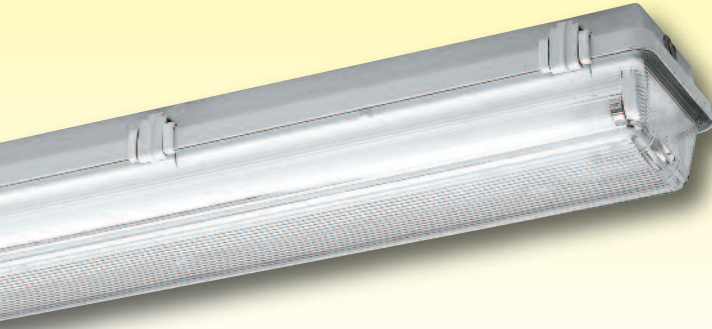


## Dustproof/Waterproof Polyester Light Fitting with Diffuser - Insulation Class II Series 161/162...



### 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 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 one-sided stainless steel hinges (SC) 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: 3-pole terminal.

Cable entries: 2 plugs M20.

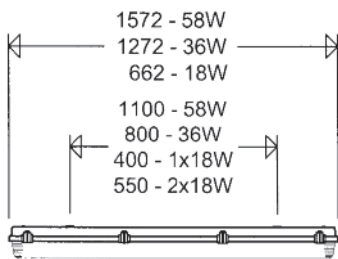
Mounting: Closed knock-outs for direct ceiling mounting (to be opened at site). Rubber sealing washers inside each fitting.

### Options:

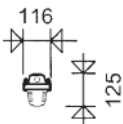
See „Further Series/Equipment“.

### Note:

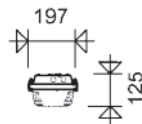
Unlike housings made from polycarbonate our housings made from glass fibre reinforced polyester are durable resistant against UV-radiation and chemical components. Consequently they are all-purpose and enduring safe for long-term use. This is of significant importance especially for industrial applications.



### Series 161...

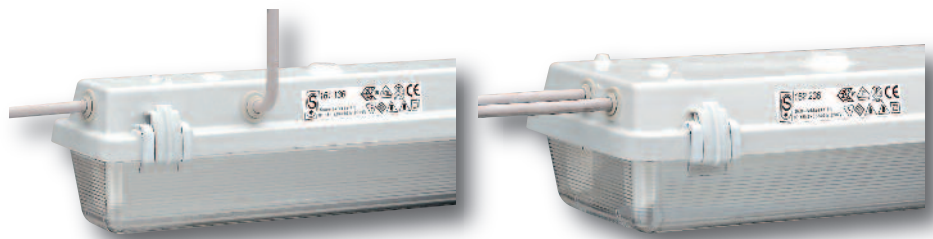
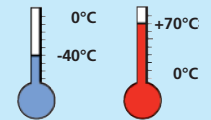
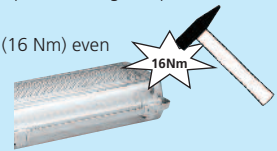


### Series 162...



### 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 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
  - 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 resistant up to 16g and earth-quake proof (TÜV)
- 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
- 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
- excellent light distribution and glare limitation thanks to a diffuser with light technically optimized internal prisms



### 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).

**NEW**

# 161/162... LED



**Application:**

Cold stores, low temperature stores, cooling chambers and walkable low temperature cabins in hotels and restaurants, supermarkets, climate chambers, fresh goods store and production areas in the food industry, slaughterhouses, meat cutting operations, badly accessible areas with high downtime and maintenance costs when replacing the lamps or in case of frequent switching the light on

and off, wind power stations.

**Design:**

Like standard version 161/162..., but:  
**Diffuser:** Injected PMMA (F) or PC (FPC – for types T40/H45 and T40/H60 frosted for glare limitation  
**Spiegelreflektor:** Hochglanzeloxiertes Reinstaluminium, tiefstrahlend 30° (ST 30) bzw. 60° (ST60).

