) or polycarbonate glass (PC), hinged on one side.

Fasteners: single plastic clamps (KK). Also available with stainless steel clamps (KE) on request.

Reflector: removable white sheet steel, complete with electronic components.

Rotary fasteners for quick assembly.

Electrical connection: 3/4-pole connection terminal.

Cable entries: Variable, closed knock-outs on the short and long sides, and on the top, for looping the mains cable. 2 blanking plugs M20.

Through-wiring: Classic, up to 7 x 2,5mm² or 5 x 4mm² possible. Alternatively looping the cable at one end.

Mounting system: 2 holes for ceiling mounting. Rubber gaskets and U-washers for sealing are supplied inside the fitting.

Modes of operation:

Maintained mode = change-over to battery operation on mains failure. With the 2-lamp version, only one lamp is operated as emergency lighting (Series 164...).

Mains voltage: 230V, 50Hz

Ambient temperature:

-5°C to +30°C for maintained mode
-5°C to +40°C for stand-by mode

Electrical design:

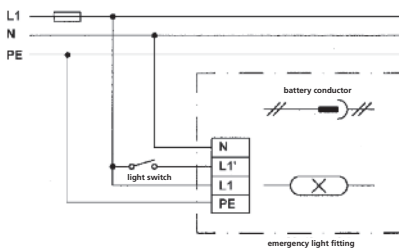
Built-in NiCd battery, a constant trickle charge to the battery ensures readiness of operation at all times.

Visual function monitoring the battery charging process with LED.

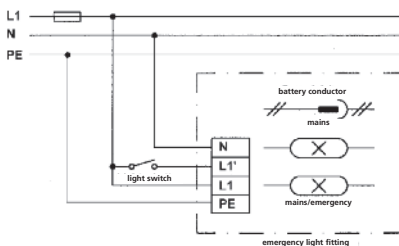
Electronic deep discharge protection

Recharging time: 24 hours acc. to EN 60598-2-22.

Wiring diagram 163... maintained



Wiring diagram 164... maintained



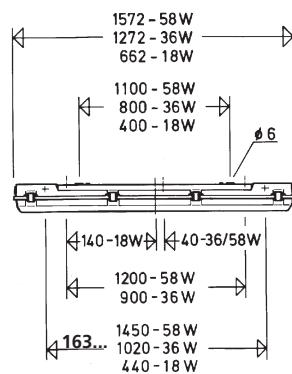
Installation: connect battery conductor

Decommission: disconnect battery conductor

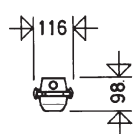
Stand-by operation: do not connect L1'

SCHUCH quality - Your advantage:

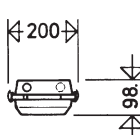
- quality damp room light fitting with higher than average mechanical strength and chemical resistance
  - robust glass fibre reinforced polyester enclosure
  - robust, modified PMMA diffuser (alternatively PC) with thicker walls also in the critical areas (corners)
  - reliable and infallible sealing, due to non-aging, weather and chemical resistant polyurethane gasket situated inside a deep groove
- easy to install and maintain
  - fast dismantling and assembly of the reflector using rotary fasteners on moulded-in studs
  - large terminal compartment for up to 7 x 2.5mm² or 5 x 4mm² terminals
  - problem-free, single-handed installation (2-point suspension)
  - easily adaptable to all local structural conditions due to the variable cable entries on the short and long sides, as well as the top
  - quick and economic single-end IN-OUT wiring instead of the classic through wiring for strip lighting



Series 163...

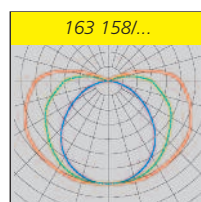


Series 164...



163/164...

with self-contained battery



Type	Article no.	Lamp/W	Flux factor ca. % ²⁾	Weight ca. kg ³⁾
1 h operation time¹⁾				
163 136/18/1 ¹⁾	16310 0001	1 x T 26/36 W	18	3,4
163 158/15/1 ¹⁾	16310 0002	1 x T 26/58 W	15	4,3
164 218/25/1 ¹⁾	16410 0012	2 x T 26/18 W	25	3,5
164 236/18/1 ¹⁾	16410 0001	2 x T 26/36 W	18	5,2
164 258/15/1 ¹⁾	16410 0002	2 x T 26/58 W	15	6,6
1 h operation time, with electronic ballast (EVG)				
163 136/18/1 EVG	16310 0005	1 x T 26/36 W	18	3,2
163 158/15/1 EVG	16310 0006	1 x T 26/58 W	15	3,4
164 218/25/1 EVG	16410 0015	2 x T 26/18 W	25	3,0
164 236/18/1 EVG	16410 0005	2 x T 26/36 W	18	4,1
164 258/15/1 EVG	16410 0009	2 x T 26/58 W	15	4,9

1) Only uncompensated

2) Ratio effective lamp flux to rated current

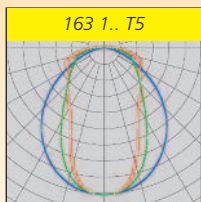
3) Weights without packing material

NEW

163/164... (T5)



for T5 fluorescent lamps Ø 16mm, with self-contained battery and automatic self-monitoring



