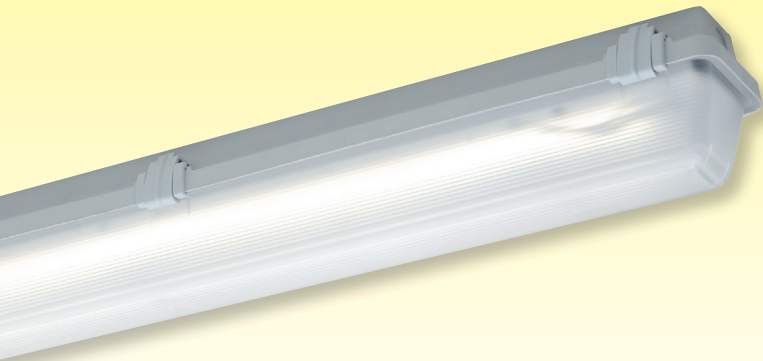




Dustproof/Waterproof LED Light Fitting with Diffuser Series 161/162.. L..

Applications:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks, cold stores, low temperature stores, cooling chambers and walkable low temperature cabins in hotels, climate chambers, roofed outdoor areas, hard to reach areas with high downtime and maintenance costs when replacing the lamps. etc. (In case of aggressive atmosphere please consult us)

Design:

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

Diffuser: Injection-molded acrylic glass,

frosted for glare limitation.

Closure: Three-part captive plastic clips (KK), incl. 2 safety clips (KKS) to ensure protection against contact.

Reflector: Aluminium, painted, can be suspended or removed and carries the electrical components.

Connection: 3-pole or 5-pole terminal (DIMD).

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.

Technical data:

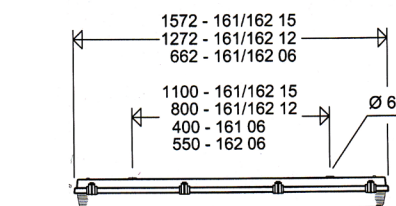
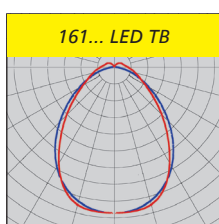
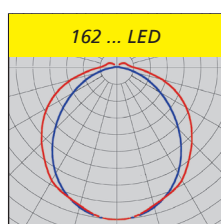
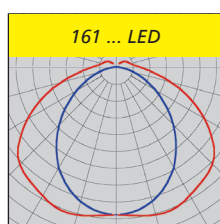
LED: Linear modules 4,000K, CRI > 80, L₈₀ > 70,000h at max. ambient temperature

ECG: 220-240V, 50/60HZ, overload and short-circuit protection

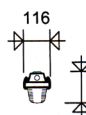
Ambient temperature: -20°C (-40°C for types ...T40) up to ...°C see product table

Options:

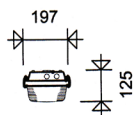
- 6 500K
- high colour rendering index R_a>90 (light colour 940)
- signalization with **coloured LED**
- **amber-colored LED** e. g. for insect-friendly lighting, nature reserves, locks etc.
- increased protection against corrosive
- protection class II
- for connection to group or central battery systems (ZB) or emergency mains respectively
- PC-diffuser, frosted (PC)
- stainless steel clips (KE)
- with through wiring system



Series161...



Series 162...



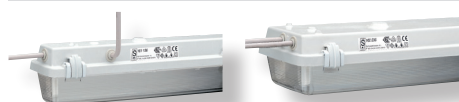
Product highlights:

- robust, extremely strong quality light fitting especially suited for rough industrial use
- high impact strength housing, excellent chemical and UV-resistance
- **highest efficiency** to use top-quality ECG and LED modules
- diffuser with high mechanical stability, fourfold safety against outer impact
- **homogeneous illumination** by using **frosted diffusers**, no particular light points visible, comfortable perception of light, brilliant glare limitation
- **high colour rendering CRI > 80**, according to the workplace guide lines suitable for nearly all plant locations
- with "D"-sign, suitable for rooms with increased fire risk due to deposits of combustible dust and fibrous materials
- ECG and reflector with LED-modules can be replaced by qualified personnel on-site (no single use light fitting)
- future proof by using standardized LED-modules (Zhaga)

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).