**Options:**  
 See „Further Series/Equipment“.

**Technical data:**

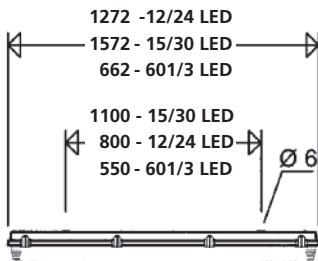
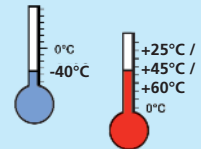
**161/162 12-30 LED**  
**ECG:** 230V 50/60Hz, 220V DC  
**LED:** Highpower-LED 2,5W white, 4.000K, Ra80  
**Ambient temperature:**  
 -40°C up to +25°C.

**162 601/603 LED**

**ECG:** 230V, 50/60Hz.  
**LED:** Highpower-LED 1 or 2,5W white, 6.500K.  
**Ambient temperature:**  
 -40°C up to +60°C - 162 601 LED  
 -40°C up to +45°C - 162 603 LED

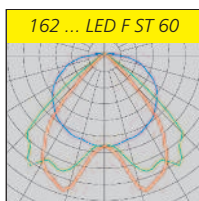
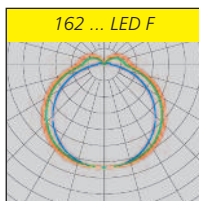
**Advantages of the LED versions:**

- particularly suitable for energy efficient illumination of low temperature areas
  - applicable in a wide temperature range (please contact us)
  - instant light of the maximum luminous flux (raised luminous flux at low temperatures) ideal for light control via door contact, light beam or motion sensor or for safety lighting
  - insensitive to frequent switching
  - less energy consumption by reduced connection power and switching if required only
  - less energy consumption by less cooling power due to less heat input via the illumination
  - minor investments for smaller cooling systems
  - longer LED life through reduced ageing process when operating in the low temperature range (≥ 60,000h at ≤ 30% luminous flux decline)
- efficiency improvement up to 15% due to high efficient aluminium mirror reflector for the light direction, ideal for high locations
- lower maintenance and downtime costs due to long intervals



Type	Article-No	Qty. LED W	Power input - approx.	Comparable to fluo.lamps	Weight ca. kg <sup>1)</sup>
161 1203 LED F	16117 0005	12 x 2,5W	30W	1 x 36W	2,6
161 1503 LED F	16117 0006	15 x 2,5W	40W	1 x 58W	4,0
162 2403 LED F	16215 0001	24 x 2,5W	60W	2 x 36W	4,8
162 3003 LED F	16215 0002	30 x 2,5W	80W	2 x 58W	6,0
<b>with narrow beam reflector 30°</b>					
162 2403 LED F ST30	16215 0007	30 x 2,5W	76W	2 x 58W	6,0
<b>with narrow beam reflector 60°</b>					
162 2403 LED F ST60	16215 0008	30 x 2,5W	76W	2 x 58W	6,0
<b>for a broad temperature range from -40°C up to +60°C</b>					
162 601 LED FPC T40/H60	16215 0101	6 x 1W	8W		2,2
<b>for a broad temperature range from -40°C up to +45°C with raised luminous flux</b>					
162 603 LED FPC T40/H45	16215 0102	6 x 2,5W	16W		2,2

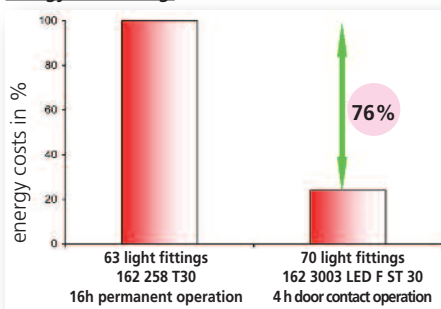
1) Weights without packing material.