Type	Article no.	Lamp/W	Flux factor ca. % ²⁾	Weight ca. kg ³⁾
1 h¹⁾ operation time, with electronic ballast				
163 128/28/1 MA	16310 0114	1 x T 16/28 W	28	3,5
163 135/35/1 MA	16310 0112	1 x T 16/35 W	35	3,7
163 149/20/1 MA	16310 0113	1 x T 16/49 W	20	3,7
164 154/22/1 MA	16410 0123	1 x T 16/54 W	22	4,3
164 180/15/1 MA	16410 0124	1 x T 16/80 W	15	5,2
164 214/25/1 MA	16410 0125	2 x T 16/14 W	25	3,0
164 224/12/1 MA	16410 0126	2 x T 16/24 W	12	3,0
164 228/40/1 MA	16410 0127	2 x T 16/28 W	40	4,4
164 235/35/1 MA	16410 0128	2 x T 16/35 W	35	5,4
164 249/20/1 MA	16410 0129	2 x T 16/49 W	20	5,4

1) 3h emergency operation upon request
2) Ratio effective lamp flux to rated current

3) Weights without packing material

163/164... EVG



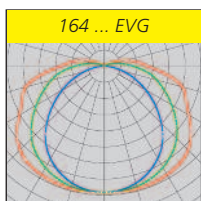
for connection to central power supply unit

Application:

For connection to group or central battery systems or to emergency mains for illuminating escape routes or for emergency illumination on ships, vehicles etc.

Electrical design:

With electronic ballast (230V AC / DC).
In case of 2 fluorescent lamps: 2 individual EVG ballasts, separate lamp circuits and connection terminals.



Type	Article no.	Lamps W	Weight ca. kg ²⁾
with electronic ballast (EVG)			
163 118 EVG ¹⁾	16300 0010	1 x T 26/18 W	1,3
163 136 EVG	16300 0011	1 x T 26/36 W	2,3
163 158 EVG	16300 0012	1 x T 26/58 W	2,6
with 2 individual electronic ballasts (EVG)			
164 218 EVG/2 ¹⁾	16400 0145	2 x T 26/18 W	2,5
164 236 EVG/2	16400 0146	2 x T 26/36 W	3,7
164 258 EVG/2	16400 0147	2 x T 26/58 W	5,0

1) Weights without packing material

2) 24V DC also available





Emergency light fittings for wind turbine generators available on request.



Further series / equipment

Special design for wind power installations on request.



for series 163/164.../ .../ with self-contained battery:

- ... /3 with 3 h operating duration
- ... /B stand-by mode = the emergency lighting only operates in the event of a mains failure. (For series 164... only possible with 1 lamp version 164 1..)
- ... /P with test button for the emergency light function

only for series 163/164.../ .../.

with self-contained battery and EVG:

- ... /MA automatic monitoring of the emergency light fitting acc. to EN 62034. 2-coloured LED on the light fitting indicate the test results.
- ... /BUS for central, individual light fitting monitoring

for series 163/164... in case of connection to central power supply unit:

- with EVG for special voltages 110V AC/DC, 24V DC
- with separate or built-in monitoring module for connection on to group or central battery systems with individual monitoring. (State make of power supply being used when making inquiries)

For further versions see catalogue section

“Dust-/Waterproof light fittings” Series 163/164...



Example with pictogram .../35 W

Self-adhesive pictogram



.../33 W



.../34 W



.../35 W

for identification of escape routes according to BGV A8 and DIN 4844-2.

Viewing distance acc. to EN 1838 and DIN 4844 = 25m.

Accessories / Spare Parts

Type

Article no.

Self-adhesive pictogram for light fittings 164 118 and 164 218

590/125/33 W	59000 0004	emergency EXIT „left“
590/125/34 W	59000 0005	emergency EXIT „right“
590/125/35 W	59000 0006	emergency EXIT „below“

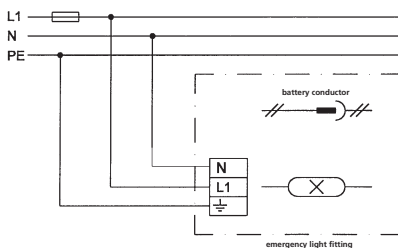
For further accessories and spare parts please see catalogue section „Dust-/Waterproof light fittings“ Series 163/164...

When ordering any electronic components or battery sets please do always indicate the type nos. of the light fittings.

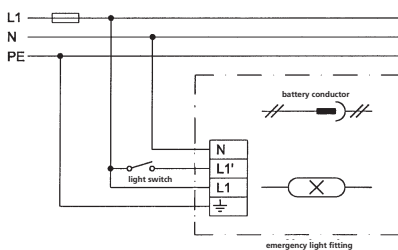
Compact Polyester Emergency/Escape Sign Light Fitting Series 164... KL B/D



Wiring diagram 164 1.. KL B stand-by



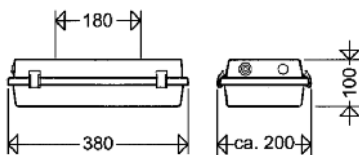
Wiring diagram 164 1.. KL D maintained



Installation: connect battery conductor

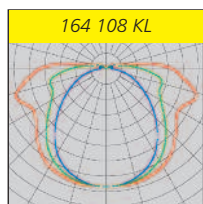
Decommission: disconnect battery conductor

Standby operation: do not connect L1'



164... KL B/D

with self-contained battery



Application:

In wet, humid and dusty locations, commercial and industrial premises, agricultural buildings, multi-storey and underground car parks, basements, kitchens, civil defence shelters, for illumination and identification of escape routes.