Notes:

Maximum energy saving by using types which are optimized for energy consumption.

Properties, limitations and details for controlling LED-light fittings:

See "Technical Supplement"

All technical data is relevant at the time of print. Actual technical data can be found in the internet under www.schuch.de.

Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max.[°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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161/162...



optimized for energy consumption (1 : 1 substitute fo fluorescent types)

16117 0309	161 06L12	1	10	1.390	139	40	A++	1 x 18W	1,8
16117 0301	161 12L22	1	15	2.390	159	40	A++	1 x 36W	2,7
16117 0303	161 15L34	1	21	3.440	164	40	A++	1 x 58W	3,0
16117 0310	161 06L20	1	16	2.370	148	40	A++	2 x 18W	1,8
16117 0302	161 12L42	1	27	4.240	157	40	A++	2 x 36W	2,7
16117 0304	161 15L60	1	39	6.160	158	40	A++	2 x 58W	3,0

with high luminous flux

16117 0305	161 12L60	1	39	5.920	152	30	A++	2 x 58W	2,7
16117 0306	161 15L75	1	49	7.440	152	30	A++	> 2 x 58W	3,0
16215 0302	162 12L120	2	78	11.410	146	35	A++	2 x 80 bzw. 3 x 58W	4,3
16215 0303	162 15L150	2	97	14.310	148	35	A++	4 x 58W	4,8

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes

Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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161/162... DIMD



dimming via DALI interface

Design:

Same as standard version, but with DALI-ECG and 2 additional clamping points, marked with DA, Dimming level 1 -100%.

Note:

The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

16117 0319	161 06L12 DIMD	1	10	1.390	139	40	A++	1 x 18W	1,9
16117 0311	161 12L22 DIMD	1	15	2.390	159	40	A++	1 x 36W	2,8
16117 0313	161 15L34 DIMD	1	21	3.440	164	40	A++	1 x 58W	3,1
16117 0320	161 06L20 DIMD	1	16	2.370	148	40	A++	2 x 18W	1,9
16117 0312	161 12L42 DIMD	1	27	4.240	157	40	A++	2 x 36W	2,8
16117 0314	161 15L60 DIMD	1	39	6.160	158	40	A++	2 x 58W	3,1
16117 0315	161 12L60 DIMD	1	39	5.920	152	30	A++	2 x 58W	2,7
16117 0316	161 15L75 DIMD	1	49	7.440	152	30	A++	> 2 x 58W	3,1
16215 0312	162 12L120 DIMD	2	78	11.410	146	35	A++	2 x 80 bzw. 3 x 58W	4,4
16215 0313	162 15L150 DIMD	2	97	14.310	148	35	A++	4 x 58W	4,9

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!



161... DIMC



dimming via „Corridor Mode“

Applications:

Areas where light fittings are controlled via motion detector or door contact, e.g. storage areas, shelf aisles. Areas with high energy-saving potential at times without presence of persons, e.g. car parks, warehouses, aisles in rack areas etc.

Design:

Same as standard version, but with dimmable ECG and additional clamping point, marked with L'.

Note:

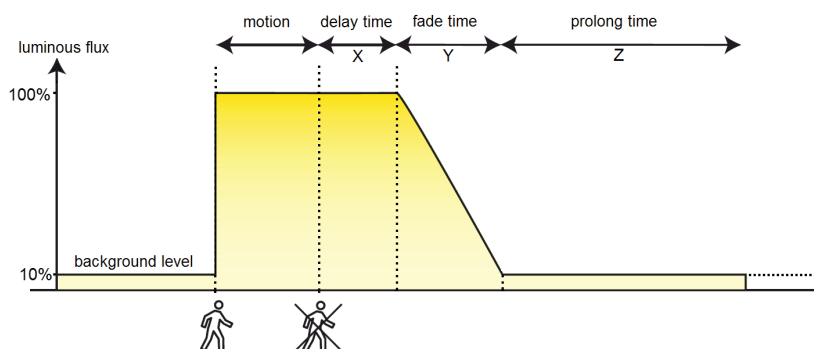
Such light fitting can be controlled by a light fitting of type 161 ... L ... SENS.