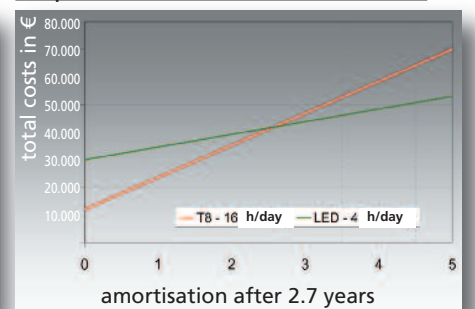
**Economic comparison**

Cold store 50m x 30m x 8m, 150lux cooling factor 0.7

**energy cost saving**



**Comparison of total costs/time of amortisation**



**Dustproof/Waterproof Light Fittings**

**NEW**

## 161/162... F RLED

for LED Retrofit Lamps with short-circuit starter



**Design:**

As standard version 161/162..., but:  
**Diffuser:** Injected PMMA frosted (F) for glare limitation  
**Lampholder:** Special type with snap function.  
**Starter:** Delivery w/o jumper (part of deli-

very of the lamps).

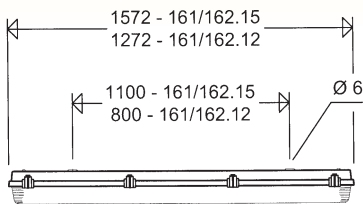
**Ambient temperature:** -30°C up to +30°C

**Options:**

See „Further Series/Versions“

**Note:**

Application of VDE tested LED Retrofit lamps with short circuit starter only with VDE registration no. or with VDE symbol.



**SCHUCH quality – Your advantage:**

- up to 15% higher luminous flux due to application of LED Retrofit lamps with clear lamp tube in combination with a frosted diffuser of a high degree of transmission and a simultaneously better glare suppression
- specific light control by setting the beam direction in steps of 45° via the snap function lampholder
- **option:** Safety locks for protecting the LED Retrofit lamps against theft
- triple safety in case of application
  - VDE certified system (short circuit starter)
  - VDE certified light fitting
  - VDE certified LED retrofit lamp



Type	Article no.	Lamps <sup>1)</sup>	Length (m)	Weight about kg <sup>2)</sup>
161 1/12 F RLED	16117 0102	1 x LED-Retrofit	1,20	3,3
161 1/15 F RLED	16117 0103	1 x LED-Retrofit	1,50	3,6
162 2/12 F RLED	16215 0119	2 x LED-Retrofit	1,20	4,5
162 2/15 F RLED	16215 0120	2 x LED-Retrofit	1,50	6,3

1) Application of LED lamps with VDE registration no. 2) Weights without packing material or with VDE symbol only!

## 161/162...



Type	Article no.	Lamps W	Weight ca. kg <sup>2)</sup>
------	-------------	---------	-----------------------------

**with acrylic diffuser, with low loss conventional ballast**

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

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

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

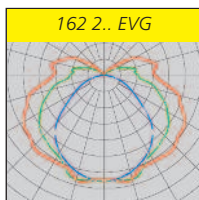
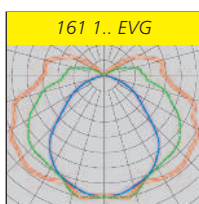
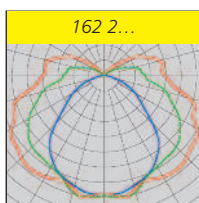
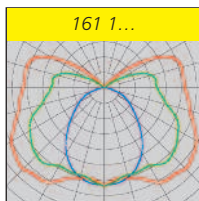
**with acrylic diffuser, with electronic ballast (EVG)**

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







## 161/162... D

for rooms with increased fire risk



### 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. <sup>1)</sup>	Lamps W	Weight ca. kg <sup>2)</sup>
------	---------------------------	---------	-----------------------------

