

# NEW PRODUCTS

## LED Light Fittings



# 2023/24

Light Management  
Explosion-Proof Light Fittings  
Dust- and Waterproof Light Fittings  
High Bay Light Fittings  
Outdoor Light Fittings  
Emergency Light Fittings



NEW

## PROXIMA

### Dustproof/Waterproof LED Light Fitting with Diffuser Serie 161PX...

#### 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 etc. (For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

#### Design:

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

**Diffuser:** Injection-molded acrylic glass,

frosted for glare limitation.

**Closure:** Three-part plastic safety clips (KKS) to ensure protection against accidental contact.

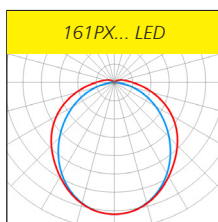
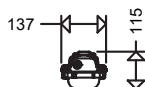
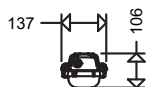
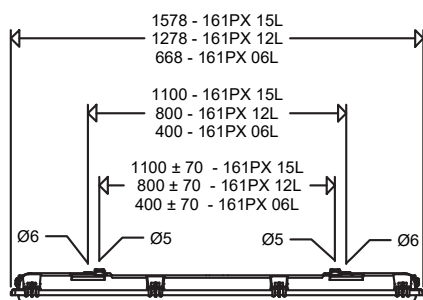
**Reflector:** Aluminium, painted, can be suspended or removed and carries the electrical components.

**Connection:** 3-pole

**Cable entries:** 3 plugs M20, loop in-out possible without further modification.

**Mounting:** 2 stainless steel retaining clips, 2 brackets for chain suspension, holes pre-pressed for direct fixing, sealing and pressure disks included in scope of deliver.

**A legend turns 50!**  
**161 ... becomes 161 PX**  
**PROXIMA – the next generation**



#### Technical data:

**LED:** Linear modules 4,000K, CRI > 80, service life  $L_{90} > 50.000h$  at 25°C ambient temperature, service life  $L_{80} > 70.000h$  and  $L_{70} > 100.000h$  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 article table

#### Options:

- 2,200K, 2,700K, 3,000K, 5,000K, 6,500K
- high colour rendering index  $R_a > 90$
- signalization with coloured LED
- amber-colored LEDs (light colour 518) e. g. for insect-friendly lighting in outdoor areas etc.
- Lightmanagementsystem LIMAS Air
- emergency light for connection to central power supply (ZB)
- emergency light with self-contained battery (MA)
- emergency light with self-contained battery with DALI emergency unit for central monitoring via LIMAS Line PRO (MA-Z)
- protection class II (SKII)
- vibration-resistant (RF)
- Fast Connect (FC) quick connector
- stainless steel clips (KE)
- through wiring up to 7x2.5 mm
- cable entries M25x1.5 mm<sup>2</sup>

#### Product highlights:

Now we have made the legendary 161 series even better and set a new standard:

##### 161 PX PROXIMA - The next generation

- high-impact resistant housing, wall thickness 1.8 mm throughout
- diffuser with very high mechanical stability, wall thickness 2.0 mm throughout
- one housing width for all versions
- safety clips to ensure protection against contact
- FastFix quick mounting system with retaining clips made of stainless steel
- flexible mounting with movable retaining clips
- front-side in/out wiring (3-pole) possible as standard due to 2 entries on one side
- variable cable entry possible through additional entries on the top of the enclosure at the front or in the centre, centring holes available
- homogeneous illumination by using frosted diffusers
- highest efficiency due to use of top-quality components
- high colour rendering CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- with  $\nabla$ -sign, suitable for rooms with increased fire risk
- highest flexibility due to almost unlimited modification possibilities
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)

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

We deliver the light fittings 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. (Surcharge for 5-pole version).



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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max. [°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX...



16130 0001	161PX 06L12	1	10	1.340	134	40	1 x 18W	1,7
16130 0002	161PX 12L22	1	15	2.380	159	40	1 x 36W	2,8
16130 0003	161PX 15L34	1	21	3.430	163	40	1 x 58W	3,4
16130 0004	161PX 06L20	1	16	2.260	141	40	2 x 18W	1,7
16130 0005	161PX 12L42	1	27	4.220	156	40	2 x 36W	2,8
16130 0006	161PX 15L60	1	39	6.130	157	40	2 x 58W	3,4
16130 0007	161PX 12L60	1	39	5.900	151	40	2 x 58W	2,8
16130 0008	161PX 15L75	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0009	161PX 12L120	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0010	161PX 15L150	1	93	14.250	153	35	4 x 58W	3,7
16130 0127	161PX 15L200	2	125	19.400	155	35	6 x 58W	3,7



Dustproof/Waterproof  
Light Fittings

## 161PX... DIMD



### dimnable via DALI interface

#### Design:

Same as standard version, but with DALI2-ECG and 2 additional clamping points, marked with DA, the polarity does not matter. Dimming level 1 -100%. Compatible with LIMAS Line Light Management System.

#### Note:

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

16130 0011	161PX 06L12 DIMD	1	10	1.340	134	40	1 x 18W	1,7
16130 0012	161PX 12L22 DIMD	1	15	2.380	159	40	1 x 36W	2,8
16130 0013	161PX 15L34 DIMD	1	21	3.430	163	40	1 x 58W	3,4
16130 0014	161PX 06L20 DIMD	1	16	2.260	141	40	2 x 18W	1,7
16130 0015	161PX 12L42 DIMD	1	27	4.220	156	40	2 x 36W	2,8
16130 0016	161PX 15L60 DIMD	1	39	6.130	157	40	2 x 58W	3,4
16130 0017	161PX 12L60 DIMD	1	39	5.900	151	40	2 x 58W	2,8
16130 0018	161PX 15L75 DIMD	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0019	161PX 12L120 DIMD	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0020	161PX 15L150 DIMD	1	77	14.250	185	35	4 x 58W	3,7

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max. [°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... DIMC



### dimnable 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:

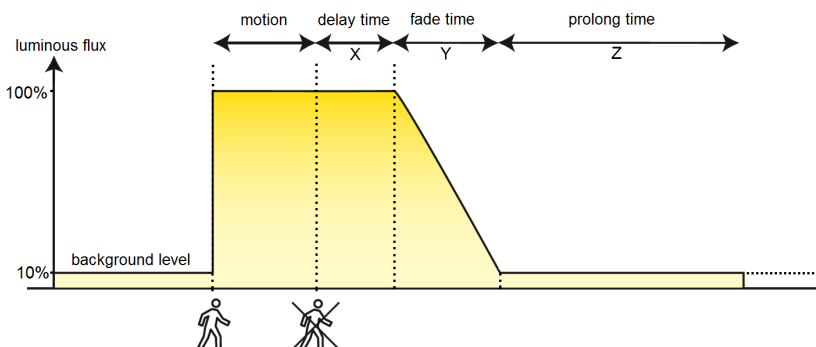
Such light fitting can be controlled by a light fitting of type 161PX... SENS.

#### Technical data:

The Corridor Mode 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.

16130 0022	161PX 12L22 DIMC	1	15	2.380	159	40	1 x 36W	2,8
16130 0023	161PX 15L34 DIMC	1	21	3.430	163	40	1 x 58W	3,4
16130 0025	161PX 12L42 DIMC	1	27	4.220	156	40	2 x 36W	2,8
16130 0026	161PX 15L60 DIMC	1	39	6.130	157	40	2 x 58W	3,4
16130 0027	161PX 12L60 DIMC	1	39	5.900	151	40	2 x 58W	2,8
16130 0028	161PX 15L75 DIMC	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0029	161PX 12L120 DIMC	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0030	161PX 15L150 DIMC	1	93	14.250	153	35	4 x 58W	3,7

## 161PX... DIMC-Z30



### dimnable 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 161PX... 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%]).

16130 0032	161PX 12L22 DIMC-Z30	1	15	2.380	159	40	1 x 36W	2,8
16130 0033	161PX 15L34 DIMC-Z30	1	21	3.430	163	40	1 x 58W	3,4
16130 0035	161PX 12L42 DIMC-Z30	1	27	4.220	156	40	2 x 36W	2,8
16130 0036	161PX 15L60 DIMC-Z30	1	39	6.130	157	40	2 x 58W	3,4
16130 0037	161PX 12L60 DIMC-Z30	1	39	5.900	151	40	2 x 58W	2,8
16130 0038	161PX 15L75 DIMC-Z30	1	49	7.410	151	40	> 2 x 58W	3,4
16130 0039	161PX 12L120 DIMC-Z30	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16130 0040	161PX 15L150 DIMC-Z30	1	93	14.250	153	35	4 x 58W	3,7

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max [°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... SENS



### DIMC version with integrated motion detector

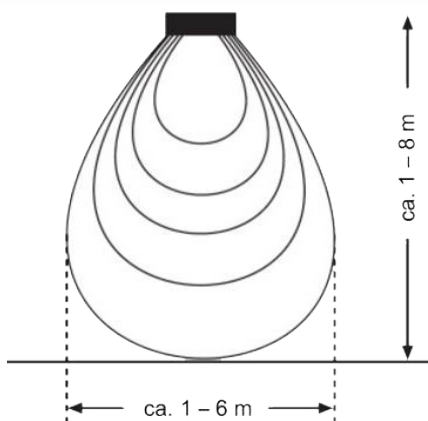
#### Applications:

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 161PX... 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)

16130 0042	<b>161PX 12L22 SENS</b>	1	15	2.380	159	40	1 x 36W	2,9
16130 0043	<b>161PX 15L34 SENS</b>	1	21	3.430	163	40	1 x 58W	3,5
16130 0045	<b>161PX 12L42 SENS</b>	1	27	4.220	156	40	2 x 36W	2,9
16130 0046	<b>161PX 15L60 SENS</b>	1	39	6.130	157	40	2 x 58W	3,5
16130 0047	<b>161PX 12L60 SENS</b>	1	39	5.900	151	40	2 x 58W	2,9
16130 0048	<b>161PX 15L75 SENS</b>	1	49	7.410	151	40	> 2 x 58W	3,5
16130 0049	<b>161PX 12L120 SENS</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,2
16130 0050	<b>161PX 15L150 SENS</b>	1	93	14.250	153	35	4 x 58W	3,8

## 161PX... SENS-Z30



### DIMC version with integrated motion detector

#### Design:

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

#### 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%]).

16130 0052	<b>161PX 12L22 SENS-Z30</b>	1	15	2.380	159	40	1 x 36W	2,9
16130 0053	<b>161PX 15L34 SENS-Z30</b>	1	21	3.430	163	40	1 x 58W	3,5
16130 0055	<b>161PX 12L42 SENS-Z30</b>	1	27	4.220	156	40	2 x 36W	2,9
16130 0056	<b>161PX 15L60 SENS-Z30</b>	1	39	6.130	157	40	2 x 58W	3,5
16130 0057	<b>161PX 12L60 SENS-Z30</b>	1	39	5.900	151	40	2 x 58W	2,9
16130 0058	<b>161PX 15L75 SENS-Z30</b>	1	49	7.410	151	40	> 2 x 58W	3,5
16130 0059	<b>161PX 12L120 SENS-Z30</b>	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,2
16130 0060	<b>161PX 15L150 SENS-Z30</b>	1	93	14.250	153	35	4 x 58W	3,8

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max. [°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... CS



### with smart LIMAS Air light control via radio

#### Applications:

Areas where no DALI lines are available or planned, but the luminaires are to be controlled intelligently.

#### Design:

As standard version, but with CASAMBI®-enabled control gear for smart lighting control.

Explanations on smart light control as well as further system components (sensors / switches / pushbuttons etc.) can be found in the catalog section „Light Management - LIMAS Air“.

#### Product highlights:

- each individual luminaire separately controllable
- compatible with all LIMAS Air system components
- convenient configuration and control via Bluetooth using free smartphone app (Android and iOS)
- no gateway and no internet connection required
- extensive portfolio of sensors and actuators
- significant reduction of operating costs and CO<sub>2</sub> reduction

16130 0061	<b>161PX 12L42 CS</b>	1	27	4.220	156	40	2 x 36W	2,8
16130 0062	<b>161PX 15L60 CS</b>	1	39	6.130	157	40	2 x 58W	3,5

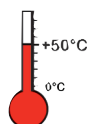
## 161PX... H50



### for high ambient temperatures up to +50°C

#### Applications:

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



16134 0001	<b>161PX 06L12 H50</b>	1	10	1.340	134	50	1 x 18W	1,7
16134 0002	<b>161PX 12L22 H50</b>	1	15	2.380	159	50	1 x 36W	2,8
16134 0003	<b>161PX 15L34 H50</b>	1	21	3.430	163	50	1 x 58W	3,4
16134 0004	<b>161PX 06L20 H50</b>	1	16	2.260	141	50	2 x 18W	1,7
16134 0005	<b>161PX 12L42 H50</b>	1	27	4.220	156	50	2 x 36W	2,8
16134 0006	<b>161PX 15L60 H50</b>	1	39	6.130	157	50	2 x 58W	3,4

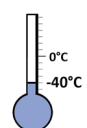
## 161PX... T40



### for ambient temperatures down to -40°C

#### Applications:

Cooling chambers, frozen food stock etc.