Technical data:

The corridor function allows easy power reduction at a fixed value by means of an ordinary 230V control voltage.

Default settings:

- The Corridor Mode must be enabled during the installation of the light fittings. (s. mounting Instructions)
- 100% luminous flux as long as the control phase is active.
- Holding time of 100% luminous flux after switching off the control phase = 0 seconds. By setting the switch-off delay of the motion detector the customer can select an individual holding time
- Dimming ramp 30 seconds
- 10% luminous flux when no movement is detected (reduced operation).
- Automatic cutoff deactivated (light fitting never switches off and provides a background illumination of 10%, but can be switched off by user at any time).



Note:

Since the switching capabilities of LED modules and control devices are limited, dimming without switching of the light fitting completely will result in a much longer life of the light fitting.

16117 0420	161 12L22 DIMC	1	15	2.390	159	40	A++	1 x 36W	2,8
16117 0422	161 15L34 DIMC	1	21	3.440	164	40	A++	1 x 58W	3,1
16117 0421	161 12L42 DIMC	1	27	4.240	157	40	A++	2 x 36W	2,8
16117 0423	161 15L60 DIMC	1	39	6.160	158	40	A++	2 x 58W	3,1

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!

Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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NEW

161... DIMC-Z30



dimable via „Corridor Mode“ and automatic switch-off function

Design:

As DIMC version but with automatic switch-off after 30 minutes.

Note:

The light fittings can be controlled with a 161...SENS-Z30 type.

Default settings different from DIMC types:

- the Corridor Mode is activated at the factory
- automatic cutoff activated (10% background illumination for 30 minutes, then the light fitting is switched off [0%]).

16117 0710	161 12L22 DIMC-Z30	1	15	2.390	159	40	A++	1 x 36W	2,8
16117 0712	161 15L34 DIMC-Z30	1	21	3.440	164	40	A++	1 x 58W	3,1
16117 0711	161 12L42 DIMC-Z30	1	27	4.240	157	40	A++	2 x 36W	2,8
16117 0713	161 15L60 DIMC-Z30	1	39	6.160	158	40	A++	2 x 58W	3,1

161... SENS



DIMC version with integrated motion detector

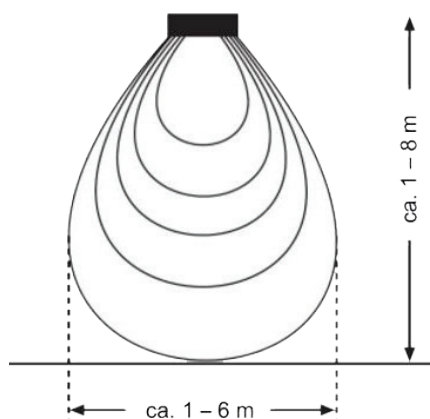
Applications:

Areas with high energy-saving potential in times without presence of persons, e.g. car parks, warehouses, aisles in rack areas etc.

Design:

Same as standard version, but with dimmable ECG, integrated motion detector and additional clamping point, marked with 'L'. This light fitting (Master) controls all fittings of type 161... DIMC (Slaves), which are connected to the same circuit.

Detection range of sensor



Technical data:

Detection range of sensor: Adjustable from 1 m - 6 m (depending on the environment); Default: Maximum
 - Objects (partition walls made from steel, concrete beams, etc.) which absorb or reflect the radar waves affect the detection range of the sensor. This must be checked and taken into account in the planning
 - In general, the detection of radial movements (towards the HF sensor) is more reliable than the detection of tangential movements.

- Tangential movements in a circular path are partially not detected.

- Detection range max. 4m at light point heights of about 2.30m

- Detection range max. 6m at light point heights up to max. 8m.