### with acrylic diffuser

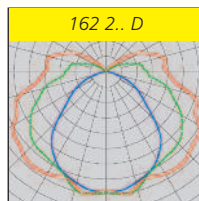
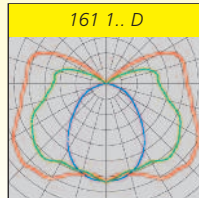
161 118 D	16104 0037	1 x T 26/18 W	2,1
161 136 D	16104 0001	1 x T 26/36 W	3,6
161 158 D	16104 0004	1 x T 26/58 W	4,3
162 218 D	16204 0025	2 x T 26/18 W	3,0
162 236 D	16204 0013	2 x T 26/36 W	5,3
162 258 D	16204 0016	2 x T 26/58 W	7,5

### 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 <sup>2)</sup>
------	-------------	---------	-----------------------------

### with symmetrical mirror-type reflector (S)

162 136 S	16200 0094 <sup>1)</sup>	1 x T 26/36 W	4,8
162 158 S	16200 0112 <sup>1)</sup>	1 x T 26/58 W	5,8
162 236 S	16200 0100 <sup>1)</sup>	2 x T 26/36 W	4,9
162 258 S	16200 0103 <sup>1)</sup>	2 x T 26/58 W	6,7

### ... with electronic ballast (EVG)

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
162 236 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)

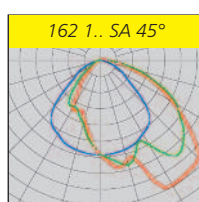
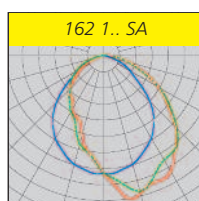
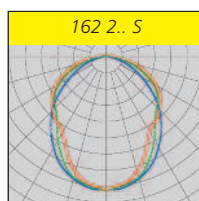
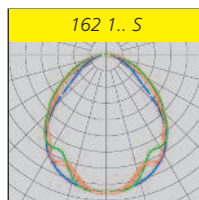
162 136 SA	16200 0097 <sup>1)</sup>	1 x T 26/36 W	4,8
162 158 SA	16200 0115 <sup>1)</sup>	1 x T 26/58 W	5,9

### ... with electronic ballast (EVG)

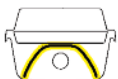
162 136 SA EVG	16200 0062	1 x T 26/36 W	4,1
162 158 SA EVG	16200 0063	1 x T 26/58 W	5,1

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

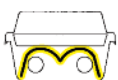
2) Weights without packing material



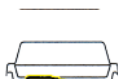
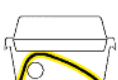
### Types 162 1.. S



### Types 162 2.. S



### Types 162 1.. SA



mirror-type reflector with 45° angle on request

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

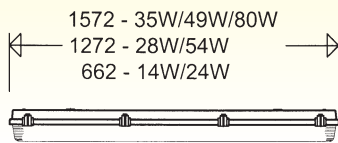
Dustproof/Waterproof Light Fittings

**Note:**

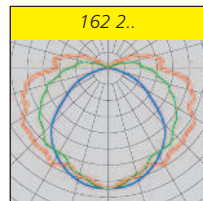
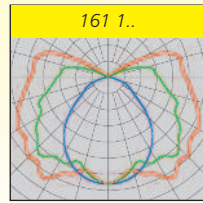
Depending on lamp length (549, 1149, 1449mm), various lamp types can be used:

- HE for high light efficiency (14, 28, 35 W)
- HO 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)
- longlife lamps with an operating life period of up to 60,000 hours (given by the manufacturer)

We recommend the use of Amalgam lamps for low temperatures.

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

for fluorescent tubes T5 (Ø 16mm)



Type <sup>1)</sup>	Article no.	Lamps W	Weight ca. kg <sup>2)</sup>
<b>with electronic ballast (EVG)</b>			
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)

2) Weights without packing material

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

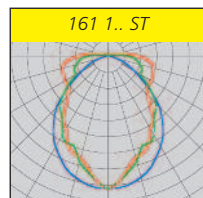
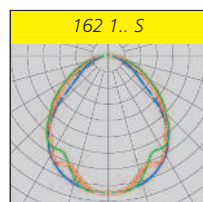
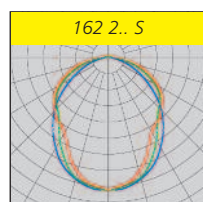
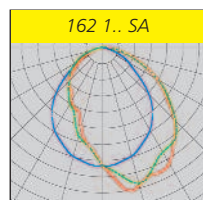
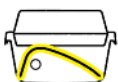
with high gloss mirror reflector for high rooms