16134 0012	<b>161PX 12L22 T40</b>	1	15	2.380	159	40	1 x 36W	2,8
16134 0013	<b>161PX 15L34 T40</b>	1	21	3.430	163	40	1 x 58W	3,4
16134 0015	<b>161PX 12L42 T40</b>	1	27	4.220	156	40	2 x 36W	2,8
16134 0016	<b>161PX 15L60 T40</b>	1	39	6.130	157	40	2 x 58W	3,4

## 161PX... T40 / H...



### for wide temperature ranges from -40°C up to +60°C/70°C

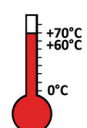
#### Applications:

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.



16134 0022	<b>161PX 12L22 T40 H70</b>	1	15	2.380	159	70	1 x 36W	2,8
16134 0023	<b>161PX 15L34 T40 H70</b>	1	21	3.430	163	70	1 x 58W	3,4
16134 0025	<b>161PX 12L42 T40 H70</b>	1	27	4.220	156	70	2 x 36W	2,8
16134 0026	<b>161PX 15L60 T40 H60</b>	1	39	6.130	157	60	2 x 58W	3,4

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



## 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).

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max. [°C]	Substitute for ca. *	Weight [kg] without packing material
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## 161PX... 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 161PX..., but:

Diffuser: UV proof

Pressure compensation element: M20

Entries: 2 glands M20 at one small side, pressure compensation element M20 at the other small side, 1 screw plug M20.

#### Mounting:

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

#### Advantages of the AUS design:

- glass fibre reinforced polyester housing, durable resistant against UV-radiation and chemical components.
- our injection-molded PMMA-covers are extremely UV-resistant and robust (wall thickness 2.0mm)
- gasket 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



16131 0001	161PX 06L12 AUS	1	10	1.340	134	40	1 x 18W	1,7
16131 0002	161PX 12L22 AUS	1	15	2.380	159	40	1 x 36W	2,8
16131 0003	161PX 15L34 AUS	1	21	3.430	163	40	1 x 58W	3,4
16131 0004	161PX 06L20 AUS	1	16	2.260	141	40	2 x 18W	1,7
16131 0005	161PX 12L42 AUS	1	27	4.220	156	40	2 x 36W	2,8
16131 0006	161PX 15L60 AUS	1	39	6.130	157	40	2 x 58W	3,4
16131 0007	161PX 12L60 AUS	1	39	5.900	151	40	2 x 58W	2,8
16131 0008	161PX 15L75 AUS	1	49	7.410	151	40	> 2 x 58W	3,4
16131 0009	161PX 12L120 AUS	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16131 0010	161PX 15L150 AUS	1	93	14.250	153	35	4 x 58W	3,7

## 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.



## 161PX... 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 161PX... but:

Diffuser: cover Polycarbonate, frosted.

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

16132 0001	161PX 06L12 IFS	1	10	1.340	134	40	1 x 18W	1,7
16132 0002	161PX 12L22 IFS	1	15	2.380	159	40	1 x 36W	2,8
16132 0003	161PX 15L34 IFS	1	21	3.430	163	40	1 x 58W	3,4
16132 0004	161PX 06L20 IFS	1	16	2.260	141	40	2 x 18W	1,7
16132 0005	161PX 12L42 IFS	1	27	4.220	156	40	2 x 36W	2,8
16132 0006	161PX 15L60 IFS	1	39	6.130	157	40	2 x 58W	3,4
16132 0007	161PX 12L60 IFS	1	39	5.900	151	40	2 x 58W	2,8
16132 0008	161PX 15L75 IFS	1	49	7.410	151	40	> 2 x 58W	3,4
16132 0009	161PX 12L120 IFS	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16132 0010	161PX 15L150 IFS	1	93	14.250	153	35	4 x 58W	3,7

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

#### 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	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max [°C]	Substitute for ca. *	Weight [kg] without packing material
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#### 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 fitting with light colour 940 (special version), which emits a bigger amount of red light.

## 161PX... 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 161PX... 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

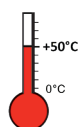
SCHUCH Light Fittings designed for food and beverage industry applications are in accordance with IFS/BRC/VDMA standards. They can be operated without restrictions in operations that must fulfill the HACCP Concept.

16132 0021	161PX 06L12 LM	1	10	1.340	134	40	1 x 18W	1,7
16132 0022	161PX 12L22 LM	1	15	2.380	159	40	1 x 36W	2,8
16132 0023	161PX 15L34 LM	1	21	3.430	163	40	1 x 58W	3,4
16132 0024	161PX 06L20 LM	1	16	2.260	141	40	2 x 18W	1,7
16132 0025	161PX 12L42 LM	1	27	4.220	156	40	2 x 36W	2,8
16132 0026	161PX 15L60 LM	1	39	6.130	157	40	2 x 58W	3,4
16132 0027	161PX 12L60 LM	1	39	5.900	151	40	2 x 58W	2,8
16132 0028	161PX 15L75 LM	1	49	7.410	151	40	> 2 x 58W	3,4
16132 0029	161PX 12L120 LM	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,1
16132 0030	161PX 15L150 LM	1	93	14.250	153	35	4 x 58W	3,7

## 161PX... LM H50



### for high ambient temperatures up to +50°C

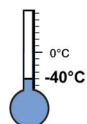


16132 0041	161PX 06L12 LM H50	1	10	1.340	134	50	1 x 18W	1,7
16132 0042	161PX 12L22 LM H50	1	15	2.380	159	50	1 x 36W	2,8
16132 0043	161PX 15L34 LM H50	1	21	3.430	163	50	1 x 58W	3,4
16132 0044	161PX 06L20 LM H50	1	16	2.260	141	50	2 x 18W	1,7
16132 0045	161PX 12L42 LM H50	1	27	4.220	156	50	2 x 36W	2,8
16132 0046	161PX 15L60 LM H50	1	39	6.130	157	50	2 x 58W	3,4

## 161PX... LM T40



### for ambient temperatures down to -40°C



16132 0052	161PX 12L22 LM T40	1	15	2.380	159	40	1 x 36W	2,8
16132 0053	161PX 15L34 LM T40	1	21	3.430	163	40	1 x 58W	3,4
16132 0055	161PX 12L42 LM T40	1	27	4.220	156	40	2 x 36W	2,8
16132 0056	161PX 15L60 LM T40	1	39	6.130	157	40	2 x 58W	3,4

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Ambient temperature max. [°C]	Substitute for ca. *	Weight [kg] without packing material
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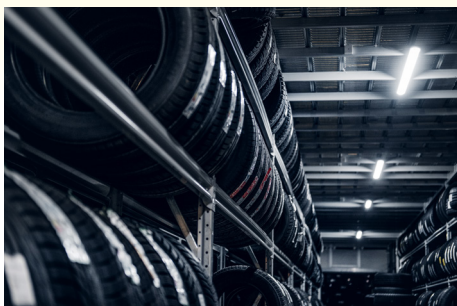
## 161PX... ER / HR (RESISTANT)



### 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 craft 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.

#### Options:

- stainless steel clips (KE)
- for higher ambient temperatures up to +50°C
- with through wiring system

#### Design:

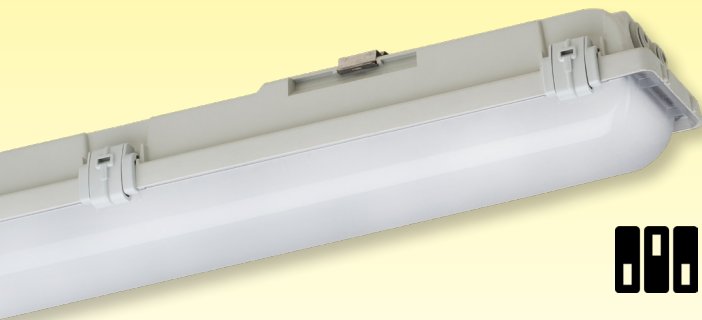
Like the standard version, but with modifications for increased (ER) or high (HR) protection against corrosive atmospheres or harmful gases.

16133 0001	161PX 06L12 ER	1	10	1.340	134	40	1 x 18W	1,7
16133 0002	161PX 12L22 ER	1	15	2.380	159	40	1 x 36W	2,8
16133 0003	161PX 15L34 ER	1	21	3.430	163	40	1 x 58W	3,4
16133 0004	161PX 06L20 ER	1	16	2.370	148	40	2 x 18W	1,7
16133 0005	161PX 12L42 ER	1	27	4.430	164	40	2 x 36W	2,8
16133 0006	161PX 15L60 ER	1	39	6.440	165	40	2 x 58W	3,4
16133 0007	161PX 12L60 ER	1	39	6.200	159	40	2 x 58W	2,8
16133 0008	161PX 15L75 ER	1	49	7.780	159	40	> 2 x 58W	3,4
16133 0009	161PX 12L120 ER	1	77	12.040	156	35	2 x 80 bzw. 3 x 58W	3,1
16133 0010	161PX 15L150 ER	1	93	14.960	161	35	4 x 58W	3,7
16133 0011	161PX 06L12 HR	1	10	1.340	134	40	1 x 18W	2,0
16133 0012	161PX 12L22 HR	1	15	2.380	159	40	1 x 36W	3,1
16133 0013	161PX 15L34 HR	1	21	3.430	163	40	1 x 58W	3,7
16133 0014	161PX 06L20 HR	1	16	2.370	148	40	2 x 18W	2,0
16133 0015	161PX 12L42 HR	1	27	4.430	164	40	2 x 36W	3,1
16133 0016	161PX 15L60 HR	1	39	6.440	165	40	2 x 58W	3,7
16133 0017	161PX 12L60 HR	1	39	6.200	159	40	2 x 58W	3,1
16133 0018	161PX 15L75 HR	1	49	7.780	159	40	> 2 x 58W	3,7
16133 0019	161PX 12L120 HR	1	77	12.040	156	35	2 x 80 bzw. 3 x 58W	3,8
16133 0020	161PX 15L150 HR	1	93	14.960	161	35	4 x 58W	4,3

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

## Accessories / Spare Parts

Article no.	Type		Article no	Type	
spare glasses, PMMA frosted			spare glasses, PC frosted		
16111 9040	ABD 161PX 06		16111 9043	ABD 161PX 06 PC	
16111 9041	ABD 161PX 12		16111 9044	ABD 161PX 12 PC	
16111 9042	ABD 161PX 15		16111 9045	ABD 161PX 15 PC	
spare glasses LM-version					
16111 9046	ABD 161PX 06 LM				
16111 9047	ABD 161PX 12 LM				
16111 9048	ABD 161PX 15 LM				
Fasteners					
90053 9009	KKS FR VE10	plastic safety clips (packing unit 10 pcs.)			
90055 9007	KE/KES G2 VE10	stainless steel clips, incl. 2 safety clips (packing unit 10 pcs.)			
90053 9004	KKS P	1 pair of safety clips (for LED version), plastic			
90055 9006	KES G2 P	1 pair of safety clips (for LED version), stainless steel			
Cable entries/pressure compensation elements					
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					
90094 0005	183 RO 112 A P SD	2 pcs., 1 1/2" stainless steel, with support			
90094 0006	183 RO 2 A P SD	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°			



## PROXIMA

### Dustproof/Waterproof LED Light Fitting with Diffuser with variable setting of the luminous flux Series 161PX... VARIO

#### Applications:

Factories in which, for reasons of maximum standardization and economic storage, only one type of damp-proof luminaire is to be used, which can be used for a wide variety of lighting tasks due to its variably adjustable luminous flux. (For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

#### Design:

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

**Diffuser:** Injection-molded acrylic glass, frosted for glare limitation.

**Closure:** Three-part plastic safety clips (KKS) to ensure protection against accidental contact.

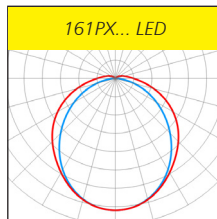
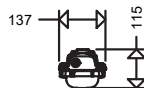
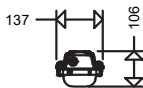
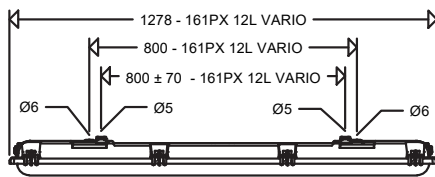
**Reflector:** Aluminium, painted, can be suspended or removed and carries the electrical components.

**DIP switch** for setting the luminous flux of the luminaire.

**Connection:** 3-pole

**Cable entries:** 3 plugs M20, loop in-out possible without further modification.

**Mounting:** 2 stainless steel retaining clips, 2 brackets for chain suspension, holes pre-pressed for direct fixing, sealing and pressure disks included in scope of deliver.



#### Technical data:

**LED:** Linear modules 4,000K, CRI > 80, service life  $L_{90} > 50.000h$  at 25°C ambient temperature, service life  $L_{80} > 70.000h$  and  $L_{70} > 100.000h$  at max. ambient temperature

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

**DIP switch** for setting the luminous flux of the luminaire.

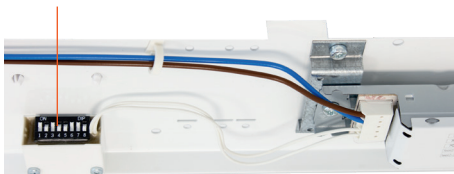
**Ambient temperature:** 20°C up to +35/40/45°C (see article table)

#### Options:

– 2,200K, 2,700K, 3,000K, 5,000K, 6.500K

– with through wiring system  
– PC-diffuser frosted (PC)

#### DIP switch for setting the luminous flux of the luminaire



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

We deliver the light fittings 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. (Surcharge for 5-pole version).



