

## Dustproof/Waterproof Light Fitting with Diffuser Series 161/162...

### Application:

In humid, wet and dusty indoor areas of industrial premises, for workshops and car parks, basements, power stations 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)

### Options:

- stainless steel clips (KE) or one-sided stainless steel hinges (SC)
- plug-in connection (FastConnect)
- 2 entries on one side for mains cable looping instead of the conventional through wiring system
- for vertical wall mounting (with lampholder support)
- cable entries M25x1,5
- in halogen-free version
- silicone-free
- shakeproof (RF) for areas subject to vibrations and shocks (e.g. digger walkways, conveyor belts etc.)
- for connection to group or central battery systems (ZB)

**Closure:** Three-part captive plastic clips (KK).

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

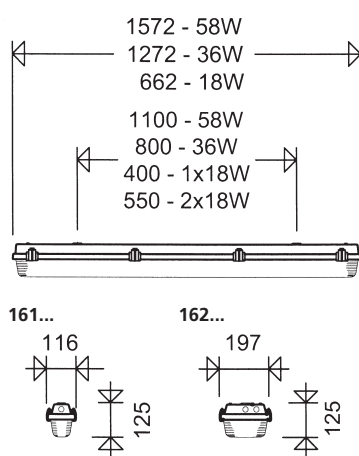
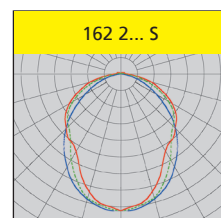
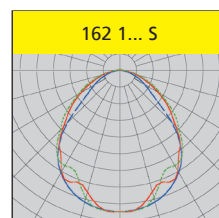
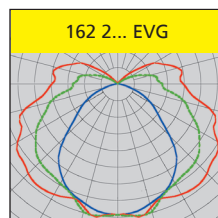
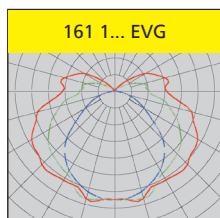
**Connection:** 3-pole terminal.

**Cable entries:** 2 plugs M20.

**Mounting:** Closed knock-outs for direct ceiling mounting (to be opened at site). Sealing and pressure disks inside each fitting.

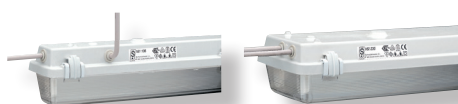
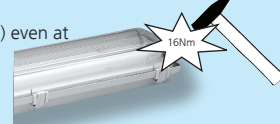
### Note:

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.



### Product highlights:

- high grade, robust, chemically resistant light fitting of an excellent quality; especially suitable for its application at a rough industrial environment:
  - housing of a high-impact resistant (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
  - 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 plastic (standard)
  - Option:** Clips made from high-alloy chromium-nickel steel (in case of aggressive ambient conditions), stainless steel hinges at one side if wanted.
  - variable looping facility of the mains cable



### Cable entries for looping the mains cable on one side (loop in/loop out):

Optionally the light fittings can be supplied with 2 cable entries on one small side. This feature allows an optimal adjustment to all local conditions and it will consequently save the typical quite expensive through wiring system (preparation at additional cost).

Article no.	Type	Lamps W	Weight [kg] without packaging material
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### 161/162...

16100 0018	161118 EVG	1 x T26/18	1,5
16100 0020	161158 EVG	1 x T26/58	3,0
16200 0055	162218 EVG	2 x T26/18	2,2

**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).

In the hinged version please use fittings with stainless steel hinges in the 2 outer positions only.

When mounting the light fittings on bracket poles or tubular beams/pipes always use original Schuch pipe clamps with support (see accessories).

Article no.	Type	Lamps W	Weight [kg] without packaging material

**161/162... AUS****for outdoor installation****Application:**

In protected and unprotected outdoor areas and 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:**

As type 161/162..., but:

Diffuser: UV proof

Gasket: Silicone.

Pressure compensation element:

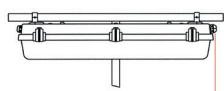
M20

Entries:

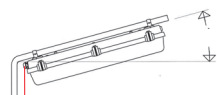
1 gland M20 at one small side, pressure compensation element M20 at the other small side.