**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 <sup>1)</sup>	Article no.	Lamps W	Weight ca. kg <sup>2)</sup>
<b>with low bay mirror type reflector</b>			
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
<b>with symmetrical mirror type reflector, 1 lamp</b>			
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
<b>with symmetrical mirror type reflector, 2 lamps</b>			
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
<b>with asymmetrical mirror type reflector</b>			
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)

2) Weights without packing material



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

**Diffuser:** Specially coated polycarbonate, surface refined (please consult us before placing the order by indicating the agents to be used).

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

**Closure clips:** Stainless steel (KE).

*fulfills the IFS-Standards  
LGA and VDE tested*

**Design:**

Same as type 161/162... but:

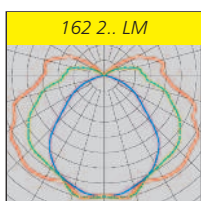
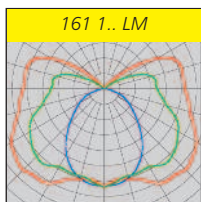
**Advantages of the surface refined polycarbonate cover:**

- shatterproof diffuser 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)
- tested by VDE for application in the food processing industry

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 sweets industry (VDMA).



Type	Article no.	Lamps W	Weight ca. kg <sup>2)</sup>
161 118 LM	16114 0001 <sup>1)</sup>	1 x T 26/18 W	2,1
161 136 LM	16114 0003 <sup>1)</sup>	1 x T 26/36 W	3,2
161 158 LM	16114 0005 <sup>1)</sup>	1 x T 26/58 W	4,2
162 218 LM	16216 0001 <sup>1)</sup>	2 x T 26/18 W	2,8
162 236 LM	16216 0003 <sup>1)</sup>	2 x T 26/36 W	5,1
162 258 LM	16216 0005 <sup>1)</sup>	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



Dustproof/Waterproof  
Light Fittings



# 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 very critical environmental conditions.

In the hinged version please use fittings with stainless steel hinges in the 2 outer positions. When mounting the light fittings on bracket poles or tubular beams/pipes always use original Schuch pipe clamps with support (see accessories).

**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:** Profile gasket  
**Breather:** M25

**Entries:**

1 gland M20 at one small side, breathing gland M25 at the other small side.

**Mounting:**

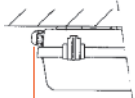
Ceiling and horizontal wall mount or mounting to outreaches, poles, steel structures, catwalks, etc. by means of pipe clamps.

For vertical mounting please consult us.

### Mounting

**ceiling mount**

1- and 2-lamps (IP 64)



breathing gland

**wall mount, horizontal**

1-lamp (IP 65)



1-lamp (IP 64)



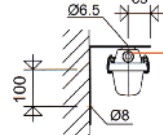
breathing gland

2-lamps (IP 64)



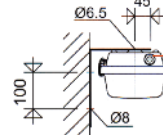
**... within critical environmental conditions**

1-lamp (IP 64)



breathing gland

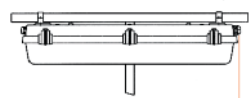
2-lamps (IP 64)



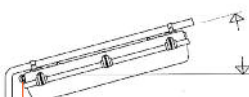
**pole mount with pipe clamps**

1 and 2 lamps (IP 64)

(pipe clamps see accessories)



breathing gland



breathing gland

**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



T 26

Type	Article no. <sup>1)</sup>	Lamps W	Weight ca. kg <sup>2)</sup>
<b>with low loss ballast</b>			
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

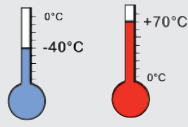
2) Weights without packing material





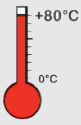
**Note:**

Special versions for application in broad temperature ranges from -40°C up to +70°C e.g. for installation in climate



chambers, containers or in regions where extremely low temperatures are dominating (please consult us).