Mechanical Design:

Housing: glass fibre reinforced polyester, inlaid profile gasket.

Diffuser: clear impact resistant stippled PMMA (white opal glass on LED version), hinged on either side. Also available in white opal (W) or clear (K) PMMA, or clear stippled (PC) or clear (K PC) polycarbonate.

bonate.

Fasteners: single piece plastic clips (KK). Stainless steel (KE) on request.

Reflector: detachable, white sheet steel, complete with electrical components. Rotary fasteners for quick assembly.

Electrical connection: 3/4-pole connection terminal.

Cable entries: variable, at the ends and top of the housing, 2 x blanking plugs M20. Also available for looping in/out at one end.

Mounting system: 2 holes for ceiling mounting. Rubber gaskets and U-washers for sealing are supplied inside the fitting.

Electrical Design:

NiCd battery: a constant trickle charge to the battery ensures readiness of operation at all times.

Visual function monitoring the battery charging process with LED.

Electronic deep discharge protection

Recharging time: 24 hours acc. to EN 60598-2-22.

Series 164 201 W KL LED./MA

- 3 x 1W high-power LED, white, 5.700 – 6.700K, 40lm/W
- NiMH battery

.../MA - Automatic monitoring of the emergency light fitting acc. to EN 62034. 2-coloured LED's on the light fitting indicate the test results.

Modes of operation:

... B = stand-by operation, in the case of mains failure the emergency lamp switches on.

... D = maintained operation, in case of mains failure the lamp switches over to battery operation.

Connection voltage: 230V, 50Hz

Ambient temperatures:

-5°C up to +30°C for maintained version
-5°C up to +40°C for standby version



Type	Article no.	Lamps W	Em.- hours	Flux factor ca. % ²⁾	Weight ca. kg ⁴⁾
maintained or stand-by operation¹⁾					
164 108/45 KL B/D1	16409 0021	1 x T 16/8 W	1	45	2,0
164 108/36 KL B/D3	16409 0022	1 x T 16/8 W	3	36	2,2
164 111/25 KL B/D1	16409 0023	1 x TC-SEL 11 W	1	25	2,0
164 111/20 KL B/D3	16409 0024	1 x TC-SEL 11 W	3	20	2,4
stand-by operation (B)³⁾					
164 118/39 KL B1	16409 0029	1 x TC-L 18 W	1	39	1,9
164 118/30 KL B3	16409 0033	1 x TC-L 18 W	3	30	2,4
maintained operation (D), with electronic ballast (EVG)³⁾					
164 108/45 KL D1 EVG	16409 0025	1 x T 16/8 W	1	45	1,7
164 108/36 KL D3 EVG	16409 0026	1 x T 16/8 W	3	36	2,3
164 111/25 KL D1 EVG	16409 0027	1 x TC-SEL 11 W	1	25	1,7
164 111/20 KL D3 EVG	16409 0028	1 x TC-SEL 11 W	3	20	1,9

1) Only uncompensated

2) Ratio effective lamp flux to rated current

3) Version MA possible (see "Further Series")

4) Weights without packing material

NEW

164... KL LED/. MA

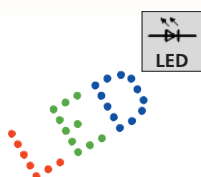


with high power LED, self-contained battery and automatic self-monitoring



Advantages of LED-version

- NEW** • decisive efficiency raise for the used LED
- NEW** • 33% lower power consumption (2 instead of 3 LED / 2.4W instead of 3.6W)
- NEW** • almost double luminous flux light density
- low operating costs due to low power consumption and high efficiency
- up to 74% energy savings in comparison to an 8W fluorescent lamp
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, $T_a=25^\circ\text{C}$)
- low maintenance costs due to long maintenance intervals
- safety in an emergency, immediate full light output even at low temperatures
- ideal for frequent operating cycles
- resistant against shocks and vibrations (LED)
- outstanding recognition of the escape sign with excellent even illumination of the pictogram



Type	Article no.	Qty. LED W	Emerg.-Flux factor time h ca. % ¹⁾	Weight kg ²⁾

maintained operation

164 201 W KL LED/1/MA	16409 0031	2 x 1 W	1 100	1,1
164 201 W KL LED/3/MA	16409 0032	2 x 1 W	3 100	1,2

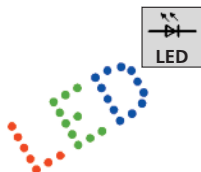
1) Ratio effective lamp flux to rated current 2) Weights without packing material