**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.

**pole mount with pipe clamps**

pressure compensation element



pressure compensation element

**Notes:**

These light fittings are also available in **LM version**:

- as LED-version
- with PC cover when no cleaning solvents are being used (version IFS)

The Light Fittings may not be cleaned with water-jet units.

**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)
- profile gaskets are UV-, ozone-, weather-, chemically resistant and non-aging
- pressure compensation element provides controlled venting and thus protects against condensation
- the fitting can be installed in canopied as well as in entirely open outdoor areas

16100 0406	<b>161118 AUS EVG</b>	1 x T26/18	1,6
16100 0408	<b>161158 AUS EVG</b>	1 x T26/58	3,4
<del>16200-0406</del>	<del>162218 AUS-EVG</del> no longer available	<del>2 x T26/18</del>	<del>2,2</del>

**161/162... LM****for application in food industry areas****Application:**

Food industry or food processing factories especially in risky areas of the food production or processing, suppliers to the food industry who are falling in the IFS, BRC or HACCP

standards or who are subject to comparably strict requirements (e.g. production of food packaging).

**Design:**

Same as type 161/162... but:

Diffuser: Shatterproof, highchemical resistance.

Profile gasket: Non-absorbing, non-porous, physiologically perfect.

Closure clips: Stainless steel (KE).

**Advantages of the LM version:**

- shatterproof diffuser with very high impact resistance (20Nm) even at a high continuous operating temperature
- resistant against grease and aggressive cleaning agents, disinfectants and solvents (We recommend potential used cleaning agents and disinfectants to be proofed on their consistency! Consistency index on request.)

**IFS/BRC/VDMA/HACCP**

SCHUCH Light Fittings designed for food and beverage industry applications are in accordance with IFS/BRC/VDMA standards. They can be operated without restrictions in operations that must fulfill the HACCP Concept.

16114 0007	<b>161118 LM EVG</b>	1 x T26/18	2,8
16114 0009	<b>161158 LM EVG</b>	1 x T26/58	7,4
<del>16216-0007</del>	<del>162218 LM-EVG</del> no longer available	<del>2 x T26/18</del>	<del>2,8</del>

**161/162... H...****for high ambient temperatures up to +70°C****Application:**

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

**Design:**

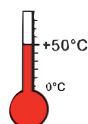
For a. t. up to +40°C

Diffuser: Injected, clear acrylic with internal prisms.

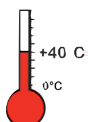
Closure: External plastic clips (KK).

**for a. t. up to +40°C**

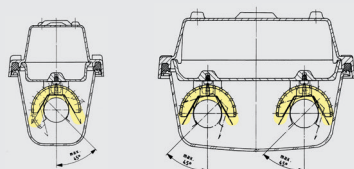
16102 0055	<b>161118 H40 EVG</b>	1 x T26/18	1,7
16102 0057	<b>161158 H40 EVG</b>	1 x T26/58	3,5
<del>16203-0105</del>	<del>162218 H40-EVG</del> no longer available	<del>2 x T26/18</del>	<del>2,9</del>

**Notes:**

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

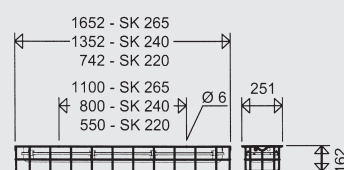
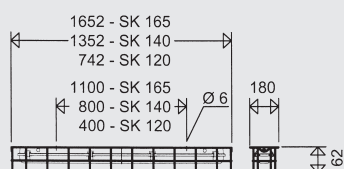


### Rotatable snap-on mirror reflectors



**DB** standardized by Deutsche Bahn AG

### Wire guards



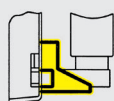
**Pipe clamp** R1 1/2" - Ø 48,3mm  
R2" - Ø 60,3mm