Delay time: Adjustable from 10 sec to 30 min; with Infrared remote control to 60 min; Default: 5 min

Daylight control: Adjustable from 2 Lux; Default: Maximum

Ambient temperature: -20 ° C up to see article table

Factory settings:

- Dimming ramp 30 seconds

- 10% luminous flux when no movement is detected (reduced operation).

- Automatic cutoff deactivated (light fitting never switches off and provides a background illumination of 10%, but can be switched off by user at any time).

Parameter setting:

- Potentiometer on the HF sensor

- Infrared remote control (optional)

16117 0697	161 12L22 SENS	1	15	2.390	159	40	A++	1 x 36W	2,9
16117 0699	161 15L34 SENS	1	21	3.440	164	40	A++	1 x 58W	3,2
16117 0698	161 12L42 SENS	1	27	4.240	157	40	A++	2 x 36W	2,9
16117 0700	161 15L60 SENS	1	39	6.160	158	40	A++	2 x 58W	3,2

NEW

161... SENS-Z30



DIMC version with integrated motion detector

Design:

minutes.

As SENS version but with automatic switch-off after 30

Default settings different from SENS types:

- the Corridor Mode is activated at the factory
- automatic cutoff activated (10% background illumination for 30 minutes, then the light fitting is switched off [0%]).

16117 0715	161 12L22 SENS-Z30	1	15	2.390	159	40	A++	1 x 36W	2,9
16117 0718	161 15L34 SENS-Z30	1	21	3.440	164	40	A++	1 x 58W	3,2
16117 0716	161 12L42 SENS-Z30	1	27	4.240	157	40	A++	2 x 36W	2,9
16117 0719	161 15L60 SENS-Z30	1	39	6.160	158	40	A++	2 x 58W	3,2

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!

Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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161/162... TB



narrow-wide beam, optics with 60° angle (TB)

Applications:

Illumination for workplaces, aisles, etc.

Design:

Same as standard versions 161/162... LED, but with narrow-wide beam optics with 60° (TB) beam angle.

16117 0604	161 15L60TB	1	39	5.980	153	40	A++	2 x 58W	3,2
16215 0601	162 15L120TB	2	78	11.960	153	40	A++	2 x 80 bzw. 3 x 58W	5,4

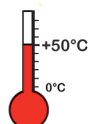
161... H50



for high ambient temperatures up to +50°C

Applications:

Generating plant, steel plant, machine-oriented areas, areas with high process waste heat, areas close to the ceiling with accumulating heat etc.



16117 0324	161 06L12 H50	1	10	1.390	139	50	A++	1 x 18W	2,0
16117 0334	161 06L12 H50 DIMD	1	10	1.390	139	50	A++	1 x 18W	2,0
16117 0321	161 12L22 H50	1	15	2.390	159	50	A++	1 x 36W	2,7
16117 0331	161 12L22 H50 DIMD	1	15	2.390	159	50	A++	1 x 36W	2,8
16117 0322	161 15L34 H50	1	21	3.440	164	50	A++	1 x 58W	3,0
16117 0332	161 15L34 H50 DIMD	1	21	3.440	164	50	A++	1 x 58W	3,1
16117 0490	161 06L20 H50	1	16	2.370	148	50	A++	2 x 18W	2,0
16117 0493	161 06L20 H50 DIMD	1	16	2.370	148	50	A++	2 x 18W	2,0
16117 0491	161 12L42 H50	1	27	4.240	157	50	A++	2 x 36W	2,7
16117 0494	161 12L42 H50 DIMD	1	27	4.240	157	50	A++	2 x 36W	2,8
16117 0492	161 15L60 H50	1	39	6.160	158	50	A++	2 x 58W	3,0
16117 0495	161 15L60 H50 DIMD	1	39	6.160	158	50	A++	2 x 58W	3,1

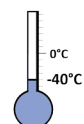
161... T40



for ambient temperatures down to -40°C

Applications:

Cooling chambers, frozen food stock etc.