NEW

164... KL LED



with high power LED, for central battery systems



Type	Article no.	Qty. LED W	Power/ consumption	Weight ca. kg ¹⁾

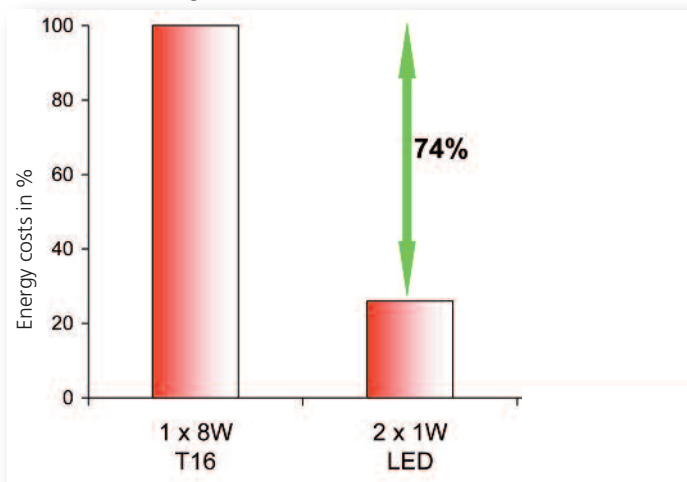
With high power LED, white opaque PMMA glass

164 201 W KL LED	16404 0501	2 x 1 W	2,4 W	0,9

1) Weights without packing material

Energy cost savings

using LED Series 164... KL



Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements.

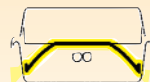
The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.

Series 164 1..KL SB



Series 164 1..KL ST



164... KL EVG

for connection to central power supply



Application:

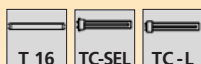
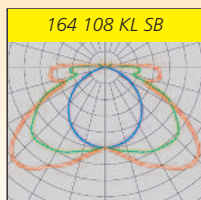
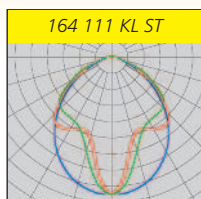
For connection to group or central battery systems or for connection to an emergency mains for identifying and illuminating escape routes.

Mechanical design:

Types ...S. with clear PMMA glass diffuser (K) and anodized mirror-finish pure aluminium reflector

Electrical design:

With electronic ballast (EVG)
(230V AC / DC).



Type	Article no.	Lamps W	Weight ca. kg ¹⁾
with electronic ballast (EVG)			
164 108 KL EVG	16404 0084	1 x T 16/8 W	1,2
164 111 KL EVG	16404 0063	1 x TC-SEL 11 W	1,1
164 118 KL EVG	16404 0015	1 x TC-L 18 W	1,2
with wide beam reflector (SB), electronic ballast (EVG)			
164 108 KL SB EVG	16404 0130	1 x T 16/8 W	1,2
164 111 KL SB EVG	16404 0142	1 x TC-SEL 11 W	1,2
164 118 KL SB EVG	16404 0154	1 x TC-L 18 W	1,3
with narrow beam reflector (ST), electronic ballast (EVG)			
164 108 KL ST EVG	16404 0124	1 x T 16/8 W	1,1
164 111 KL ST EVG	16404 0136	1 x TC-SEL 11 W	1,2
164 118 KL ST EVG	16404 0148	1 x TC-L 18 W	1,3

1) Weights without packing material



Further series / equipment

for series 164... with self-contained battery:

- .../P with test button for the emergency light function
- .../MA automatic monitoring the emergency light fitting according to EN 62034. Indication of test results by 2-coloured LED on the light fitting.

for series 164... KL in case of connection to central power supply unit:

- with electronic ballast (EVG) for the following voltages: 110 V DC, 24V DC, 12V DC
- with separate or integrated monitoring module for connection to group or central battery systems, with individual monitoring each light fitting.
(Please give make of power supply being used when making inquiries.)

For further versions please see catalogue section "Dust-/Waterproof light fittings" Series 164... KL



Series 164... KL with pictogram

Self-adhesive pictogram green/white¹⁾



121/33 W



121/34 W



121/35 W

for light fittings with clear-stippled glass windows for escape route signs acc. to BGV A8 and DIN 4844-2, the viewing distance acc. to EN 1838 and DIN 4833 = 30 m.

1) For white opal glass diffuser: green/transparent

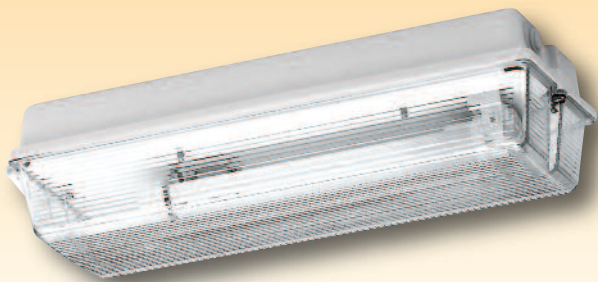
Accessories / Spare Parts

Type	Article no.	
Spare glasses		
164000	16413 9000	PMMA clear-stippled
164000 W	16413 9001	PMMA white-opal
164000 K	16413 9004	PMMA clear
164000 PC	16413 9002	PC clear-stippled
164000 K PC	16413 9005	PC clear
Brackets		
WA 45	90232 0002	wall bracket 45°
WA 90	90232 0003	wall bracket 90°
DA	90232 0004	ceiling bracket
Self-adhesive pictograms (for clear stippled light fittings)		
121/33 W	12112 0006	emergency EXIT „left“
121/34 W	12112 0007	emergency EXIT „right“
121/35 W	12112 0008	emergency EXIT „below“
Further pictogram or inscriptions on request.		