#### Product highlights of the VARIO version:

- universally usable due to variable setting of the luminous flux, depending on the requirement (replaces fluorescent lamps from 1x18 up to 2x58W)
- simple and quick adjustment on-site without tools
- can be changed at any time (e.g. change of use of the premises with new requirements in regard to the level of illumination)
- for temperatures from -20°C up to +35/40/45°C (depending on setting)
- great versatility, thus economical storage due to standardization (only one light fitting instead of multiple versions)

#### General product highlights of the 161PX... series:

- high-impact resistant housing, wall thickness 1.8 mm throughout
- diffuser with very high mechanical stability, wall thickness 2.0 mm throughout
- one housing width for all versions
- safety clips to ensure protection against contact
- FastFix quick mounting system with retaining clips made of stainless steel
- flexible mounting with movable retaining clips
- front-side in/out wiring (3-pole) possible as standard due to 2 entries on one side
- variable cable entry possible through additional entries on the top of the enclosure at the front or in the centre, centring holes available
- homogeneous illumination by using frosted diffusers
- highest efficiency due to use of top-quality components
- high colour rendering CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- with  $\nabla$ -sign, suitable for rooms with increased fire risk
- highest flexibility due to almost unlimited modification possibilities
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
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## 161PX... VARIO



The luminous flux is variably adjustable to almost every value between 1.590lm and 5.900lm. Connected load and admis-

sible ambient temperature will change depending on the setting of the luminous flux.

16130 0090	<b>161PX 12L VARIO</b>	11	1.590	145	45	1 x 18W	2,8
		15	2.380	159	40	1 x 36W	
		22	3.400 <sup>2)</sup>	155	40	1 x 58W	
		27	4.220	156	40	2 x 36W	
		39	5.900	151	35	2 x 58W	

### Notes:

The light fitting is not to be used in areas with high mechanical stress (wind) or seldom usage (i.e. maintenance and inspection only).

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

## 161PX... VARIO 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:

Same as type 161PX 12L VARIO, but:

Diffuser: UV proof

Pressure compensation element: M20

Entries: 2 glands M20 at one small side, pressure compensation element M20 at the other small side, 1 screw plug M20.

#### Mounting:

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

16131 0090	<b>161PX 12L VARIO AUS</b>	11	1.590	145	45	1 x 18W	2,8
		15	2.380	159	40	1 x 36W	
		22	3.400 <sup>2)</sup>	155	40	1 x 58W	
		27	4.220	156	40	2 x 36W	
		39	5.900	151	35	2 x 58W	

1) Examples of possible settings

2) Factory setting

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

### 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 2.0mm)
- gasket 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





Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
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## 161PX... VARIO LM



### for application in food industry 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 161PX 12... VARIO but:

**Diffuser:** Shatterproof, high chemical resistance, cover for glare limitation fixed to reflector.

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

16132 0090	<b>161PX 12L VARIO LM</b>	11	1.590	145	45	1 x 18W	2,8
		15	2.380	159	40	1 x 36W	
		22	3.400 <sup>2)</sup>	155	40	1 x 58W	
		27	4.220	156	40	2 x 36W	
		39	5.900	151	35	2 x 58W	

1) Examples of possible settings

2) Factory setting

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

#### 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.

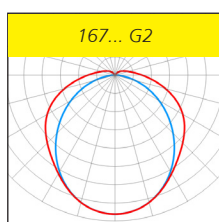
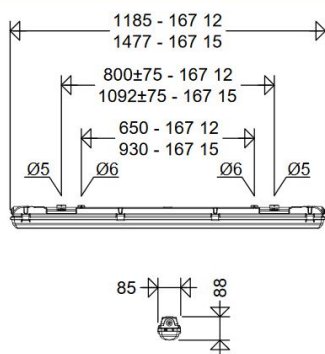
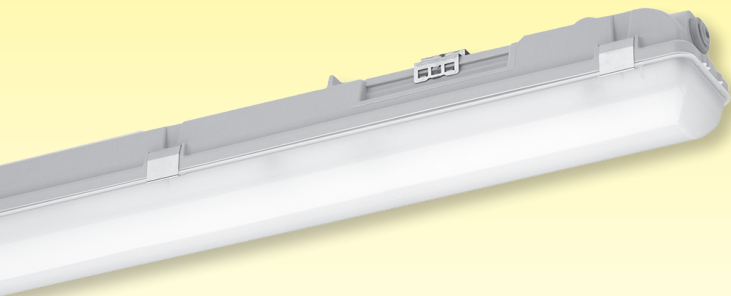


## Accessories / Spare Parts

Article No.	Type	
<b>Spare diffuser</b>		
16111 9041	<b>ABD 161PX 12</b>	PMMA, frosted
16111 9044	<b>ABD 161PX 12 PC</b>	PC, frosted
16111 9047	<b>ABD 161PX 12 LM</b>	LM, clear

Additional accessories see series 161PX...





## LUXANO 2

### Dustproof/Waterproof LED Light Fitting with Diffuser Series 167 ... G2

#### Applications:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks, hard to reach areas, areas with high downtime and maintenance cost when replacing the lamps. (For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

#### Design:

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

**Diffuser:** PMMA, frosted for glare limitation.

**Closures:** stainless steel, in order to ensure the protection against contact. The light fitting can be opened with a tool only.

**Reflector:** Painted, removable, completed with electronic components.

**Electrical connection:** 3-pole terminal block.

**Cable entries:** Variable, closed knock-outs on the short and long sides and on the backside, 2 blanking plugs M20.

**Mounting system:** 2 retaining clips made of stainless steel, 2 bracket for chain suspension (part of the delivery)

#### Technical data:

**LED:** Linear modules 4,000K, CRI > 80, service life  $L_{80} > 50,000$ h at max. ambient temperature, CRI > 80, **Type HE CS:** service life  $L_{90} > 50,000$ h at 25°C ambient temperature, service life  $L_{80} > 70,000$ h and  $L_{70} > 100,000$ h at max. ambient temperature

**ECG:** 220-240V, 50/60Hz

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

#### Options:

- 2,200K, 2,700K, 3,000K, 5,000K, 6,500K
- quick-connector „Fast Connect“ (FC)
- cable looping (RR)
- through wiring

#### Product highlights:

- quality product with high-quality components from well-known manufacturers
- homogeneous illumination by using frosted diffusers, no individual light spots visible, comfortable perception of light and excellent glare limitation
- $\nabla$ -symbol, suitable for rooms with increased fire risk
- closures made of stainless steel
- variable cable entries, closed knock-outs on the short and long sides, and on the backside
- FastFix quick mounting system, with retaining clips made of stainless steel for variable mounting distances, without opening the fitting.
- sustainable, control gear and LED-module replaceable by qualified personnel on-site

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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### 167... G2



16700 0012	167 15L34G2		28	3.850	138	35	1 x 58W	2,0
16700 0013	167 12L42G2		30	4.100	137	35	2 x 36W	1,7
16700 0014	167 15L60G2		43	6.000	140	35	2 x 58W	2,0
16700 0015	167 15L100G2		70	10.690	153	35	3 x 58W	2,0

### 167... G2 DIMD



#### dimmable via DALI interface

##### Design:

Same as standard version, but with DALI2-ECG and 2 additional clamping points, marked with DA, the polarity does not matter. Dimming level 1 -100%.

Compatible with LIMAS Line Light Management

System.

##### Note:

The lines to the control inputs must be mains voltage-proof and can be carried along in the connecting cable.

16700 0032	167 15L34G2 DIMD		28	3.850	138	35	1 x 58W	2,0
16700 0033	167 12L42G2 DIMD		30	4.100	137	35	2 x 36W	1,7
16700 0034	167 15L60G2 DIMD		43	6.000	140	35	2 x 58W	2,0
16700 0035	167 15L100G2 DIMD		70	10.690	153	35	3 x 58W	2,2

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

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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## 167... G2 DIMC



### with 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, cold stores etc.

#### Design:

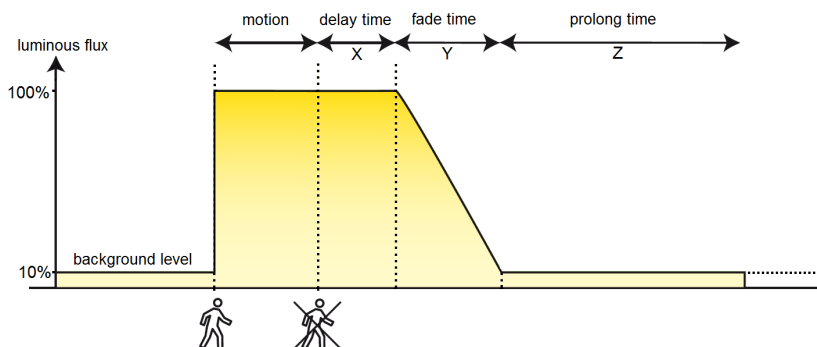
Same as standard version, but with dimmable ECG and additional clamping point, marked with L'.

#### Technical data:

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

#### Default settings:

- 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).



16700 0036	<b>167 15L34G2 DIMC</b>	28	3.850	138	35	1 x 58W	2,0
16700 0037	<b>167 12L42G2 DIMC</b>	30	4.100	137	35	2 x 36W	1,7
16700 0038	<b>167 15L60G2 DIMC</b>	43	6.000	140	35	2 x 58W	2,0
<b>NEW</b> 16700 0039	<b>167 15L100G2 DIMC</b>	70	10.690	153	35	3 x 58W	2,2

## 167... G2 DIMC-Z30



### with Corridor Mode and automatic switch-off function

#### Design:

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

#### Default settings different from DIMC types:

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

16700 0066	<b>167 15L34G2 DIMC-Z30</b>	28	3.850	138	35	1 x 58W	2,0
16700 0067	<b>167 12L42G2 DIMC-Z30</b>	30	4.100	137	35	2 x 36W	1,7
16700 0068	<b>167 15L60G2 DIMC-Z30</b>	43	6.000	140	35	2 x 58W	2,0
<b>NEW</b> 16700 0089	<b>167 15L100G2 DIMC-Z30</b>	70	10.690	153	35	3 x 58W	2,2

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



Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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## 167... G2 HE CS



### with smart LIMAS Air light control via radio

#### Applications:

Areas where no DALI lines are available or planned, but the luminaires are to be controlled intelligently.

#### Design:

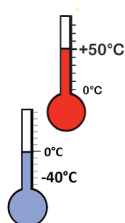
As standard version, but with CASAMBI®-enabled control gear for smart lighting control.

Explanations on smart light control as well as further system components (sensors / switches / pushbuttons etc.) can be found in the catalog section „Light Management - LIMAS Air“.

#### Product highlights:

- each individual luminaire separately controllable
- compatible with all LIMAS Air system components
- convenient configuration and control via Bluetooth using free smartphone app (Android and iOS)
- no gateway and no internet connection required
- extensive portfolio of sensors and actuators
- high-efficiency design (HE) for reduced energy consumption
- significant reduction of operating costs and CO<sub>2</sub> reduction

16700 0090	<b>167 12L42G2 HE CS</b>	1	27	4.100	152	40	2 x 36W	1,7
16700 0091	<b>167 15L60G2 HE CS</b>	1	39	6.000	154	40	2 x 58W	2,0



## 167... T40 / H50



### for wide temperature ranges from -40°C up to +50°C

16700 0082	<b>167 15L34G2 T40 H50</b>		25	3.710	148	50	1 x 58W	2,0
16700 0083	<b>167 12L42G2 T40 H50</b>		27	4.100	152	50	2 x 36W	1,7
16700 0084	<b>167 15L60G2 T40 H50</b>		39	6.000	154	50	2 x 58W	2,0

#### Notes:

1. In case of horizontal installation, the light fitting must be fixed directly with screws (washer and pressure disk are included) or it must be mounted with reinforced retaining clips (see accessories)!
2. The light fitting is not to be used in areas with high mechanical stress (wind) or seldom usage (i.e. maintenance and inspection only).
3. We recommend our series 144... in AUS-version or a weather roof within very critical environmental conditions.

## 167... G2 AUS



### for application in unprotected outdoor areas

#### Applications:

In protected and unprotected outdoor areas, mounted to walls, ceilings, catwalks, under canopies, bus stops, train stations, subways, construction sites, etc.

#### Design:

As type 167... G2, 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 system: 2 reinforced retaining clips (also suitable for horizontal wall mounting) made of stainless steel (part of the delivery)

16701 0012	<b>167 15L34G2 AUS</b>		28	3.850	138	35	1 x 58W	2,0
16701 0013	<b>167 12L42G2 AUS</b>		30	4.100	137	35	2 x 36W	1,7
16701 0014	<b>167 15L60G2 AUS</b>		43	6.000	140	35	2 x 58W	2,0
16701 0020	<b>167 15L100G2 AUS</b>		70	10.690	153	35	3 x 58W	2,0

#### 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.

## 167... G2 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 167... G2 but:

Diffuser: cover Polycarbonate, frosted.