16117 0409	161 06L12 T40	1	9	1.190	132	40	A++	1 x 18W	1,8
16117 0401	161 12L22 T40	1	14	2.390	171	40	A++	1 x 36W	2,7
16117 0403	161 15L34 T40	1	21	3.440	164	40	A++	1 x 58W	3,0
16117 0410	161 06L20 T40	1	13	2.070	159	40	A++	2 x 18W	1,8
16117 0402	161 12L42 T40	1	27	4.240	157	40	A++	2 x 36W	2,7
16117 0404	161 15L60 T40	1	38	6.160	162	40	A++	2 x 58W	3,0

161/162... T40 / H...



for high ambient temperatures up to +70°C and wide temperature ranges from -40°C up to +70°C

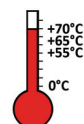
Applications:

Climatic chambers, material container, test benches in the automotive industry, regions with extreme temperature fluctuations etc.

Design:

As standard version, but:

Diffuser: Injection-molded polycarbonate, frosted for glare limitation.



16117 0509	161 06L12 T40 H65	1	9	1.190	132	65	A++	1 x 18W	1,8
16117 0501	161 12L22 T40 H65	1	14	2.390	171	65	A++	1 x 36W	2,7
16117 0503	161 15L34 T40 H65	1	21	3.440	164	65	A++	1 x 58W	3,0
16117 0510	161 06L20 T40 H55	1	13	2.070	159	55	A++	2 x 18W	1,8
16117 0502	161 12L42 T40 H55	1	27	4.240	157	55	A++	2 x 36W	2,7
16117 0504	161 15L60 T40 H55	1	38	6.160	162	55	A++	2 x 58W	3,0
16215 0520	162 12L22 T40 H70	1	15	2.390	159	70	A++	1 x 36W	4,1
16215 0501	162 15L34 T40 H70	1	21	3.440	164	70	A++	1 x 58W	4,8
16215 0521	162 12L42 T40 H70	1	28	4.840	173	70	A++	2 x 36W	4,1
16215 0502	162 15L60 T40 H60	1	39	6.590	169	60	A++	2 x 58W	4,8

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!



Notes:

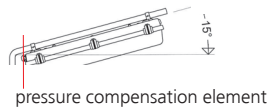
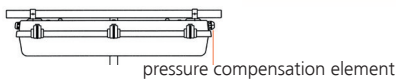
The light fitting is **not suitable** for use in extremely exposed locations with high mechanical stress (wind load) or infrequent or occasional use (e.g. maintenance or inspection lighting).

For use in extremely exposed locations with high mechanical loads (wind load), we recommend our series 144 ... AUS or 107 ... G2 (PRIMO XR).

For infrequent or occasional use, we recommend our series 107 ... G2 (PRIMO XR) or the installation of a weather protection cover over the luminaire.

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

pole mount with pipe clamps



Notes:

The light fittings in Version IFS are not suitable for cleaning with cleaning agents or disinfectants as well as the cleaning with water-jet units.

Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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161/162... AUS



for application in unprotected outdoor areas

Applications:

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.

Design:

As type 161/162... LED, but:

Diffuser: UV proof

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 out-aches, 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 injection-molded 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

optimized for energy consumption (1 : 1 substitute fo fluorescent types)

16117 0350	161 06L12 AUS	1	10	1.390	139	40	A++	1 x 18W	1,8
16117 0351	161 12L22 AUS	1	15	2.390	159	40	A++	1 x 36W	2,7
16117 0353	161 15L34 AUS	1	21	3.440	164	40	A++	1 x 58W	3,0
16117 0358	161 06L20 AUS	1	16	2.370	148	40	A++	2 x 18W	1,8
16117 0352	161 12L42 AUS	1	27	4.240	157	40	A++	2 x 36W	2,7
16117 0354	161 15L60 AUS	1	39	6.160	158	40	A++	2 x 58W	3,0

with high luminous flux

16117 0355	161 12L60 AUS	1	39	5.920	152	30	A++	2 x 58W	2,7
16117 0356	161 15L75 AUS	1	49	7.440	155	30	A++	> 2 x 58W	3,0
16215 0352	162 12L120 AUS	2	78	11.410	146	35	A++	2 x 80 bzw. 3 x 58W	4,3
16215 0353	162 15L150 AUS	2	97	14.310	148	35	A++	4 x 58W	4,8



161/162... IFS

for application in food industry areas

Applications:

Food industry or food processing factories, suppliers to the food industry who are falling in the International Featured Standard Food, BRC, HACCP or who are subject to comparably strict requirements.