For further accessories and spare parts please see catalogue section „Dust-/Waterproof light fittings“ Series 164... KL

When ordering any electronic components or battery sets please do always indicate the type nos. of the light fittings.

Small Impact Resistant Emergency/Escape Sign Light Fitting Series 131... B/D



Application:

In work and meeting places, humid and wet rooms, to illuminate and indicate escape routes.

Mechanical Design:

Housing: white polycarbonate.

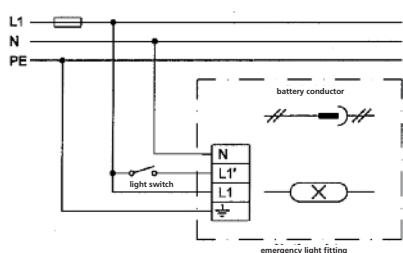
Diffuser: injection-moulded, clear polycarbonate with internal prisms or white opal (W). Hinged and detachable at one end and closed at the other end with a captive stainless steel screw.

Electrical connection: 3- / 4-pole terminal block.

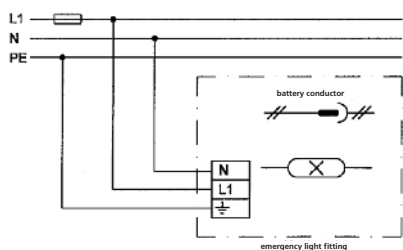
Cable entries: 1 blanking plug M20 at each end.

Mounting system: 2 holes for ceiling mounting. Rubber gaskets and U-washers for sealing are supplied inside the fitting.

Wiring diagram 131.. D/B maintained/stand-by



Wiring diagram 131 1.. B stand-by

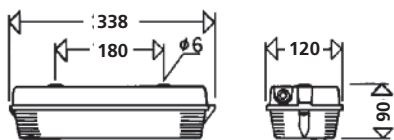


Installation: Connect battery conductor

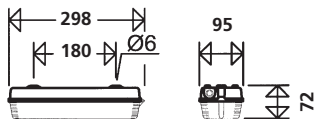
Decommission: Disconnect battery conductor

Stand-by operation: Do not connect L1'

Shock resistance test: RK 1.0 / 10A



Series 130...



Electrical design:

NiCd battery, gastight, mounted on the reflector. A constant trickle charge to the battery ensures readiness of operation at all times.

Visual function monitoring the battery charging process with LED.

Electronic deep discharge protection

Recharging time: 24 hours acc. to EN 60598-2-22.

Series 131 201 W LED../MA:

- 2 x 1W highpower LED, white, 6.500K,
- NiMH battery

... /MA Automatic monitoring of the emergency light fitting acc. to EN 62034. 2-coloured LED on the light fitting indicate the test results.

Modes of operation:

... B = stand-by operation, in the event of mains failure, the emergency lamp switches on.

... D = maintained operation, in the event of mains failure, the lamp switches over to battery operation.

Connection voltage: 230V, 50Hz

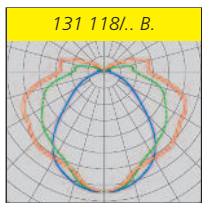
Ambient temperatures:

-5°C up to +30°C for maintained version

-5°C up to +40°C for stand-by version

131... B/D

with self-contained battery



Type	Article no.	Lamp/ W	Emerg. time/h	Flux factor ca. % ²⁾	Weight ca. kg ⁴⁾
maintained or stand-by operation ¹⁾					
131 108/45 W B/D1	13110 0014	1 x T 16/8 W	1	45	1,3
131 108/36 W B/D3	13110 0015	1 x T 16/8 W	3	36	1,3
stand-by operation					
131 118/39 W B1	13110 0018	1 x TC-L 18 W	1	39	1,3
stand-by operation, automatic self-monitoring					
131 118/17 W B1 MA	13110 0022	1 x TC-L 18 W	1	17	1,1
131 118/17 W B3 MA	13110 0024	1 x TC-L 18 W	3	17	1,3
131 118/30 W B1 MA	13110 0021	1 x TC-L 18 W	1	30	1,3
maintained operation, automatic self-monitoring					
131 108/35 W D1 EVG MA	13110 0019	1 x T 16/8 W	1	35	1,2

1) Only uncompensated

2) Ratio effective lamp flux to rated current

3) Weights without packing material



NEW

131... LED/. MA



with high power LED, with self-contained battery and automatic self-monitoring

Advantages of LED-version

- NEW** • decisive efficiency raise for the used LED
- NEW** • 33% lower power consumption (2 instead of 3 LED / 2.4W instead of 3.6W)
- NEW** • almost double luminous flux light density
- low operating costs due to low power consumption and high efficiency
- up to **74%** energy savings in comparison to an 8W fluorescent lamp
- extreme long service life of LED (manufacturers data up to 50.000 hours, 30% light loss, $T_a=25^\circ\text{C}$)
- low maintenance costs due to long maintenance intervals
- immediate full light output even at low temperatures
- ideal for frequent operating cycles
- resistant against shocks and vibrations
- excellent even illumination of the pictogram when used as emergency/escape sign light fitting