16719 0012	<b>167 15L34G2 IFS</b>		28	3.850	138	35	1 x 58W	2,0
16719 0013	<b>167 12L42G2 IFS</b>		30	4.100	137	35	2 x 36W	1,7
16719 0014	<b>167 15L60G2 IFS</b>		43	6.000	140	35	2 x 58W	2,0
16719 0015	<b>167 15L100G2 IFS</b>		70	10.690	153	35	3 x 58W	2,0

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

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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## 167... G2 LW



### for application in stables and agriculture farming

#### Applications:

Pigsties with increased ammonia exposure, dairy cattle, cattle and horse barns.  
Damp, wet and dusty rooms in agricultural premises as well as rooms with increased fire risk due to combustible dusts, e.g. barns, straw and feed storage.

#### Design:

Same as type 167... G2 but with corrosion-proof and highly ammonia-resistant components.

Gasket: silicone

Cable entries: 1 gland M20 at one small side, blanking plug M20 at the other small side.

Mounting system: 2 reinforced retaining clips (also suitable for horizontal wall mounting), made of stainless steel, 2 brackets for chain suspension (part of the delivery).



#### Product highlights:

- permanently ammonia-resistant design
- corrosion-proof encapsulated electronic ballast
- highly resistant LED Modules with additional protective coating
- closures made of stainless steel
- ⚡-symbol, suitable for rooms with increased fire risk
- extremely efficient up to 174 lm/W
- none-flickering light to avoid stress and to ensure animal welfare
- DLG (German Agricultural Society) exam

16702 0013	<b>167 12L42G2 LW</b>		23	4.000	174	35	1 x 58W	1,7
16702 0014	<b>167 15L60G2 LW</b>		37	6.140	166	35	2 x 58W	2,0

#### Note:

The light fitting 167 ... G2 ER DIMD is not suitable for use in pig stalls! We recommend using our 107... PRIMO XR LW DIMD series.



## 167... G2 ER DIMD



### for application in stables and agriculture farming

#### Applications:

In poultry farming in accordance with the German Animal Welfare (TierSCHNutzTV), dairy cattle, cattle and horse stables.  
Damp, wet and dusty rooms in agricultural premises as well as rooms with increased fire risk due to combustible dusts, e.g. barns, straw and feed stores.

#### Design:

Like version 167 ... G2 LW but with DALI2-ECG (not encapsulated in a corrosion-proof manner) and 2 additional terminal points, labeled „DA“, polarity is irrelevant. Dimming level 1-100%.

Compatible with LIMAS Line Light Management System.

**Note:** The lines to the control inputs must be mains voltage-proof and can be carried along in the connecting cable.

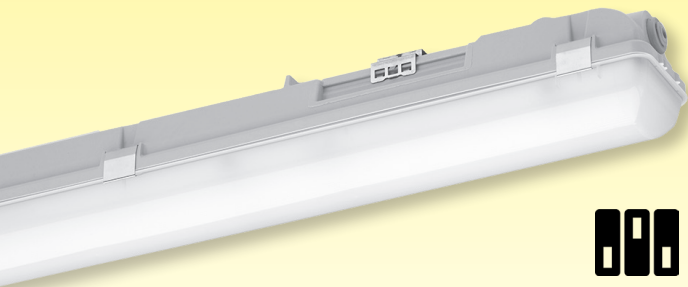
16702 0023	<b>167 12L42G2 ER DIMD</b>		24	4.170	174	35	2 x 36W	1,7
16702 0024	<b>167 15L60G2 ER DIMD</b>		37	6.140	166	35	2 x 58W	2,0

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

## Accessories / Spare Parts

Article no.	Type	
<b>spare glasses, PMMA, frosted</b>		
16711 9003	<b>ABD 167 12 G2</b>	cover, frosted PMMA diffuser, for 167 12 ... G2
16711 9004	<b>ABD 167 15 G2</b>	cover, frosted PMMA diffuser, for 167 15 ... G2
16711 9005	<b>ABD 167 12 G2 PC</b>	cover, frosted PC diffuser, for 167 12 ... G2
16711 9006	<b>ABD 167 15 G2 PC</b>	cover, frosted PC diffuser, for 167 15... G2
<b>Fasteners</b>		
90123 9008	<b>167G2 KE V10</b>	stainless steel (packing unit 10)
<b>Cable entries/pressure compensation elements</b>		
90063 9000	<b>2511</b>	blanking plug M20
25610 9000	<b>2561</b>	plastic cable gland M20 x 1,5
90259 9002	<b>DAE20</b>	pressure compensation element M20 for ... AUS
<b>Accessories</b>		
90049 0004	<b>167 VBC P</b>	retaining clips, reinforced for horizontal wall mount (1 pair)





## LUXANO 2

### Highly efficient Dustproof/Waterproof LED Luminaire with Diffuser with variably adjustable luminous flux Series 167... G2 HE VARIO

#### Applications:

Factories in which, for reasons of maximum standardization and economic storage, only one type of damp-proof luminaire is to be used, which can be used for a wide variety of lighting tasks due to its variably adjustable luminous flux. (For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

#### Design:

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

**Diffuser:** PMMA, frosted for glare limitation.

**Closures:** Stainless Steel. In order to ensure the protection against contact, the luminaire can be opened with a tool only.

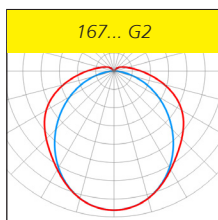
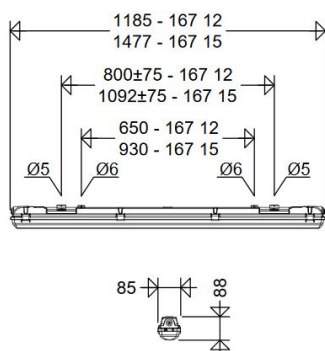
**Reflector:** Painted, removable, completed with electronic components.

**DIP switch** for setting the luminous flux of the luminaire.

**Electrical connection:** 3-pole terminal block.

**Cable entries:** Variable, closed knock-outs on the short and long sides and on the backside, 2 blanking plugs M20.

**Mounting system:** 2 retaining clips made of stainless steel, 2 bracket for chain suspension (part of the delivery)



#### Technical data:

**LED:** Linear modules 4,000K, CRI > 80, service life  $L_{90} > 50.000h$  at 25°C ambient temperature, service life  $L_{80} > 70.000h$  and  $L_{70} > 100.000h$  at max. ambient temperature

**ECG:** 220-240V, 50/60Hz

**Ambient temperature:** -20°C up to +35/40°C see article table

#### Options:

- through wiring
- quick-connector „Fast Connect“ (FC)
- cable looping (RR)
- unprotected outdoor areas (AUS)
- for food areas: with PC diffuser, frosted and stainless steel clips (IFS)

#### Product highlights of the HE VARIO version:

- highly efficient design for reduced energy consumption
- universally usable due to variable setting of the luminous flux, depending on the requirement
- simple and quick adjustment on-site without tools
- can be changed at any time (e.g. change of use of the premises with new requirements in regard to the level of illumination)
- great versatility, thus economical storage due to standardization (only one light fitting instead of multiple versions)

#### General product highlights of the LUXANO 2 series:

- homogeneous illumination by using frosted diffusers, no individual light spots visible, comfortable perception of light and excellent glare limitation
- high colour reproduction CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- $\nabla$ -symbol, suitable for rooms with increased fire risk
- closures made of stainless steel
- variable cable entries, closed knock-outs on the short and long sides, and on the backside
- FastFix quick mounting system, with retaining clips made of stainless steel for variable mounting distances, without opening the fitting.
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using LED-modules according to Zhaga standard



**Properties, limitations and details for controlling LED-light fittings:**  
See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Amb. temp. max. [°C]	Substitute for ca. *	(without packing material)
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## 167... G2 HE VARIO



The luminaire luminous flux can be set to four values. Depending on the set luminous flux, the power consumption of the light fitting and the maximum permissible ambient temperature change.

16704 0001	<b>167 12LG2 HE VARIO</b>	20	3.240 <sup>1)</sup>	162	40	1 x 58W	1,7
		25	4.020	161	40	>1 x 58W	
		29	4.620	159	40	2 x 36W	
		34	5.280	155	35	>2 x 36W	
16704 0002	<b>167 15LG2 HE VARIO</b>	25	4.050	162	40	>1 x 58W	2,0
		31	4.960	160	40	2 x 36W	
		36	5.810 <sup>1)</sup>	161	40	2 x 58W	
		43	6.660	155	35	>2 x 58W	

1) Factory setting

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



Dustproof/Waterproof  
Light Fittings

## Accessories / Spare Parts

Article no.	Type	
<b>spare glasses, PMMA, frosted</b>		
16711 9003	<b>ABD 167 12 G2</b>	PMMA for 167 12L.. G2
16711 9004	<b>ABD 167 15 G2</b>	PMMA for 167 15L.. G2
<b>Fasteners</b>		
90123 9008	<b>167G2 KE V10</b>	stainless steel (packing unit 10)
<b>Cable entries/pressure compensation elements</b>		
90063 9000	<b>2511</b>	blanking plug M20
25610 9000	<b>2561</b>	plastic cable gland M20 x 1,5
<b>Accessories</b>		
90049 0004	<b>167 VBC P</b>	retaining clips, reinforced for horizontal wall mount (1 pair)

## SEGURO

### Vandal Proof LED Light Fitting

#### Series 142...

##### Applications:

Subways, railway stations, underground stations, car parks, lavatories, schools, sport stadiums, stairways, bus-stops, prisons etc.

(For damp and cold ambient conditions with low duty cycles and in the case of aggressive atmosphere, please contact us)

##### Design:

**Housing:** Flat, sturdy aluminium profile, powder-coated, RAL 9016 (traffic white). Concealed cable tray and mounting holes on the back, all-round silicone gasket.

**Cover:** Frosted polycarbonate, with die-cast aluminium end caps, concealed screw fixing, detachable and removable.

**Reflector:** Aluminium, white painted, with Zhaga-compliant LED modules.

**Fasteners:** With stainless steel safety screws M6 (TORX Tx30 with pin) counter-sunk in the end caps, the cover and end caps are screwed to the housing.

**Electrical connection:** 3-pole connection terminal; max. 2.5mm<sup>2</sup>.

**Cable entries:** 2 x Ø 20mm with sealing plugs, concealed in the end cap on the face side, for in-out and continuous row wiring.

**Mounting system:** 4 holes Ø 8mm, concealed. Please use screws Ø 6mm for mounting.

##### Note:

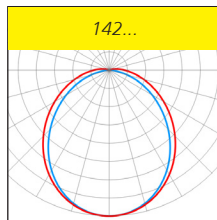
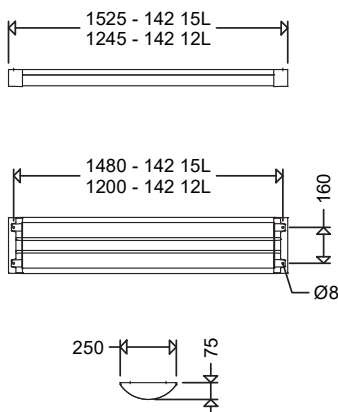
For applications in seaside areas we do recommend enclosures in special design with KTL coating.

##### Technical data:

**LED:** Linear modules 4,000K, CRI > 80, service life L<sub>90</sub> > 50.000h at 25°C ambient temperature, service life L<sub>80</sub> > 70.000h and L<sub>70</sub> > 100.000h at max. ambient temperature

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

**Ambient temperature:** -20°C bis +40°C



##### Options:

- 2,200K, 2,700K, 3,000K, 5,000K, 6,500K
- signalization with **coloured LED**
- for higher ambient temperatures
- special paint finish in any RAL colours
- protection class II (SKII)
- asymmetrical light distribution
- for connection to group or central battery systems (ZB) or emergency mains respectively
- with dimming function via DALI2 interface, compatible with LIMAS Line BASIC/PRO (DIMD) Light Management System
- through wiring up to 7x2.5 mm
- cable looping at 1 small side (RR)

##### Product highlights:

- extremely flat and sturdy design
- highly efficient with high luminous efficacy and low power consumption
- polycarbonate diffuser of high-impact resistant, IK value acc. to EN 50102 > 2 x IK10 (≥ 40 joule min.)
- homogeneous illumination by using frosted covers, no particular light points visible, comfortable perception of light, brilliant glare limitation
- safe function of the LED even in case of impacts or vibrations
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using LED-modules according to Zhaga standard



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Substitute for *	Weight [kg] without packing material
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#### 142 ...