Design:

Same as type 161/162 .. L, but:

Diffuser: cover Polycarbonate, frosted.

Closure clips: Stainless steel (KE), incl. 2 safety clips (KES) to ensure protection against contact.

optimized for energy consumption (1 : 1 substitute fo fluorescent types)

16119 0039	161 06L12 IFS	1	10	1.390	139	40	A++	1 x 18W	1,8
16119 0041	161 12L22 IFS	1	15	2.390	159	40	A++	1 x 36W	2,7
16119 0042	161 15L34 IFS	1	21	3.440	164	40	A++	1 x 58W	3,0
16119 0040	161 06L20 IFS	1	16	2.370	148	40	A++	2 x 18W	1,8
16119 0043	161 12L42 IFS	1	27	4.240	157	40	A++	2 x 36W	2,7
16119 0044	161 15L60 IFS	1	39	6.160	158	40	A++	2 x 58W	3,0

with high luminous flux

16119 0305	161 12L60 IFS	1	39	5.920	152	30	A++	2 x 58W	2,7
16119 0046	161 15L75 IFS	1	49	7.440	155	30	A++	> 2 x 58W	3,0
16219 0302	162 12L120 IFS	2	78	11.410	146	35	A++	2 x 80 bzw. 3 x 58W	4,3
16219 0004	162 15L150 IFS	2	97	14.310	148	35	A++	4 x 58W	4,8

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!

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.

Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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161/162... LM



for application in food areas

Applications:

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 International Featured Standard Food, BRC or HACCP standards or who are subject to comparably strict requirements (e.g. production of food packaging).

Design:

Same as type 161/162... LED but:

Diffuser: Shatterproof, high chemical resistance, elements for glare limitation mounted to the reflector.

Closure clips: Stainless steel (KE), incl. 2 safety clips (KES) to ensure protection against contact.

Advantages of the LM version:

- shatterproof diffuser with very high impact resistance (16Nm!) even at a high continuous operating temperature
- resistant to grease and aggressive cleaning agents, disinfectants and solvents (we recommend the respective cleaning agents and disinfectants to be tested on their resistance (resistance 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.

optimized for energy consumption (1 : 1 substitute for fluorescent types)

16119 0005	161 06L12 LM	1	10	1.390	139	40	A++	1 x 18W	1,8
16119 0001	161 12L22 LM	1	15	2.390	159	40	A++	1 x 36W	2,7
16119 0002	161 15L34 LM	1	21	3.440	164	40	A++	1 x 58W	3,0
16119 0006	161 06L20 LM	1	16	2.370	148	40	A++	2 x 18W	1,8
16119 0003	161 12L42 LM	1	27	4.240	157	40	A++	2 x 36W	2,7
16119 0004	161 15L60 LM	1	39	6.160	158	40	A++	2 x 58W	3,2

with high luminous flux

16119 0018	161 12L60 LM	1	39	5.920	152	30	A++	2 x 58W	2,7
16119 0019	161 15L75 LM	1	49	7.440	152	30	A++	> 2 x 58W	3,0
16219 0002	162 15L100 LM	2	67	10.510	157	40	A++	2 x 80W	4,8
16219 0006	162 12L120 LM	2	78	11.410	146	35	A++	2 x 80 bzw. 3 x 58W	4,3
16219 0007	162 15L150 LM	2	97	14.310	148	35	A++	4 x 58W	4,8

161... LM H50



for high ambient temperatures up to +50°C

16119 0067	161 06L12 LM H50	1	10	1.390	139	50	A++	1 x 18W	2,0
16119 0051	161 12L22 LM H50	1	15	2.390	159	50	A++	1 x 36W	2,8
16119 0052	161 15L34 LM H50	1	21	3.440	164	50	A++	1 x 58W	3,0
16119 0050	161 06L20 LM H50	1	16	2.370	148	50	A++	2 x 18W	1,6
16119 0053	161 12L42 LM H50	1	27	4.240	157	50	A++	2 x 36W	4,3
16119 0054	161 15L60 LM H50	1	39	6.160	158	50	A++	2 x 58W	3,1