Type	Article no.	Qty. LED W	Emerg.-Flux factor time h ca. % ¹⁾	Weight kg ²⁾

maintained operation

131 201 W LED/1 MA	13110 0100	2 x 1 W	1	100	1,0
131 201 W LED/3 MA	13110 0101	2 x 1 W	3	100	1,0

1) Ratio effective lamp flux to rated current

2) Weights without packing material

NEW

130/131... W LED



with high power LED, for connection to central power supply unit

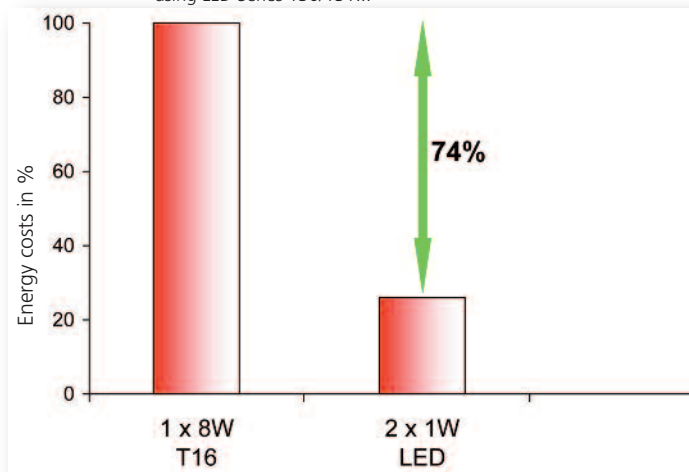


Type	Article no.	Qty. LED W	Power/ consumption	Weight ca. kg ¹⁾

130 201 W LED	13000 0029	2 x 1W	2,4	0,5
131 201 W LED	13100 0100	2 x 1W	2,4	1,0

Energy cost savings

using LED Series 130/131...



Note:

The data given for the LED is relevant at the time of print. Changes based on technical advancements see web-site under www.schuch.de

The given values for energy savings are approximate. These are dependent on the individual lamps used and the built-in apparatus.

Guarantee claims based on this data are excluded.



131... EVG



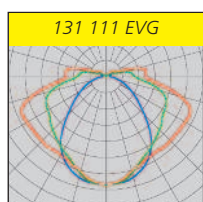
for connection to central power supply unit

Application:

For connection to group or central battery systems or to emergency mains for illuminating escape routes or for emergency illumination on ships, vehicles etc.

Electrical design:

With electronic ballasts (230V AC / DC, 24V DC or 12V DC).



Type	Article no.	Lamp/ W	Weight ca. kg ¹
with electronic ballast (EVG)			
131 108 LL EVG	13100 0047	1 x T 16/8W	0,8
131 111 EVG	13100 0013	1 x TC-SEL 11W	0,7
131 118 EVG	13100 0015	1 x TC-L 18W	0,7
131 111 EVG 24V DC	13100 0017	1 x TC-SEL 11W	1,0
131 111 EVG 12V DC	13100 0016	1 x TC-SEL 11W	1,0

1) Weights without packing material



Further series / equipment

Special design for wind power installations on request.



for series 131... with self-contained battery:

- ... P with test button for testing the emergency light function
- ... EVG with electronic ballast

for series 131... in case of connection to central power supply unit:

- with separate or integrated monitoring module for connection to group or central battery systems, with individual monitoring each light fitting. (State make of power supply being used when making inquiries.)

For further versions see catalogue section „Dust-/Waterproof light fittings“ series 130 / 131 / 132...

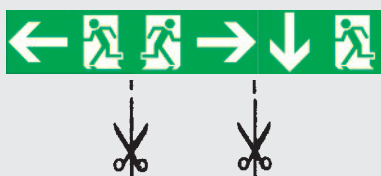


Series 131... with standard pictogram

Self-adhesive pictogram

for identification of escape routes according to BGV A8 and DIN 4844-2.

Viewing distance acc. to EN 1838 and DIN 4844 = 15m.



Accessories / Spare Parts

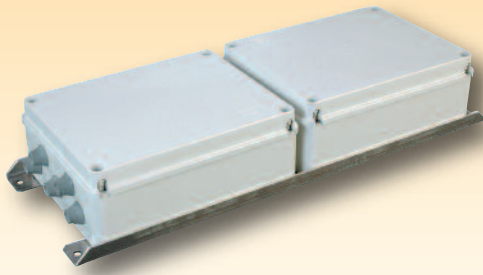
Type	Article no.
Standard pictogram, self-adhesive	
265/76/3	90011 0002 for 131... W
Note: Further pictogram designs or inscriptions on request.	