Light fittings for ambient temperatures up to +80°C please see sheet steel light fittings of 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).



Type	Article no.	Lamps W	Weight ca. kg <sup>6)</sup>
------	-------------	---------	-----------------------------

**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	16203 0105	2 x T 26/18 W	2,9
162 236 H40 EVG <sup>2)</sup>	16203 0106	2 x T 26/36 W	4,9
162 258 H40 EVG <sup>2)</sup>	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	16203 0108	2 x T 26/18 W	2,8
162 236 H50 EVG <sup>2)</sup>	16203 0109	2 x T 26/36 W	5,0
162 258 H50 EVG <sup>2) 4)</sup>	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 <sup>1)</sup>	1 x T 26/18 W	2,1
161 136 H50	16102 0004 <sup>1)</sup>	1 x T 26/36 W	3,4
161 158 H50	16102 0007 <sup>1)</sup>	1 x T 26/58 W	4,1
162 218 H50	16203 0001 <sup>1)</sup>	2 x T 26/18 W	2,8
162 236 H50 <sup>2)</sup>	16203 0004 <sup>1)</sup>	2 x T 26/36 W	4,9
162 258 H50 <sup>2)</sup>	16203 0007 <sup>1)</sup>	2 x T 26/58 W	7,1

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

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

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

162 118 H70 <sup>3)</sup>	16203 0035	1 x T 26/18 W	2,6
162 136 H70 <sup>2) 3)</sup>	16203 0036	1 x T 26/36 W	4,5
162 158 H70 <sup>2) 3)</sup>	16203 0037	1 x T 26/58 W	5,9

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

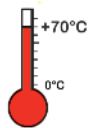
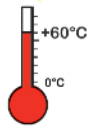
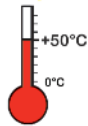
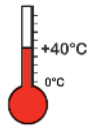
2) Also available with mirror type reflector

3) Uncompensated version only

4)

5)

6) Weights without packing material

**Series 162 1... H70**

162 136 H70 KE SC (with stainless steel clips and stainless hinges)



Dustproof/Waterproof  
Light Fittings





## 161/162... T..

for low ambient temperatures down to -40°C

### Note:

Especially for the food industry we deliver version LM 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.)

### Application:

Deep freezing rooms, cold storage rooms, fish factories and dairy product factories...

**Design:** Insulation class I

**Light fittings with ECG:**

As standard version 161/162... EVG, but: With heat built-up tube Ø 38mm for luminous flux raising.

Light fittings with VVG (low-loss ballast):

As standard version 161/162..., but: With low temperature starter and heat built-up tube Ø 38mm for luminous flux raising.



Type	Article no.	Lamps W	Weight ca. kg <sup>1)</sup>
------	-------------	---------	-----------------------------

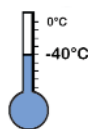
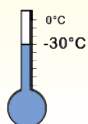
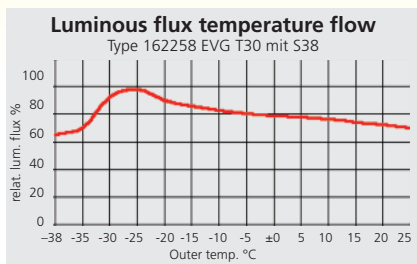
### for a. t. down to -30°C

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

161 118 T40	16103 0031 <sup>1)</sup>	1 x T 26/18 W	2,3
161 136 T40	16103 0033 <sup>1)</sup>	1 x T 26/36 W	3,8
161 158 T40	16103 0035 <sup>1)</sup>	1 x T 26/58 W	4,5
162 218 T40	16202 0031 <sup>1)</sup>	2 x T 26/18 W	3,4
162 236 T40	16202 0033 <sup>1)</sup>	2 x T 26/36 W	5,7
162 258 T40	16202 0035 <sup>1)</sup>	2 x T 26/58 W	8,0