14200 0003	<b>142 12L22</b>	17	2.550	150	1 x 36W	7,7
14200 0004	<b>142 12L42</b>	29	4.120	142	2 x 36W	7,7
14200 0007	<b>142 12L60</b>	39	5.490	140	2 x 58W	7,7

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

#### Accessories / Spare Parts

Article No.	Type	
14211 9000	<b>EK 142</b>	End cap, powder-coated aluminium RAL 9016
14211 9002	<b>ABD 142 12</b>	cover, frosted PC diffuser, for 142 12 ...
90063 9000	<b>2511</b>	blanking plug M20

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



**NEW**

## VIA LED Outdoor Light Fitting Series 51...

### Applications:

Residential streets, by-roads, traffic-calmed zones, parks, walkways and cycle tracks, pedestrian zones, car parks, gateways

### Design:

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000$ h, Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

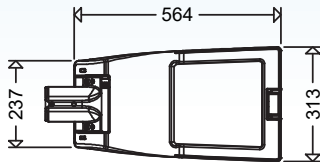
**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

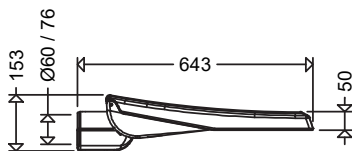
**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

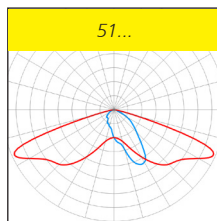
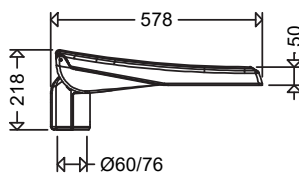
- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics asymmetrical extremely wide beam (ABX)
- optics for cycle track (RVX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 15,300lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length



### Pole-top installation



### Pole-mounted installation



### Product highlights:

- durable, corrosion-resistant die-cast aluminium housing with flat surface without cooling fins, no dirt build-up.
- can be opened without tools (central locking)
- no uncomfortable „working overhead“, luminaire opens upwards
- universal mast mounting for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- tool-free replacement of ECG (support plate, disconnecting plug, clamping spring)
- tool-free replacement of LED module (support plate, disconnect plug, clamping spring) time- and cost-saving component replacement at end of life
- time- and cost-saving retrofitting in case of further technical development or use of other/warmest light colours
- uniform illumination due to multi-layer technology
- integrated pressure equalisation system prevents condensation in the interior
- eco-friendly, no light emission into the upper half-space, ULOR=0
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)
- GreenLine luminaire, outstanding sustainable design

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

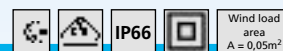
See „Technical Supplement“

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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51...



#### colour temperature 4.000K (light colour 740)

51000 0001	51 0801	9	1.410	157	8,0
51000 0002	51 0802	13	1.920	148	8,0
51000 0003	51 0803	18	2.600	144	8,0
51000 0004	51 1601	17	2.710	159	8,0
51000 0005	51 1602	25	3.690	148	8,0
51000 0006	51 1603	35	5.000	143	8,0
51000 0007	51 2401	26	4.100	158	8,1
51000 0008	51 2402	37	5.560	150	8,1
51000 0009	51 2403	53	7.500	142	8,4
51000 0010	51 3201	34	5.470	161	8,5
51000 0011	51 3202	50	7.410	148	8,5
51000 0012	51 3203	70	10.000	143	8,5

#### colour temperature 3.000K (light colour 730)

51000 0037	51 0801 730	9	1.320	147	8,0
51000 0038	51 0802 730	13	1.800	138	8,0
51000 0039	51 0803 730	18	2.440	136	8,0
51000 0040	51 1601 730	17	2.550	150	8,0
51000 0041	51 1602 730	25	3.470	139	8,0
51000 0042	51 1603 730	35	4.700	134	8,0
51000 0043	51 2401 730	26	3.850	148	8,1
51000 0044	51 2402 730	37	5.220	141	8,1
51000 0045	51 2403 730	53	7.050	133	8,4
51000 0046	51 3201 730	34	5.140	151	8,5
51000 0047	51 3202 730	50	6.970	139	8,5
51000 0048	51 3203 730	70	9.400	134	8,5

Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



Outdoor  
Light Fittings

RZ 76/42 VIA - Adapter for mast top ø of 42mm, black



Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

## Accessories / Spare Parts

Article No.	Type	
51010 9000	ABD 51	flat safety glass cover
90309 0001	RZ 76/42 VIA	adapter for mast top ø of 42mm, black
90113 0016	HA 08/L25 AB VS	backside light shielding for 51 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 51 16..
90113 0018	HA 24/L75 AB VS	backside light shielding for 51 24..
90113 0019	HA 32/L100 AB VS	backside light shielding for 51 32..

Subject to technical changes, misprints and errors.



**NEW**

## VIA LED Outdoor Light Fitting with variable setting of the luminous flux Series 51... VARIO

### Applications:

Residential streets, by-roads, traffic-calmed zones, parks, walkways and cycle tracks, pedestrian zones, car parks, gateways

### Design:

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Switch** for setting the luminous flux of the luminaire.

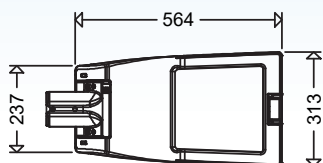
**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

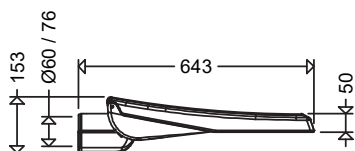
**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

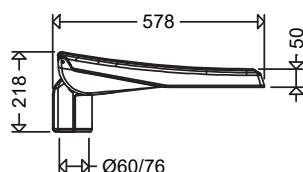
**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.



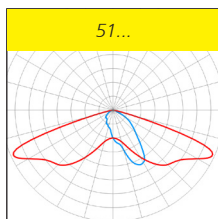
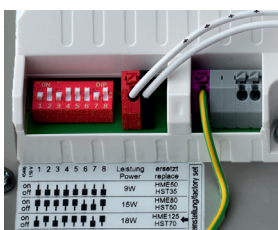
### Pole-top installation



### Pole-mounted installation



### DIP switch for setting the luminous flux



### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics asymmetrical extremely wide beam (ABX)
- optics for cycle track (RWX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 15,300lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length

### Product highlights:

- simple, fast, tool-free setting of the luminous flux on site, by means of integrated switch, can be changed at any time
- three types replace several conventional lights and thus **reduce the variety of types**
- durable, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins, no dirt build-up.
- **can be opened without tools** (central locking)
- **universal mast mounting** for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- easy insertion of cable into connection compartment via cable gland
- **tool-free replacement of ECG and LED module** (support plate, disconnecting plug, clamping spring) time- and cost-saving component replacement at the end of service life, in case of retrofitting due to technical advancement, use of other/ warmer light colours, etc.
- uniform illumination due to multi-layer technology
- integrated pressure equalisation system prevents condensation in the interior
- **eco-friendly**, no light emission into the upper half-space, **ULOR=0**
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the **Dark Sky requirements**
- **sustainable**, control gear and LED-module replaceable by qualified personnel on-site
- **future proof** by using standardized LED-modules (Zhaga)
- **GreenLine luminaire**, outstanding sustainable design

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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## 51... VARIO



The luminous flux is variably adjustable. The connected load will change depending on the setting of the luminous flux. In the table you will find examples of settings with reference to common conventional versions. Intermediate values are also possible. Setting table on request.

### colour temperature 4.000K (light colour 740)

51001 0001	<b>51 L50 VARIO</b>	9 - 35	1.160 - 5.000	160	HST 35 - 2 x HST 70	8,5
51001 0002	<b>51 L100 VARIO</b>	16 - 70	2.340 - 10.000	161	HST 50 - HSE 150	8,6

### colour temperature 3.000K (light colour 730)

51001 0004	<b>51 L50 VARIO 730</b>	9 - 35	1.090 - 4.700	150	HST 35 - 2 x HST 70	8,5
51001 0005	<b>51 L100 VARIO 730</b>	16 - 70	2.200 - 9.400	151	HST 50 - HSE 150	8,6

Factory setting L50: 18 W; replaces approx. HME 125, HST 70      Factory setting L100: 54 W; replaces approx. HME 250

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.      1) possible setting range

Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



RZ 76/42 VIA - Adapter for mast top ø of 42mm, black

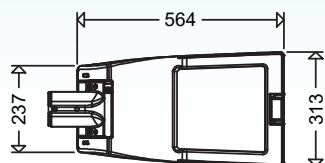


Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

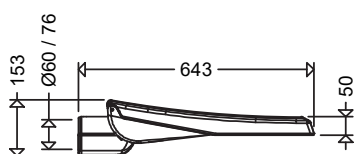
## Accessories / Spare Parts

Article No.	Type	
51010 9000	<b>ABD 51</b>	flat safety glass cover
90309 0001	<b>RZ 76/42 VIA</b>	adapter for mast top ø of 42mm, black
90113 0017	<b>HA 16/L50 AB VS</b>	backside light shielding for 51 L50
90113 0019	<b>HA 32/L100 AB VS</b>	backside light shielding for 51 L100

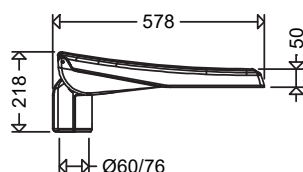
NEW



#### Pole-top installation



#### Pole-mounted installation



## VIA LED Outdoor Light Fitting with variable setting of the luminous flux Series 51... VARIO NFC

### Applications:

Residential streets, by-roads, traffic-calmed zones, parks, walkways and cycle tracks, pedestrian zones, car parks, gateways

### Design:

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Setting the luminous flux:** Adjustments via Smartphone-App (see technical Supplement). Link to the App: Adjustments via Smartphone-App (see technical Supplement).

plement). Link to the App: See instruction label on the light fitting.

**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection. The settings are made directly on the ECG by means of an app via NFC. In conjunction with devices with an Android operating system, the ECG's NFC interface is used for this purpose. For interference-free communication, we recommend the use of a Bluetooth/NFC adapter. For devices with iOS, the adapter (see accessories) is always required, since the NFC interface is not released for such purposes by Apple.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

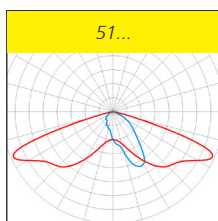
**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

### Digital dimming with DALI interface (DIMD)

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722
- 1,800K, light colour 518 „Amber“
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics asymmetrical extremely wide beam (ABX)
- optics for cycle track (RWX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 15,300lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length



### Product highlights:

- simple, fast, tool-free adjustment of the luminous flux on site via app (iOS or Android), subsequently changeable at any time.
- Luminaire can be parameterized voltage-free before mounting
- highly economical storage due to reduction of type variety
- universal mast mounting for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- easy insertion of cable into connection compartment via cable gland
- tool-free replacement of ECG and LED module (support plate, disconnecting plug, clamping spring)
- time- and cost-saving component replacement at the end of service life, in case of retrofitting due to technical advancement, use of other/ warmer light colours, etc.
- integrated pressure equalisation system prevents condensation in the interior
- eco-friendly, no light emission into the upper half-space,  $ULOR=0$
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)
- GreenLine luminaire, outstanding sustainable design

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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## 51... VARIO NFC



The luminous flux is variably adjustable. The connected load will change depending on the setting of the luminous flux. In the table you will find examples of settings with reference to common conventional versions. Intermediate values are also possible. Setting table on request.

### colour temperature 4.000K (light colour 740)

51002 0001	<b>51 L50 NFC</b>	9 - 35	1.160 - 5.000	160	HST 35 - 2 x HST 70	8,5
51002 0002	<b>51 L100 NFC</b>	16 - 70	2.340 - 10.000	161	HST 50 - HSE 150	8,6

### colour temperature 3.000K (light colour 730)

51002 0003	<b>51 L50 NFC 730</b>	9 - 35	1.090 - 4.700	150	HST 35 - 2 x HST 70	8,5
51002 0004	<b>51 L100 NFC 730</b>	16 - 70	2.200 - 9.400	151	HST 50 - HSE 150	8,6

Factory setting L50: 18 W; replaces approx. HME 125, HST 70      Factory setting L100: 54 W; replaces approx. HME 250

\* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.      1) possible setting range

**Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).**

RZ 76/42 VIA - Adapter for mast top ø of 42mm, black



Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

## Accessories / Spare Parts

Article No.	Type	
51010 9000	<b>ABD 51</b>	flat safety glass cover
90309 0001	<b>RZ 76/42 VIA</b>	adapter for mast top ø of 42mm, black
90113 0017	<b>HA 16/L50 AB VS</b>	backside light shielding for 51 L50
90113 0019	<b>HA 32/L100 AB VS</b>	backside light shielding for 51 L100
90545 0029	<b>NFC-Scanner Bluetooth/NFC</b>	for interference-free communication and for iOS operating system

**NEW**

## VIA LED Outdoor Light Fitting Ready for Light Management System Series 51... RFL

### Applications:

Residential streets, by-roads, traffic-calmed zones, parks, walkways and cycle tracks, pedestrian zones, car parks, gateways

### Design:

The luminaires are prepared for the subsequent use of a light management system. An integrated socket allows retrofitting of light management components without tools.

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.

Exclusively D4i control gear is being used in RFL luminaires from SCHUCH.

All D4i Zhaga Book 18 certified controllers and D4i Zhaga Book 18 certified sensors available on the market can be used in combination with RFL luminaires from SCHUCH. Controllers and sensors which do not comply with the D4i standard can limit the functionality of the luminaires and components. Moreover, in individual cases, such non-certified components may cause damage to both the luminaires and the components.