### Ceiling bracket 183 DS



### Lamp holder support 190 FS



### Note:

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

## Accessories / Spare Parts

Article no.	Type		Article no.	Type	
<b>Spare acrylic glass covers (PMMA)</b>			<b>Spare polycarbonate glass covers (PC)</b>		
16111 9000	<b>161 018</b>		16111 9003	<b>161 018 PC</b>	
16111 9001	<b>161 036</b>		16111 9004	<b>161 036 PC</b>	
16111 9002	<b>161 058</b>		16111 9005	<b>161 058 PC</b>	
16211 9000	<b>162 018</b>		16211 9003	<b>162 018 PC</b>	
16211 9001	<b>162 036</b>		16211 9004	<b>162 036 PC</b>	
16211 9002	<b>162 058</b>		16211 9005	<b>162 058 PC</b>	
<b>Spare covers LM</b>					
16111 9017	<b>161 018 LM</b>		16211 9017	<b>162 018 LM</b>	
16111 9018	<b>161 036 LM</b>		16211 9018	<b>162 036 LM</b>	
16111 9019	<b>161 058 LM</b>		16211 9019	<b>162 058 LM</b>	
<b>Spare polycarbonate glass covers PC SC</b>					
16111 9012	<b>161 018 PC SC</b>		16211 9014	<b>162 018 PC SC</b>	
16111 9013	<b>161 036 PC SC</b>		16211 9015	<b>162 036 PC SC</b>	
16111 9014	<b>161 058 PC SC</b>		16211 9016	<b>162 058 PC SC</b>	
<b>Spare polycarbonate glass covers PC 25C</b>					
16111 9020	<b>161 018 PC 25C</b>		16211 9020	<b>162 018 PC 25C</b>	
16111 9021	<b>161 036 PC 25C</b>		16211 9021	<b>162 036 PC 25C</b>	
16111 9022	<b>161 058 PC 25C</b>		16211 9022	<b>162 058 PC 25C</b>	
<b>Rotatable snap-on mirror reflectors</b>					
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:					
16112 0001	<b>161/21</b>		16212 0001	<b>162/22</b>	
16112 0002	<b>161/41</b>		16212 0002	<b>162/42</b>	
16112 0003	<b>161/61</b>				
<b>Wire guards, powder coated</b>					
90004 0001	<b>SK 120</b>		90004 0004	<b>SK 220</b>	
90004 0002	<b>SK 140</b>		90004 0005	<b>SK 240</b>	
90004 0003	<b>SK 165</b>		90004 0006	<b>SK 265</b>	
<b>Clips</b>					
90053 9006	<b>KK FR VE10</b>	plastic clips (packing unit 10)			
90055 9003	<b>KE VE10</b>	stainless steel clips (packing unit 10)			
<b>Cable entries/pressure compensation element</b>					
90063 9000	<b>2511</b>	grommets, Pg13,5/M20			
25610 9000	<b>2561</b>	plastic cable gland M20 x 1,5			
25600 9000	<b>2560</b>	plastic cable gland M25 x 1,5			
90259 9002	<b>DAE20</b>	pressure compensation element M20			
90259 9003	<b>DAE 20/25</b>	adapter gland M20 -> M25 with pressure compensation			
<b>Lamp holders</b>					
90056 9006	<b>161/1 T140</b>	lamp holder for a. t. of +60°C			
90057 9000	<b>183/1</b>	starter holder			
90056 9002	<b>190 FS</b>	lamp holder support			
<b>Lamp holders for T5-lamps</b>					
90056 9008	<b>161 T5</b>	lamp holder for all fluotubes			
<b>Mirror-type alu reflectors for subsequent installation into our standard light fittings</b>					
90238 9001	<b>S 162/2 36</b>	for 162 2367228/254			
90238 9002	<b>S 162/2 58</b>	for 162 258/235/249/280			
<b>Pipe clamps</b>					
90093 0002	<b>183 RO 112 A P</b>	2 pcs., 1 1/2" stainless steel, with support			
90094 0002	<b>183 RO 2 A P</b>	2 pcs., 2" stainless steel, with support			
Consider mounting distances when installing the light fittings by pipe clamps to pole outreaches or any brackets.					
<b>Angle brackets, aluminium for series 161/162..., 163/164... and 175/176...</b>					
90045 9001	<b>HW 30 P</b>	pair of angle brackets 30°			
90045 9002	<b>HW 45 P</b>	pair of angle brackets 45°			
90045 9004	<b>HW 60 P</b>	pair of angle brackets 60°			
90045 9003	<b>HW 90 P</b>	pair of angle brackets 90°			
<b>Accessories for ceiling mounting</b>					
90049 0002	<b>183 S</b>	hook for chain suspension			
90095 0001	<b>183 DS</b>	stainless steel bracket with bolt M5			