For further accessories and spare parts please see catalogue section „Dust-/Waterproof light fittings“

Series 130/131/132... KL

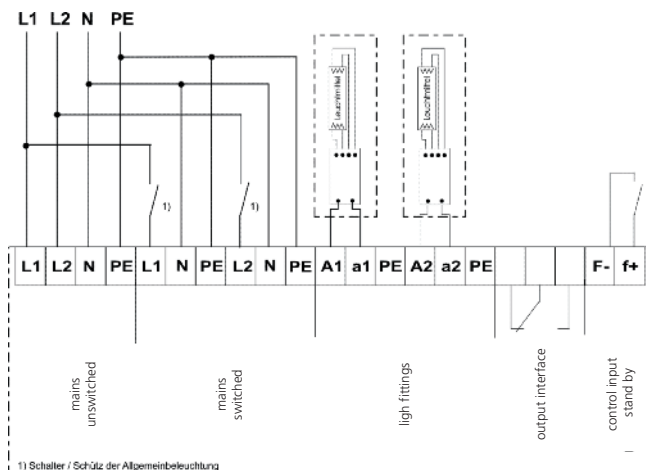
When ordering any electronic components or battery sets please do always indicate the type nos. of the light fittings.

Emergency Light Power Supply Unit Series N 12...



Attention: Installation of this power supply unit is allowed outside the hazardous area only. Distance between the light fitting and the "N" unit: 500mm max. Voltage drop to be considered acc. to VDE 0100.

Wiring diagrams for electronic ballast types:



Application:

As power supply for light fittings with up to 200W which are installed separately from the "N"-device in a different room. It is especially recommended in cases in which the existing environmental conditions prohibit the use of fittings with self-contained battery sets.

Mechanical design:

Housing: Polycarbonate, grey (RAL 9006), cover screwed to the housing.
Battery and electronic device: Each in a separate housing acc. to DIN EN 50272-2. Battery compartment with aeration opening
Mounting: Direct wall mounting (borings of Ø 6,0mm)
Installation: Plug-type terminals (up to 2,5mm²)
Admissible ambient temperature: -5°C up to +35°C
Insulation class: I

Electrical design:

Emergency power supply unit with battery for operating 1 or 2 fluorescent light fittings with electronic ballast (EVG) or lowloss conventional ballast (VVG).
Emergency light electronic device with deep discharge protection and switch-over system for mains/emergency operation.
Automatic monitoring acc. to EN 62034. The consumer loads will be monitored by a self-adjusting performance control device. Manual actuation of the functional tests and display of messages and malfunctions via a combined foil touch screen.
 Interface for remote controlling the operating state via external switch. Interface for malfunction indication.
Battery set: With maintenance-free lead-battery

Modes of operation:

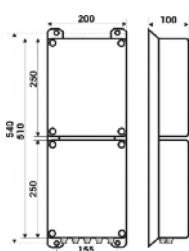
Maintained or stand-by operation
Maintained operation: Switching to battery operation in case of mains failure.
Stand-by operation: Emergency lamp switches on in case of mains failure only.
Rated voltage: 230V / 50Hz
Suitable for:
Light fittings for fluorescent tubes with VVG: Conventional ballast (uncompensated only) with electronic starter.
Light fittings for fluorescent tubes with EVG: For double lamp fittings with double EVG, please consider double consumption or use fittings with 2 EVG (separating the systems)
Note:
 The EVG in the light fittings connected to the power supply unit must be suitable for DC and AC operation.
 Light fittings for incandescent lamps.
 Admissible consumption acc. to the admissible consumption of the fluorescent tubes.

N 12...

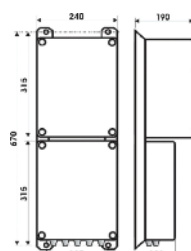
with separate housing each for the inverter and for the battery set



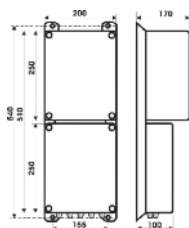
N12/... 18Ah



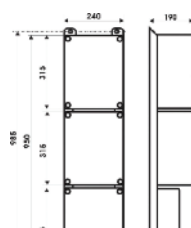
N12/... 45Ah



N12/... 12/24Ah



N12/... 90Ah



Type	Article no.	Lamps W	Flux factor approx. % ¹⁾	Weight appr. kg ²⁾
for light fittings with lowloss ballast				
N12/118-58/18/1 AC	12000 0100	1 x 18 – 58 W	1	8,8
N12/218-36/24/1 AC	12000 0101	2 x 18 – 36 W	1	12,8
N12/258/45/1 AC	12000 0102	2 x 58 W	1	19,2
N12/118-58/45/3 AC	12000 0103	1 x 18 – 58 W	3	19,2
N12/218/45/3 AC	12000 0104	2 x 18 W	3	19,2
N12/236-58/90/3 AC	12000 0105	2 x 36 – 58 W	3	35,5
for light fittings with electronic ballast				
N12/118-58/12/1 DC	12000 0050	1 x 18 – 58 W	1	7,1
N12/218-36/18/1 DC	12000 0051	2 x 18 – 36 W	1	8,8
N12/258/24/1 DC	12000 0052	2 x 58 W	1	12,8
N12/118-58/45/3 DC	12000 0053	1 x 18 – 58 W	3	19,2
N12/218-36/45/3 DC	12000 0054	2 x 18 – 36 W	3	19,2
N12/258/90/3 DC	12000 0055	2 x 58 W	3	35,5

1) Ratio effective flux/rated lamp flux

2) Weights without packing material

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Temperature classes acc. to IEC 60079-0

An important parameter for the subdivision of the gases is the ignition temperature. The ignition temperature is the lowest surface temperature value which ignites an explosive atmosphere. The maximum surface temperature must always be lower than the ignition temperatures of the gas-air or vapour-air mixture in which the product is applied.