161... LM T40



for ambient temperatures down to -40°C

16119 0101	161 12L22 LM T40	1	14	2.390	171	40	A++	1 x 36W	2,7
16119 0102	161 15L34 LM T40	1	21	3.440	164	40	A++	1 x 58W	3,2
16119 0103	161 12L42 LM T40	1	27	4.240	157	40	A++	2 x 36W	2,7
16119 0104	161 15L60 LM T40	1	38	6.160	162	35	A++	2 x 58W	3,2

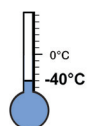
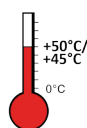
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!



Note:

The colour rendering index Ra does not incorporate the remaining part (R9) in the light spectrum. The standard light colour 840 has only a minor R9 value. For meat processing factories, we recommend the use of our light fittings with light colour 940 (special version), which emits a bigger amount of red light.



Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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NEW

161... ER / HR (RESISTANT)



for use in hazardous areas

Note:

See notes in the technical appendix, chapter 4.1.

Applications:

Areas in trade, trade and industry with corrosive atmospheres or gases and vapors that can damage the LED up to and including total failure.
E.g. chemical industry, galvanizing plants, electroplating plants, foundries, tire production and storage, paper mills, sewage treatment plants, waste incineration plants etc. Advice on request.

Design:

Like the standard version, but with modifications for increased (ER) or high (HR) protection against corrosive atmospheres or harmful gases.

Options:

– stainless steel clips (KE)

– with through wiring system

– for higher ambient temperatures up to +50°C

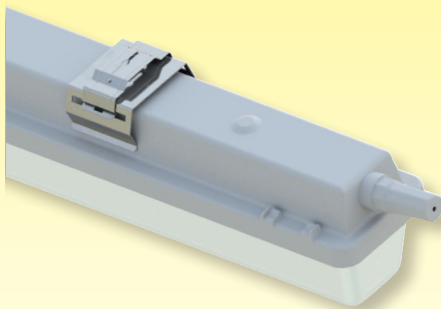
16123 0003	161 12L22 ER	1	15	2.490	166	40	A++	1 x 36W	2,7
16123 0005	161 15L34 ER	1	21	3.590	171	40	A++	1 x 58W	3,0
16123 0004	161 12L42 ER	1	27	4.410	163	40	A++	2 x 36W	2,7
16123 0006	161 15L60 ER	1	39	6.400	164	40	A++	2 x 58W	3,0
16123 0503	161 12L22 HR	1	15	2.490	166	40	A++	1 x 36W	3,0
16123 0505	161 15L34 HR	1	21	3.590	171	40	A++	1 x 58W	3,3
16123 0504	161 12L42 HR	1	27	4.410	163	40	A++	2 x 36W	3,0
16123 0506	161 15L60 HR	1	39	6.400	164	40	A++	2 x 58W	3,3

* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

** see notes, power consumption in dimming mode depends on the dimming adjustment!



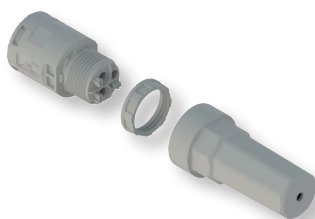
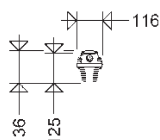
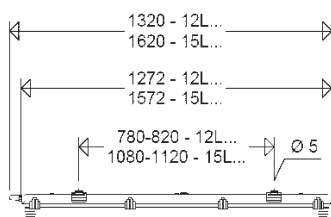
**Dustproof/Waterproof
Light Fittings**



Note:

The FC version can be supplied together with various special versions. The maximum possible ambient temperature is 50 °C.

FC is not available with the variants AUS (unprotected outdoor area) and LM (food industry) combinable.