1) Weights without packing material

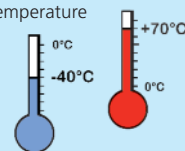


Vertical wall mounting with lampholder supports

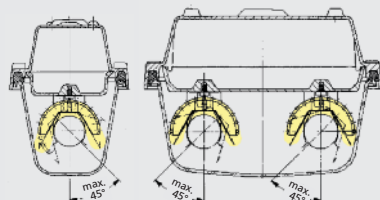
## Further Series / Equipment

- Polycarbonat diffuser (PC) with internal prisms or frosted for glare limitation in case of LED light fittings (F PC)
- high chemically resistant special diffuser (version HCR) for protection against fuel, oils, greases and aggressive solvents
- stainless steel clips (KE) or one-sided stainless steel hinges (SC)
- clip with theft protection device
- "Wieland plug system" e.g. for site illumination
- different cable entries M25 x 1.5 – also in brass
- breather for controlled pressure compensation
- conventional through wiring system up to 5 x 2.5mm<sup>2</sup>
- 2 entries on one side for mains cable looping instead of the conventional through wiring system
- for vertical wall mounting (with lampholder support)

- rotatable snap-type mirror reflectors
- multi-watt ECG for T5 version
- ECG for application in areas with high frequency of cycles
- for special voltages
- insulation class I
- in halogen-free version
- silicone-free
- shakeproof (RF) for areas subject to vibrations and shocks (e.g. digger walkways, conveyor belts etc.)
- for wide range of ambient temperature from -40°C to +70°C

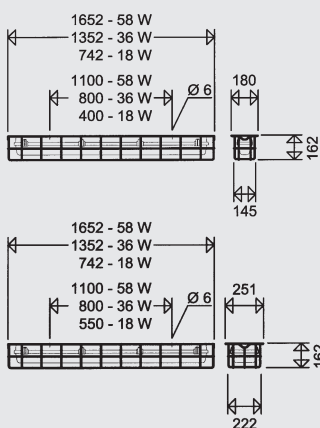


## Accessories / Spare Parts

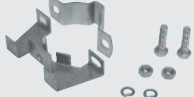


**DB** - standardized by Deutsche Bahn AG

### Wire guards



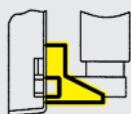
Pipe clamp R1 1/2" - Ø 48,3mm  
R 2" - Ø 60,3mm



### Ceiling bracket



### Lamp holder support 190 FS



### Note:

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

**NEW**

### ...frosted for LED light fittings

Type	Article no.	Type	Article no.
161 036 F	16111 9031	161 036 FPC	16111 9033
161 058 F	16111 9032	161 058 FPC	16111 9034
162 036 F	16211 9031	162 036 FPC	16211 9033
162 058 F	16211 9032	162 058 FPC	16211 9034

### Spare covers

Type	Article no.	Type	Article no.
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

Type	Article no.	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

### Spare polycarbonate glass covers PC 2SC

Type	Article no.	Type	Article no.
161 018 PC 2SC	16111 9020	162 018 PC 2SC	16211 9020
161 036 PC 2SC	16111 9021	162 036 PC 2SC	16211 9021
161 058 PC 2SC	16111 9022	162 058 PC 2SC	16211 9022

### 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	162/22	16212 0001
161/41	16112 0002	162/42	16212 0002
161/61	16112 0003	162/62	16212 0003

### Wire guards, powder coated

SK 120	90004 0001	SK 220	90004 0004
SK 140	90004 0002	SK 240	90004 0005
SK 165	90004 0003	SK 265	90004 0006

### Clips

KK	90053 9000	plastic
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

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 36	90238 9001	for 162 236/228/254
S 162/2 58	90238 9002	for 162 258/235/249/280

### Pipe clamps

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 60° P	90045 9004	pair of angle brackets 60°
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