Temperature classification	Maximum permissible surface temperatures of equipment [°C]	Ignition temperatures of inflammable substances [°C]
T1	450	> 450
T2	300	> 300 ≤ 450
T3	200	> 200 ≤ 300
T4	135	> 135 ≤ 200
T5	100	> 100 ≤ 135
T6	85	> 85 ≤ 100

Classification of Gases and Vapours into Explosion Groups and Temperature Classes

Explosion group	Classification of gases and vapours into temperature classes					
	T1	T2	T3	T4	T5	T6
IIA	Acetone Ethane Ethyl acetate Ammonia Ethyl chloride Benzol Acetic acid Carbon monoxide Methanol Methyl chloride Naphtalene Phenol Propane Toluol	i-amyl acetate n-butane n-butyl alcohol Cyclohexane 1,2-dichlor-ethane Acetic anhydride	Gasoline Diesel fuel Aviation fuel Heating oils n-hexane	Acetaldehyde	-	
IIB	Town gas	Ethylene Ethyl alcohol	Hydrogen sulphide	Ethyl ether	-	
IIC	Hydrogen	Acetylene			-	Carbon disphide
I	Methane					

Modes of Protection according to European/IEC Standards

In areas where explosive atmospheres may occur despite the explosion protection measures employed, only explosion protected electrical equipment must be used.

EN 60079-7	- stands for: „Increased safety“	- code: „e“
EN 60079-1	- stands for: „Flameproof enclosure“	- code: „d“
EN 60079-5	- stands for: „Sand filling“	- code: „q“
EN 60079-2	- stands for: „Pressurised apparatus“	- code: „p“
EN 60079-6	- stands for: „Oil immersion“	- code: „o“
EN 60079-11	- stands for: „Intrinsic safety“	- code: „i“
EN 60079-18	- stands for: „Moulding“	- code: „m“
EN 50021-15	- stands for: „Zone 2“	- code: „n“

TABLE OF INGRESS PROTECTION		
	PROTECTION AGAINST FOREIGN BODIES	PROTECTION AGAINST HARMFUL ENTRY OF WATER
IP RATING	FIRST CHARACTERISTIC NUMERAL	SECOND CHARACTERSTIC NUMERAL
IP 20	Protected against solid objects greater than 12 mm	Non-protected
IP 23	Protected against solid objects greater than 12 mm	Protected against spraying water
IP 40	Protected against solid objects greater than 1mm	Non-protected
IP 43	Protected against solid objects greater than 1mm	Protected against spraying water
IP 44	Protected against solid objects greater than 1mm	Protected against splashing water
IP 54	Dust protected	Protected against splashing water
IP 55	Dust protected	Protected against water jets
IP 65	Dust-tight	Protected against water jets
IP 66	Dust-tight	Protected against heavy seas
IP 67	Dust-tight	Protected against the effects of immersion

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Zone Classification (acc. to the standards 1999/92/EG)

Hazardous areas are classified into the following zones in accordance with the probability of the existence of an explosive atmosphere:

Gases, vapours or mists

- Zone 0** An area in which an explosive atmosphere is present either **continuously** or over **long periods** or **frequently** as a mixture of air and combustible gases, vapours or mists.
- Zone 1** An area where under normal operating conditions an explosive atmosphere may **occasionally** be present as a mixture of air and combustible gases, vapours or mists.
- Zone 2** An area where an explosive atmosphere is **not likely to be present** under normal operation **but if it should occur for some reason it would normally only exist for a short time** as a mixture of air and combustible gases, vapours or mists.

Dusts

- Zone 20** An area in which an explosive atmosphere is present either **continuously** or over **a long time** or **frequently** as a cloud of combustible dust in the air.
- Zone 21** An area where under normal operating conditions an explosive atmosphere may **occasionally** be present as a cloud of combustible dust in the air.
- Zone 22** An area where an explosive atmosphere is **not likely to be present** under normal operation **but if it should occur for some reason it would normally only exist for a short time** as a cloud of combustible dust in the air.

Catagories of appliances

Acc. to the ATEX standards (94/9/EG) the appliances for application in their relative zones are classified into catagories. Similar to the different zones there are three different catagories for group II of the equipment. Consequently, the explosion protected products can be allocated to the ex-zones existing in the production area.

- Catagory 1** comprises appliances which have been designed in such a way that they may be operated in compliance with the characteristic sizes given by the manufacturer and which ensure a high degree of safety. Appliances of this catagory may be used in ZONES 0 and 20 as per their certification.
- Catagory 2** comprises appliances which have been designed in such a way that they may be operated in compliance with the characteristic sizes given by the manufacturer and which ensure a high degree of safety. Appliances of this catagory may be used in ZONES 1 and 21 as per their certification.
- Catagory 3** comprises appliances which have been designed in such a way that they can be operated in compliance with the characteristic sizes given by the manufacturer and which ensure a standard level of safety. Appliances of this catagory may be used in ZONES 1 and 21 as per their certification.

Appliances of this category may be used in ZONES 2 and 22 as per their certification. DIN EN 61241-14 make a difference between conductive and non-conductive dusts. For conductive dusts of ZONE 22 appliances of catagory 2 D must be used.



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