Article no.	Type	Quantity of ECG	Power consumption [W] **	Luminous flux [lm] **	Luminous efficacy [lm/W] **	Ambient temperature max. [°C]	Energy efficiency class	Substitute for ca. *	Weight [kg] without packing material
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161... FastFix/FastConnect (FF/FC)



with FastFix mounting system

Design: Same as standard but, with pre-assembled quick mounting system (FastFix) and quick connector (FastConnect), for 3-pole connecting cable up to 2.5mm² (Ø 7.5 – 12.5mm)

Advantages of the FastFix/FastConnect version:

- FastFix bracket and quick connector pre-assembled
- Installation and electrical connection without opening the light fitting
- saves at least 60% mounting time

16117 0801	161 12L22 FF/FC	1	15	2.390	159	40	A++	1 x 36W	2,7
16117 0803	161 15L34 FF/FC	1	21	3.440	164	40	A++	1 x 58W	3,0
16117 0802	161 12L42 FF/FC	1	27	4.240	157	40	A++	2 x 36W	2,7
16117 0804	161 15L60 FF/FC	1	39	6.160	158	40	A++	2 x 58W	3,0

Accessories / Spare Parts

Article no.	Type		Article no.	Type	
spare glasses, PMMA frosted			spare glasses, PC frosted		
16111 9035	161 018 F	for 161 06..	16111 9036	161 018 FPC	for 161 06..
16111 9031	161 036 F	for 161 12..	16111 9033	161 036 FPC	for 161 12..
16111 9032	161 058 F	for 161 15..	16111 9034	161 058 FPC	for 161 15..
16211 9035	162 018 F	for 162 06..	16211 9030	162 018 FPC	for 162 06..
16211 9031	162 036 F	for 162 12..	16211 9033	162 036 FPC	for 162 12..
16211 9032	162 058 F	for 162 15..	16211 9034	162 058 FPC	for 162 15..
spare glasses LM-version 161...			spare glasses LM-version 162...		
16111 9017	161 018 LM	for 161 06..			
16111 9018	161 036 LM	for 161 12..	16211 9018	162 036 LM	for 162 12..
16111 9019	161 058 LM	for 161 15..	16211 9019	162 058 LM	for 162 15..
Wire guards, powder coated					
90004 0001	SK 120	for 161 06..	90004 0004	SK 220	for 162 06..
90004 0002	SK 140	for 161 12..	90004 0005	SK 240	for 162 12..
90004 0003	SK 165	for 161 15..	90004 0006	SK 265	for 162 15..
Fasteners					
90053 9008	KK/KKS FR VE10	plastic, incl. 2 safety clips (packing unit 10 pcs.)			
90055 9004	KE/KES VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.)			
90053 9004	KKS P	1 pair of safety clips (for LED version), plastic			
90055 9005	KES P	1 pair of safety clips (for LED version), stainless steel			
Cable entries					
90063 9000	2511	blanking plug M20			
25610 9000	2561	plastic cable gland M20 x 1,5			
25600 9000	2560	plastic cable gland M25 x 1,5			
90259 9002	DAE20	pressure compensation element M20			
90259 9003	DAE 20/25	adapter gland M20 -> M25 with pressure compensation			
Pipe clamps					
90093 0002	183 RO 112 A P	2 pcs., 1 1/2" stainless steel, with support			
90094 0002	183 RO 2 A P	2 pcs., 2" stainless steel, with support			
Consider mounting distances when installing the light fittings by pipe clamps to pole outraches or any brackets.					
Angle brackets, aluminium					
90045 9001	HW 30 P	pair of angle brackets 30°			
90045 9002	HW 45 P	pair of angle brackets 45°			
90045 9004	HW 60 P	pair of angle brackets 60°			
90045 9003	HW 90 P	pair of angle brackets 90°			
Accessories for ceiling mounting					
90049 0002	183 S	hook for chain suspension			
90095 0001	183 DS	stainless steel bracket with bolt M5			
Infrared remote control for SENS-light fittings					
90295 9000	FB SENSOTEC-Mini	Infrared remote control for 161 ..L.. SENS			