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

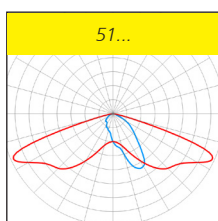
On request, the luminaires are also available with the following configurations:

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

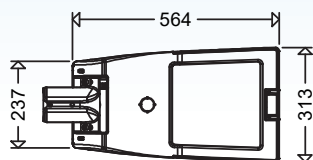
### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class I (SKI)
- optics asymmetrical extremely wide beam (ABX)
- optics for cycle track (RWX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 15,300lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length

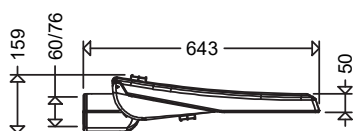


### Product highlights:

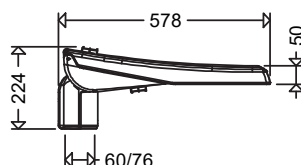
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the light management system components
- standardized Zhaga compliant sockets allow free choice of light management system
- durable, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins, no dirt build-up.
- universal mast mounting for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- tool-free replacement of ECG and LED module (support plate, disconnecting plug, clamping spring) time- and cost-saving component replacement at the end of service life, in case of retrofitting due to technical advancement, use of other/ warmer light colours, etc.
- integrated pressure equalisation system prevents condensation in the interior
- eco-friendly, no light emission into the upper half-space, ULOR=0
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)
- GreenLine luminaire, outstanding sustainable design



Pole-top installation



Pole-mounted installation



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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



**Stand-alone solution**  
Can also be used as a stand-alone solution with motion detector.



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 51... RFLO



with a socket on the top side of the luminaire  
colour temperature 4.000K (light colour 740)

51003 0001	51 0803 RFLO	18	2.600	144	8,0
51003 0002	51 1603 RFLO	35	5.000	143	8,0
51003 0003	51 2403 RFLO	53	7.500	142	8,4
51003 0004	51 3203 RFLO	70	10.000	143	8,5

colour temperature 3.000K (light colour 730)

51003 0013	51 0803 730 RFLO	18	2.440	136	8,0
51003 0014	51 1603 730 RFLO	35	4.700	134	8,0
51003 0015	51 2403 730 RFLO	53	7.050	133	8,4
51003 0016	51 3203 730 RFLO	70	9.400	134	8,5

## 51... RFLU



with a socket on the bottom side of the luminaire  
colour temperature 4.000K (light colour 740)

51003 0005	51 0803 RFLU	18	2.600	144	8,0
51003 0006	51 1603 RFLU	35	5.000	143	8,0
51003 0007	51 2403 RFLU	53	7.500	142	8,4
51003 0008	51 3203 RFLU	70	10.000	143	8,5

colour temperature 3.000K (light colour 730)

51003 0017	51 0803 730 RFLU	18	2.440	136	8,0
51003 0018	51 1603 730 RFLU	35	4.700	134	8,0
51003 0019	51 2403 730 RFLU	53	7.050	133	8,4
51003 0020	51 3203 730 RFLU	70	9.400	134	8,5

## 51... RFLOU



with a socket on the top and bottom side of the luminaire  
colour temperature 4.000K (light colour 740)

51003 0009	51 0803 RFLOU	18	2.600	144	8,0
51003 0010	51 1603 RFLOU	35	5.000	143	8,0
51003 0011	51 2403 RFLOU	53	7.500	142	8,4
51003 0012	51 3203 RFLOU	70	10.000	143	8,5

colour temperature 3.000K (light colour 730)

51003 0021	51 0803 730 RFLOU	18	2.440	136	8,0
51003 0022	51 1603 730 RFLOU	35	4.700	134	8,0
51003 0023	51 2403 730 RFLOU	53	7.050	133	8,4
51003 0024	51 3203 730 RFLOU	70	9.400	134	8,5

Also available with output reduction LA or constant luminous flux function CL as well as combinations of these functions CL LA.

RFL LIMAS HUB3 G2 / RFL LIMAS HUB3 G2 GPS SIM



RFL LIMAS BM RAD HUB LPH max. 8m



RFL LIMAS BM RAD MA LPH max. 10m



RFL DS20 HUB 20lux ON/OFF



RFL BM/DS IR HUB LPH max. 8m



RFL BM/DS IR HUB LPH max. 12m



LIMAS USB-Dongle



~~LIMAS Gateway 3 EU~~



## System components

Article No.	Type	
90546 9014	RFL LIMAS HUB3 G2	control element with photocell/ twilight switch
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	control element with photocell/ twilight switch, GPS antenna and SIM card
90546 9011	RFL LIMAS BM RAD HUB LPH max. 8m	control element / radar motion detector
90546 9012	RFL LIMAS BM RAD MA LPH max. 10m	control element / radar motion detector
90546 9000	RFL DS20 HUB 20lux ON/OFF	twilight switch
90546 9004	RFL BM/DS IR HUB LPH max. 8m	infrared motion detector can only be used in conjunction with Controller HUB3 (90546 9009) or Controller HUB3 G2 GPS SIM (90546 9010)
90546 9006	RFL BM/DS IR HUB LPH max. 12m	infrared motion detector / twilight switch standalone capability

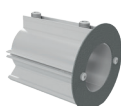
Other sensors, e.g. environmental sensors (fine dust, CO<sub>2</sub>, weather station etc.) on request.

## Control components

Article No.	Type	
90545 0001	LIMAS USB-Dongle	Enables wireless connection from tablet (or other mobile device with USB interface and Windows® operating system) to luminaire. For setting up and diagnosing the lighting system.
<del>90545 0004</del>	<del>LIMAS Gateway 3 EU</del> no longer available	<del>Enables remote access to control and monitor the lighting system: Access via mobile network or Ethernet (LAN / WLAN).</del>



RZ 76/42 VIA - Adapter for mast top ø of 42mm, black



Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

## Accessories / Spare Parts

Article No.	Type	
51010 9000	ABD 51	cover, pane safety glas clear, for 51...
90309 0001	RZ 76/42 VIA	adapter for mast top ø of 42mm, black
90113 0016	HA 08/L25 AB VS	backside light shielding for 51 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 51 16..
90113 0018	HA 24/L75 AB VS	backside light shielding for 51 24..
90113 0019	HA 32/L100 AB VS	backside light shielding for 51 32..

Subject to technical changes, misprints and errors.



NEW

## VIA LED Outdoor Light Fitting Series 52...

### Applications:

Side and main streets, roundabouts, factory streets in industrial plants, car parks, gateways etc.

### Design:

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

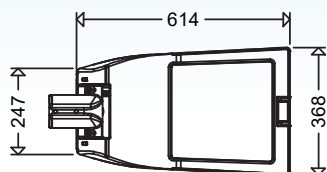
**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

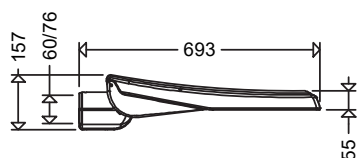
**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

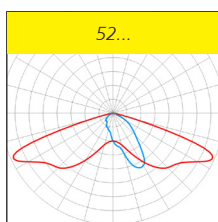
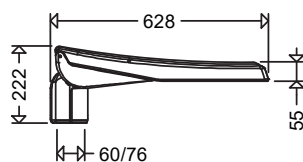
**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.



### Pole-top installation



### Pole-mounted installation



### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000$ h, Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics asymmetrical extremely wide beam (ABX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 25,000lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length

### Product highlights:

- durable, corrosion-resistant die-cast aluminium housing with flat surface without cooling fins, no dirt build-up.
- can be opened without tools (central locking)
- no uncomfortable „working overhead“, luminaire opens upwards
- universal mast mounting for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- easy insertion of cable into connection compartment via cable gland
- tool-free replacement of ECG (support plate, disconnecting plug, clamping spring)
- tool-free replacement of LED module (support plate, disconnect plug, clamping spring) time- and cost-saving component replacement at end of life
- time- and cost-saving retrofitting in case of further technical development or use of other/warmest light colours
- uniform illumination due to multi-layer technology
- integrated pressure equalisation system prevents condensation in the interior
- eco-friendly, no light emission into the upper half-space, ULOR=0
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)
- GreenLine luminaire, outstanding sustainable design

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

See „Technical Supplement“

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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**52...**



#### colour temperature 4.000K (light colour 740)

52000 0001	<b>52 3201</b>	34	5.630	166	10,7
52000 0002	<b>52 3202</b>	50	7.630	153	10,7
52000 0003	<b>52 3203</b>	70	10.300	147	10,7
52000 0004	<b>52 4801</b>	52	8.420	162	10,7
52000 0005	<b>52 4802</b>	75	11.370	152	10,7
52000 0006	<b>52 4803</b>	106	15.300	144	10,7
52000 0007	<b>52 6401</b>	69	11.420	166	10,8
52000 0008	<b>52 6402</b>	99	15.180	153	10,8
52000 0009	<b>52 6403</b>	140	20.200	144	10,8

#### colour temperature 3.000K (light colour 730)

52000 0013	<b>52 3201 730</b>	34	5.290	156	10,7
52000 0014	<b>52 3202 730</b>	50	7.170	143	10,7
52000 0015	<b>52 3203 730</b>	70	9.680	138	10,7
52000 0016	<b>52 4801 730</b>	52	7.920	152	10,7
52000 0017	<b>52 4802 730</b>	75	10.690	143	10,7
52000 0018	<b>52 4803 730</b>	106	14.380	136	10,7
52000 0019	<b>52 6401 730</b>	69	10.730	156	10,8
52000 0020	<b>52 6402 730</b>	99	14.270	144	10,8
52000 0021	<b>52 6403 730</b>	140	18.990	136	10,8

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).

RZ 76/42 VIA - Adapter for mast top Ø of 42mm, black

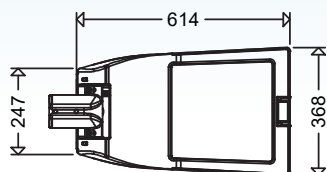


Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

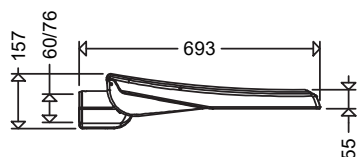
## Accessories / Spare Parts

Article No.	Type	
52010 9000	<b>ABD 52</b>	flat safety glass cover
90309 0001	<b>RZ 76/42 VIA</b>	adapter for mast top Ø of 42mm, black
90113 0019	<b>HA 32/L100 AB VS</b>	backside light shielding for 52 32..
90113 0020	<b>HA 48/L150 AB VS</b>	backside light shielding for 52 48..
90113 0021	<b>HA 64/L210 AB VS</b>	backside light shielding for 52 64..

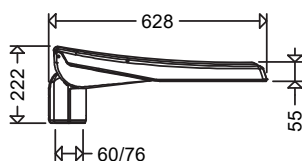
NEW



#### Pole-top installation



#### Pole-mounted installation



## VIA LED Outdoor Light Fitting with variable setting of the luminous flux Series 52... VARIO

### Applications:

Side and main streets, roundabouts, factory streets in industrial plants, car parks, gateways etc.

### Design:

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Switch** for setting the luminous flux of the luminaire.

**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

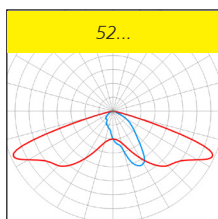
**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics asymmetrical extremely wide beam (ABX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 25,000lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length



### Product highlights:

- simple, fast, tool-free setting of the luminous flux on site, by means of integrated switch, can be changed at any time
- three types replace several conventional lights and thus **reduce the variety of types**
- durable, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins, no dirt build-up.
- **can be opened without tools** (central locking)
- **universal mast mounting** for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- easy insertion of cable into connection compartment via cable gland
- **tool-free replacement of ECG and LED module** (support plate, disconnecting plug, clamping spring) time- and cost-saving component replacement at the end of service life, in case of retrofitting due to technical advancement, use of other/ warmer light colours, etc.
- uniform illumination due to multi-layer technology
- integrated pressure equalisation system prevents condensation in the interior
- **eco-friendly**, no light emission into the upper half-space, **ULOR=0**
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the **Dark Sky requirements**
- **sustainable**, control gear and LED-module replaceable by qualified personnel on-site
- **future proof** by using standardized LED-modules (Zhaga)
- **GreenLine luminaire**, outstanding sustainable design

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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## 52... VARIO



The luminous flux is variably adjustable. The connected load will change depending on the setting of the luminous flux. In the table you will find examples of settings with reference to common conventional versions. Intermediate values are also possible. Setting table on request.

