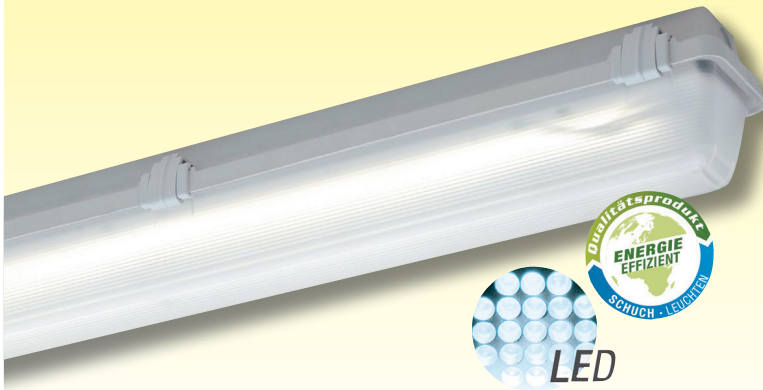




Dustproof/Waterproof LED Light Fitting with Diffuser Series 161/162.. L..

Application:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks, cold stores, low temperature stores, cooling and freezing chambers and walkable low temperature cabins in hotels, climate chambers, hard to reach areas with high downtime and maintenance costs when replacing the lamps.

(In case of aggressive atmosphere please consult us)

Design:

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

Diffuser: Injected, 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:

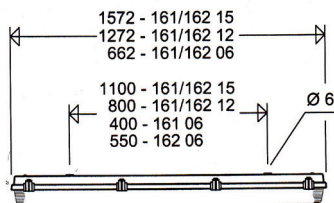
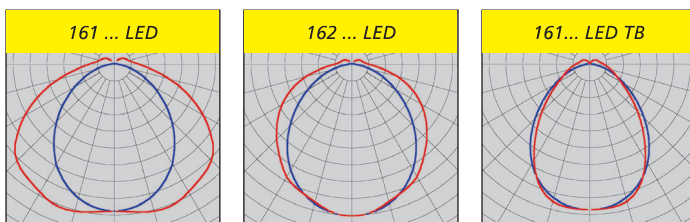
LED: Linear modules 4,000K, CRI > 80, L₈₀ > 50,000h at max. ambient temperature

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

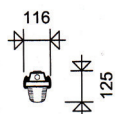
Ambient temperature: -20°C (-40°C for types ...T40) up to ..°C see product table

Options:

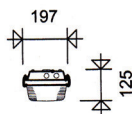
- 6 500K
- high colour rendering index R_a > 90 (light colour 940)
- according to „International Featured Standard Food“ (IFS Food)
- for connection to central power supply unit (ZB)
- PC-diffuser, frosted (PC)
- stainless steel clips (KE)



Series 161...

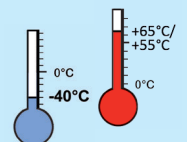


Series 162...



SCHUCH quality - Your advantage:

- highest efficiency with luminous efficacy up to 167lm/W
- 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
 - special versions for high ambient temperatures up to +50°C, low temperatures down to -40°C and wide temperature range from -40°C up to +65°C, for outdoor installations and for applications in the food industry.
- lower maintenance and downtime costs due to long maintenance intervals
- ECG and reflector with LED-modules can be replaced by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)



Notes:

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.

Subject to technical changes, misprints and errors.



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.

161/162... LM



for applications in food 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 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 fo fluorescent types)

16119 0005	161 06L12 LM	1	10	1.330	133	40	A++	1 x 18W	1,8
16119 0001	161 12L22 LM	1	16	2.350	147	40	A++	1 x 36W	2,7
16119 0002	161 15L34 LM	1	23	3.460	150	40	A++	1 x 58W	3,0
16119 0006	161 06L20 LM	1	16	2.180	136	40	A++	2 x 18W	1,8
16119 0003	161 12L42 LM	1	31	4.500	145	40	A++	2 x 36W	2,7
16119 0004	161 15L60 LM	1	45	6.260	139	35	A++	2 x 58W	3,2

with high luminous flux

16219 0001	162 12L85 LM	2	60	8.460	141	40	A++	2 x 54W	4,3
16219 0002	162 15L100 LM	2	74	10.650	144	40	A++	2 x 80W	4,8
16219 0006	162 12L120 LM	2	88	12.900	147	35	A++	2 x 80 bzw. 3 x 58W	4,3
16219 0007	162 15L150 LM	2	109	15.740	144	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!

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 H..



for high ambient temperatures up to +45/50°C

16119 0051	161 12L22 LM H50	1	16	2.350	147	50	A++	1 x 36W	2,8
16119 0052	161 15L34 LM H50	1	23	3.460	150	50	A++	1 x 58W	3,0
16219 0051	162 12L42 LM H50	1	29	4.540	157	50	A++	2 x 36W	4,3
16219 0052	162 15L60 LM H45	1	42	6.520	155	45	A++	2 x 58W	4,8

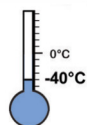


161/162... LM T40



for ambient temperatures down to -40°C

16119 0101	161 12L22 LM T40	1	15	2.360	157	40	A++	1 x 36W	2,7
16119 0102	161 15L34 LM T40	1	26	4.140	159	40	A++	1 x 58W	3,2
16119 0103	161 12L42 LM T40	1	31	4.770	154	40	A++	2 x 36W	2,7
16119 0104	161 15L60 LM T40	1	44	6.570	149	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!

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 9003	KK/KKS 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 outreaches 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			