### colour temperature 4.000K (light colour 740)

52001 0001	<b>52 L100 VARIO</b>	16 - 70	2.410 - 10.300	166	HST 50 - HSE 150	10,7
52001 0002	<b>52 L150 VARIO</b>	24 - 106	3.610 - 15.300	160	2 x HME 80 - 2 x HME 250	10,7
52001 0003	<b>52 L210 VARIO</b>	32 - 140	4.890 - 20.200	160	2 x HST 70 - HME 400	10,8

### colour temperature 3.000K (light colour 730)

52001 0005	<b>52 L100 VARIO 730</b>	16 - 70	2.270 - 9.680	156	HST 50 - HSE 150	10,7
52001 0006	<b>52 L150 VARIO 730</b>	24 - 106	3.390 - 14.380	151	2 x HME 80 - 2 x HME 250	10,7
52001 0007	<b>52 L210 VARIO 730</b>	32 - 140	4.600 - 18.990	151	2 x HST 70 - HME 400	10,8

Factory setting L100: 54 W; replaces approx. HME 250  
Factory setting L200: 140 W; replaces approx. HME 400

Factory setting L150: 106 W; replaces approx. 2 x HME 250

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

1) possible setting range

**Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).**

RZ 76/42 VIA - Adapter for mast top ø of 42mm, black

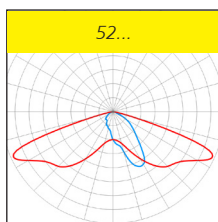


Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

## Accessories / Spare Parts

Article No.	Type	
52010 9000	<b>ABD 52</b>	flat safety glass cover
90309 0001	<b>RZ 76/42 VIA</b>	adapter for mast top ø of 42mm, black
90113 0019	<b>HA 32/L100 AB VS</b>	backside light shielding for 52 L100
90113 0020	<b>HA 48/L150 AB VS</b>	backside light shielding for 52 L150
90113 0021	<b>HA 64/L210 AB VS</b>	backside light shielding for 52 L210





Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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## 52... VARIO NFC



The luminous flux is variably adjustable. The connected load will change depending on the setting of the luminous flux. In the table you will find examples of settings with reference to common conventional versions. Intermediate values are also possible. Setting table on request.

### colour temperature 4.000K (light colour 740)

52002 0001	<b>52 L100 NFC</b>	16 - 70	2.410 - 10.300	166	HST 50 - HSE 150	10,7
52002 0002	<b>52 L150 NFC</b>	24 - 106	3.610 - 15.300	160	2 x HME 80 - 2 x HME 250	10,7
52002 0003	<b>52 L210 NFC</b>	32 - 140	4.890 - 20.200	160	2 x HST 70 - HME 400	10,8

### colour temperature 3.000K (light colour 730)

52002 0004	<b>52 L100 NFC 730</b>	16 - 70	2.270 - 9.680	156	HST 50 - HSE 150	10,7
52002 0005	<b>52 L150 NFC 730</b>	24 - 106	3.390 - 14.380	151	2 x HME 80 - 2 x HME 250	10,7
52002 0006	<b>52 L210 NFC 730</b>	32 - 140	4.600 - 18.990	151	2 x HST 70 - HME 400	10,8

Factory setting L100: 54 W; replaces approx. HME 250  
Factory setting L200: 140 W; replaces approx. HME 400

Factory setting L150: 106 W; replaces approx. 2 x HME 250

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

1) possible setting range

Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).

RZ 76/42 VIA - Adapter for mast top ø of 42mm, black



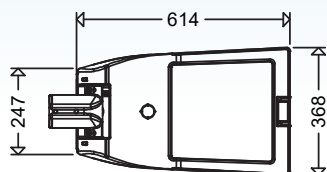
Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

## Accessories / Spare Parts

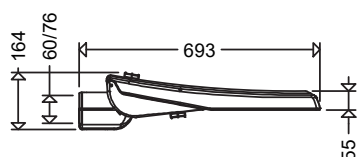
Article No.	Type	
52010 9000	<b>ABD 52</b>	flat safety glass cover
90309 0001	<b>RZ 76/42 VIA</b>	adapter for mast top ø of 42mm, black
90113 0019	<b>HA 32/L100 AB VS</b>	backside light shielding for 52 L100
90113 0020	<b>HA 48/L150 AB VS</b>	backside light shielding for 52 L150
90113 0021	<b>HA 64/L210 AB VS</b>	backside light shielding for 52 L210
90545 0029	<b>NFC-Scanner Bluetooth/NFC</b>	for interference-free communication and for iOS operating system

NEW

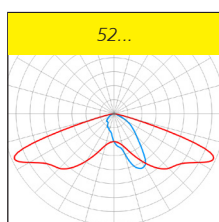
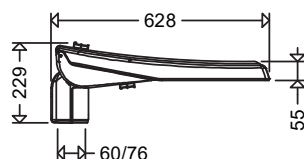
# VIA LED Outdoor Light Fitting Ready for Light Management System Series 52... RFL



## Pole-top installation



## Pole-mounted installation



## Applications:

Side and main streets, roundabouts, factory streets in industrial plants, car parks, gateways etc.

## Design:

The luminaires are prepared for the subsequent use of a light management system. An integrated socket allows retrofitting of light management components without tools.

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable plug connection. Cable entry with screw connection, strain relief and pressure compensation system in lower part of housing, silicone seal.

**Glass cover:** Flat safety glass, impact resistance IK09.

**Light distribution:** Lens optics, asymmetrical wide beam

**Central locking:** Aluminium

**Connection terminal:** With disconnect plug connection and strain relief.

**Universal-Pole mounting device:** Die-cast aluminium, for mast top Ø 60/76mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top Ø 42mm.

**Inclination setting:** For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.



Exclusively D4i control gear is being used in RFL luminaires from SCHUCH.

All D4i Zhaga Book 18 certified controllers and D4i Zhaga Book 18 certified sensors available on the market can be used in combination with RFL luminaires from SCHUCH. Controllers and sensors which do not comply with the D4i standard can limit the functionality of the luminaires and components. Moreover, in individual cases, such non-certified components may cause damage to both the luminaires and the components.

## Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

## Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

## Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class I (SKI)
- optics asymmetrical extremely wide beam (ABX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 25,000lm
- special painting in RAL colours (SL)
- assembled with attached cable to desired length

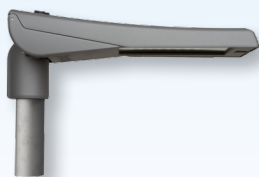
## Product highlights:

- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the light management system components
- standardized Zhaga compliant sockets allow free choice of light management system
- durable, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins, no dirt build-up.
- universal mast mounting for mast top Ø 60/76mm for post mounting or post-top mounting, pre-mounted on luminaire
- tool-free replacement of ECG and LED module (support plate, disconnecting plug, clamping spring) time- and cost-saving component replacement at the end of service life, in case of retrofitting due to technical advancement, use of other/ warmer light colours, etc.
- integrated pressure equalisation system prevents condensation in the interior
- eco-friendly, no light emission into the upper half-space,  $ULOR=0$
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)
- GreenLine luminaire, outstanding sustainable design

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 52... RFLO



with a socket on the top side of the luminaire  
colour temperature 4.000K (light colour 740)

52003 0001	52 3203 RFLO	70	10.300	147	10,7
52003 0002	52 4803 RFLO	106	15.300	144	10,7
52003 0003	52 6403 RFLO	140	20.200	144	10,8

colour temperature 3.000K (light colour 730)

52003 0010	52 3203 730 RFLO	70	9.680	138	10,7
52003 0011	52 4803 730 RFLO	106	14.380	136	10,7
52003 0012	52 6403 730 RFLO	140	18.990	136	10,8



**Stand-alone solution**  
Can also be used as a stand-alone solution with motion detector.

## 52... RFLU



with a socket on the bottom side of the luminaire  
colour temperature 4.000K (light colour 740)

52003 0004	52 3203 RFLU	70	10.300	147	10,7
52003 0005	52 4803 RFLU	106	15.300	144	10,7
52003 0006	52 6403 RFLU	140	20.200	144	10,8

colour temperature 3.000K (light colour 730)

52003 0013	52 3203 730 RFLU	70	9.680	138	10,7
52003 0014	52 4803 730 RFLU	106	14.380	136	10,7
52003 0015	52 6403 730 RFLU	140	18.990	136	10,8



## 52... RFLOU



with a socket on the top and bottom side of the luminaire  
colour temperature 4.000K (light colour 740)

52003 0007	52 3203 RFLOU	70	10.300	147	10,7
52003 0008	52 4803 RFLOU	106	15.300	144	10,7
52003 0009	52 6403 RFLOU	140	20.200	144	10,8

colour temperature 3.000K (light colour 730)

52003 0016	52 3203 730 RFLOU	70	9.680	138	10,7
52003 0017	52 4803 730 RFLOU	106	14.380	136	10,7
52003 0018	52 6403 730 RFLOU	140	18.990	136	10,8

! Also available with output reduction LA or constant luminous flux function CL as well as combinations of these functions CL LA.



RFL LIMAS HUB3 G2 / RFL LIMAS HUB3 G2 GPS SIM



RFL LIMAS BM RAD HUB LPH max. 8m



RFL LIMAS BM RAD MA LPH max. 10m



RFL DS20 HUB 20lux ON/OFF



RFL BM/DS IR HUB LPH max. 8m



RFL BM/DS IR HUB LPH max. 12m



LIMAS USB-Dongle



~~LIMAS Gateway 3 EU~~



## System components

Article No.	Type	
90546 9014	RFL LIMAS HUB3 G2	control element with photocell/ twilight switch
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	control element with photocell/ twilight switch, GPS antenna and SIM card
90546 9011	RFL LIMAS BM RAD HUB LPH max. 8m	control element / radar motion detector
90546 9012	RFL LIMAS BM RAD MA LPH max. 10m	control element / radar motion detector
90546 9000	RFL DS20 HUB 20lux ON/OFF	twilight switch
90546 9004	RFL BM/DS IR HUB LPH max. 8m	infrared motion detector can only be used in conjunction with Controller HUB3 (90546 9009) or Controller HUB3 G2 GPS SIM (90546 9010)
90546 9006	RFL BM/DS IR HUB LPH max. 12m	infrared motion detector / twilight switch standalone capability

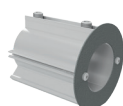
Other sensors, e.g. environmental sensors (fine dust, CO<sub>2</sub>, weather station etc.) on request.

## Control components

Article No.	Type	
90545 0001	LIMAS USB-Dongle	Enables wireless connection from tablet (or other mobile device with USB interface and Windows® operating system) to luminaire. For setting up and diagnosing the lighting system.
90545 0004	<del>LIMAS Gateway 3 EU</del> no longer available	<del>Enables remote access to control and monitor the lighting system: Access via mobile network or Ethernet (LAN / WLAN).</del>



RZ 76/42 VIA - Adapter for mast top ø of 42mm, black



Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

## Accessories / Spare Parts

Article No.	Type	
52010 9000	ABD 52	cover, pane safety glas clear, for 52...
90309 0001	RZ 76/42 VIA	adapter for mast top ø of 42mm, black
90113 0019	HA 32/L100 AB VS	backside light shielding for 52 32..
90113 0020	HA 48/L150 AB VS	backside light shielding for 52 48..
90113 0021	HA 64/L210 AB VS	backside light shielding for 52 64..

Subject to technical changes, misprints and errors.

NEW

## LUCA

### Modern LED Outdoor Light Fitting with variable setting of the luminous flux and Multi-Purpose Mounting System

#### Series 46... G2 VARIO

##### Applications:

Residential streets, by-roads and thoroughfares, walkways and bicycle lanes, traffic-calmed zones, factory streets in industrial plants, car parks, entrances and exits etc.

##### Design:

**Housing:** Glass fibre reinforced polyester resin with UV resistant coating, integrated pressure compensation system.

**Diffuser:** UV stabilized PC, clear, hinged and detachable.

**Gear tray:** Aluminium, with LED module, optics and all electrical components as a compact unit. Unit connected to the

clear cover in a (sandwich construction), disconnectable plug-in connection and strain relief.

**Switch** for setting the luminous flux of the luminaire.

**Fasteners:** Stainless steel.

**Light distribution:** Asymmetrical wide beam

**Mounting system:** Universal pole mounting system made from die-cast aluminium for pole top and side entry mounting. Pole end Ø of 60mm and 76mm (inclination: 10°).

**Supporting section:** Ø42 x 100mm or 60 x 100mm.

##### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90}$  100,000h, Zhaga compliant  
**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

##### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

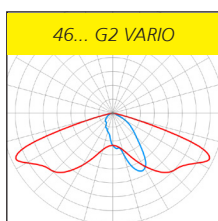
**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

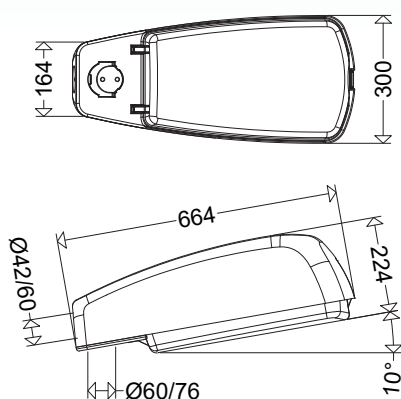
##### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics asymmetrical extremely wide beam (ABX)
- optics for M-classes (AB3)
- low glare optics (ABL)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- Ready for Light Management Systems (RFL)
- with increased luminous flux up to 15,000lm
- seawater-resistant version (SWP)
- special painting in RAL colours (SL)
- special painting in RAL colours
- aluminium housing (AL)



##### Product highlights:

- one type replace several conventional lights and thus reduce the variety of types
- simple, fast, tool-free setting of the luminous flux on site, by means of integrated switch, can be changed at any time
- ECG with surge voltage resistance, reliable due to overload and short circuit protection
- protection of the LEDs against mechanical and electrostatic discharge due to sandwich-design of gear tray and cover
- high quality housing made glass fibre reinforced from polyester with UV-protected and weather-resistant coating
- integrated pressure compensation system prevents condensation in the interior
- removable multi-function cable entry enables pre-assembly of the connection cable outside the luminaire
- tool free turnable pole mounting system for quick post top or side entry mounting
- one hinged and detachable compact unit, consisting of glass, aluminum frame, gear tray and LED, to be opened without tool, thus allowing a comfortable maintenance and a quick change of components or upgrade in case of technical development of LED
- optimal light distribution due to highly efficient lens optics
- homogeneous illumination due to the Multi-Layer-Technology i.e. every individual LED illuminates the whole surface, the light curves of the individual LEDs are overlapping.
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)



Compact unit with all electrical components,  
detachable without tools.

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

See "Technical Supplement"

All data are correct at the time of printing. Actual  
technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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## 46... G2 VARIO

IP65



Wind load area A = 0,11

### colour temperature 4.000K (light colour 740)

46007 0001	<b>46 L50 G2 VARIO</b>	9 - 35	1.200 - 5.150	147	HST 35 - 2 x HST 70	5,9
46007 0002	<b>46 L100 G2 VARIO</b>	16 - 70	2.360 - 10.000	148	HST 50 - HME 250	6,0

### colour temperature 3.000K (light colour 730)

46007 0003	<b>46 L50 G2 VARIO 730</b>	9 - 35	1.130 - 4.840	138	HST 35 - 2 x HST 70	5,9
46007 0004	<b>46 L100 G2 VARIO 730</b>	16 - 70	2.200 - 9.400	138	HST 50 - HME 250	6,0

Factory setting L50: 18 W; replaces approx. HME 125, HST 70

Factory setting L100: 54 W; replaces approx. HME 250

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

1) possible setting range

Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



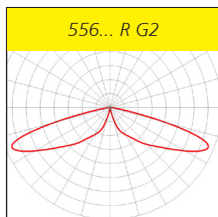
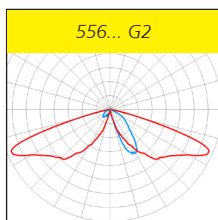
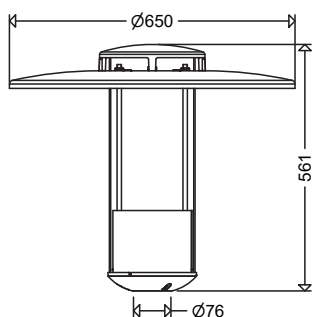
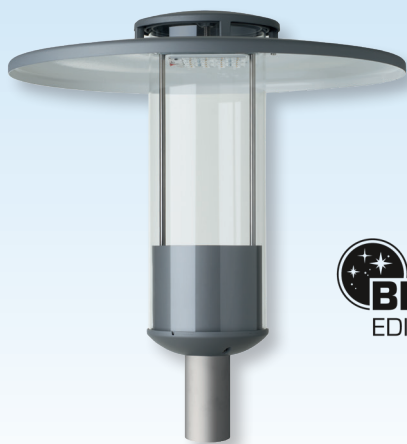
## Accessories / Spare Parts

Article no.	Type	
46001 9003	<b>ABD 46 G2 PC K</b>	cover, diffuser PC clear, UV stabilized, for 46...
90113 0017	<b>HA 16/L50 AB VS</b>	backside light shielding for 46 L50
90113 0019	<b>HA 32/L100 AB VS</b>	visor to avoid backwards radiation flux for 46 L100

Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

NEW

## CUPINA LED Pole-Top Light Fitting Series 556... G2



### Applications:

#### 556... G2:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

#### 556... R G2:

Promenades, public parks, pedestrian areas etc.

### Design :

**Roof and supporting section:** Aluminium, powder-coated DB 702 (mica-iron paint, grey).

**Cover:** PMMA, clear, cylindrical.

**Electrical components:** Wired ready for installation, disconnect plug-in connector to the mains connection terminal, cable retainer for connection cable, with LED module and ECG unit.

**Light distribution:** Asymmetrical wide beam or symmetrical circular beam (R).

**Mounting system:** 3 non-corrosive steel locking screws serve for fixation on straight poles Ø 76 mm. Adapter (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- seawater-resistant version (SWP)
- Ready for Light Management Systems (RFL), only possible without accessory ring mirror
- special painting in RAL colours (SL)

### Product highlights:

- optimal light distribution due to direct beam LED with highly efficient optics
- homogeneous illumination due to Multi-Layer technology i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping
- quick installation, maintenance and conversion thanks to tool-free opening of the light fitting and tool-free replacement of the electrical components (LED module and ECG unit)
- BlackEdition, ULOR=0% (Modifications with accessories influence the light distribution)
- eco-friendly, all versions dimmable to 10% with luminous fluxes up to 2000lm and color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts

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

■ See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 556... G2

IP54



Wind load  
area  
A = 0,13m<sup>2</sup>

### asymmetrical wide beam

#### colour temperature 4.000K (light colour 740)

55600 0001	556 0801 G2	9	1.300	144	6,7
55600 0002	556 0802 G2	13	1.760	135	6,7
55600 0003	556 0803 G2	18	2.370	132	6,7
55600 0004	556 1601 G2	17	2.660	156	6,8
55600 0005	556 1602 G2	25	3.550	142	6,8
55600 0006	556 1603 G2	35	4.740	135	6,8

#### colour temperature 3.000K (light colour 730)

55600 0013	556 0801 G2 730	9	1.220	136	6,7
55600 0014	556 0802 G2 730	13	1.650	127	6,7
55600 0015	556 0803 G2 730	18	2.230	124	6,7
55600 0016	556 1601 G2 730	17	2.510	148	6,8
55600 0017	556 1602 G2 730	25	3.340	134	6,8
55600 0018	556 1603 G2 730	35	4.460	127	6,8

### symmetrical circular beam

#### colour temperature 4.000K (light colour 740)

55600 0007	556 0801R G2	9	1.300	144	6,7
55600 0008	556 0802R G2	13	1.760	135	6,7
55600 0009	556 0803R G2	18	2.370	132	6,7
55600 0010	556 1601R G2	17	2.660	156	6,8
55600 0011	556 1602R G2	25	3.550	142	6,8
55600 0012	556 1603R G2	35	4.740	135	6,8

#### colour temperature 3.000K (light colour 730)

55600 0019	556 0801R G2 730	9	1.220	136	6,7
55600 0020	556 0802R G2 730	13	1.650	127	6,7
55600 0021	556 0803R G2 730	18	2.230	124	6,7
55600 0022	556 1601R G2 730	17	2.510	148	6,8
55600 0023	556 1602R G2 730	25	3.340	134	6,8
55600 0024	556 1603R G2 730	35	4.460	127	6,8

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



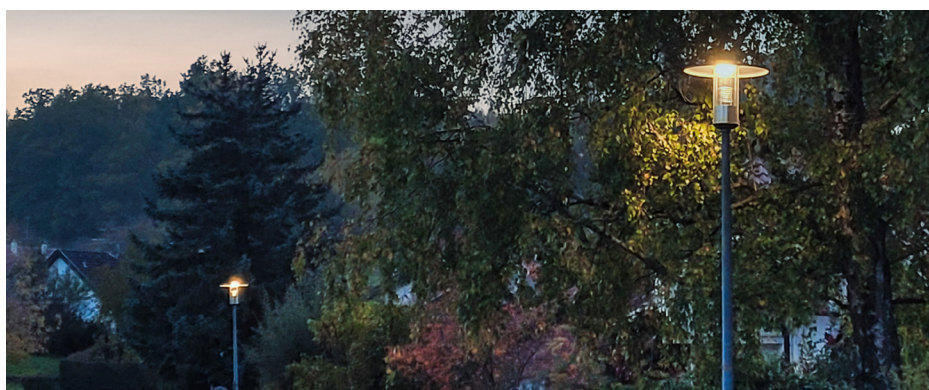
with ring mirror



with frosted board cover



with frosted board cover  
and ring mirror

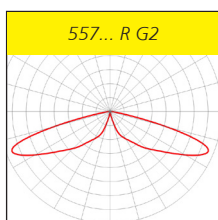
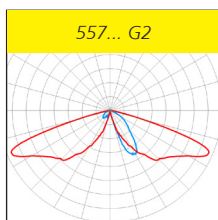
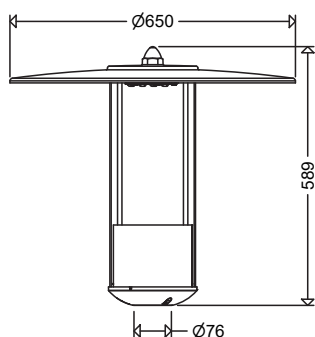
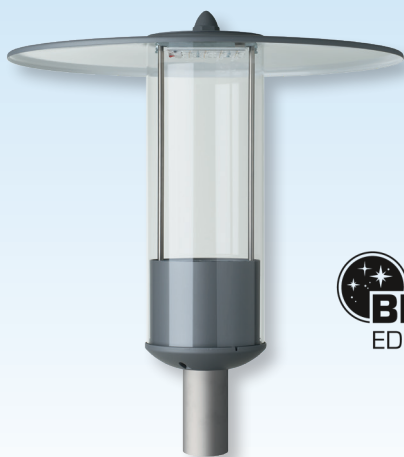


## Accessories / Spare Parts

Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90113 0016	HA 08/L25 AB VS	backside light shielding for 556 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 556 16..
90113 0008	HA 08/L25 LE	backside light shielding for 556 08.. R
90113 0009	HA 16/L50 LE	backside light shielding for 556 16.. R
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm

NEW

## PLANE0 LED Pole-Top Light Fitting Series 557... G2



### Applications:

#### 557... G2:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

#### 557... R G2:

Promenades, public parks, pedestrian areas etc.

### Design :

Roof and supporting section: Aluminium, powder-coated DB 702 (mica-iron paint, grey)

Cover: PMMA, clear, cylindrical

Electrical components: Wired ready for installation, disconnect plug-in connector to the mains connection terminal, cable retainer for connection cable, with LED module and ECG unit

Light distribution: Asymmetrical wide beam or symmetrical circular beam (R).

Mounting system: 3 non-corrosive steel locking screws serve for fixation on straight poles Ø 76 mm. Adapter (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).

### Electrical design:

LED module: 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

ECG: 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting
- networks respectively
- seawater-resistant version (SWP)
- Ready for Light Management Systems (RFL), only possible without accessory ring mirror
- special painting in RAL colours (SL)

### Product highlights:

- optimal light distribution due to direct beam LED with highly efficient optics
- homogeneous illumination due to **Multi-Layer technology** i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping
- quick maintenance and conversion thanks to **tool-free replacement of the electrical components** (LED module and ECG unit)
- **BlackEdition, ULOR=0%** (Modifications with accessories influence the light distribution)
- **eco-friendly**, all versions dimmable to 10% with luminous fluxes up to 2000lm and color temperature up to max. 3,000K fulfill the **Dark Sky requirements**
- **sustainable**, control gear and LED-module replaceable by qualified personnel on-site
- **future proof** by using standardized LED-modules (Zhaga) and long-term availability of spare parts

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

■ See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 557... G2

IP54



Wind load  
area  
A = 0,13m<sup>2</sup>

### asymmetrical wide beam

#### colour temperature 4.000K (light colour 740)

55701 0001	557 0801 G2	9	1.300	144	5,9
55701 0002	557 0802 G2	13	1.760	135	5,9
55701 0003	557 0803 G2	18	2.370	132	5,9
55701 0004	557 1601 G2	17	2.660	156	6,0
55701 0005	557 1602 G2	25	3.550	142	6,0
55701 0006	557 1603 G2	35	4.740	135	6,0

#### colour temperature 3.000K (light colour 730)

55701 0013	557 0801 G2 730	9	1.220	136	5,9
55701 0014	557 0802 G2 730	13	1.650	127	5,9
55701 0015	557 0803 G2 730	18	2.230	124	5,9
55701 0016	557 1601 G2 730	17	2.510	148	6,0
55701 0017	557 1602 G2 730	25	3.340	134	6,0
55701 0018	557 1603 G2 730	35	4.460	127	6,0

### symmetrical circular beam

#### colour temperature 4.000K (light colour 740)

55701 0007	557 0801R G2	9	1.300	144	5,9
55701 0008	557 0802R G2	13	1.760	135	5,9
55701 0009	557 0803R G2	18	2.370	132	5,9
55701 0010	557 1601R G2	17	2.660	156	6,0
55701 0011	557 1602R G2	25	3.550	142	6,0
55701 0012	557 1603R G2	35	4.740	135	6,0

#### colour temperature 3.000K (light colour 730)

55701 0019	557 0801R G2 730	9	1.220	136	5,9
55701 0020	557 0802R G2 730	13	1.650	127	5,9
55701 0021	557 0803R G2 730	18	2.230	124	5,9
55701 0022	557 1601R G2 730	17	2.510	148	6,0
55701 0023	557 1602R G2 730	25	3.340	134	6,0
55701 0024	557 1603R G2 730	35	4.460	127	6,0

Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



with ring mirror



with frosted board cover



with frosted board cover  
and ring mirror



## Accessories / Spare Parts

Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90113 0016	HA 08/L25 AB VS	backside light shielding for 557 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 557 16..
90113 0008	HA 08/L25 LE	backside light shielding for 557 08.. R
90113 0009	HA 16/L50 LE	backside light shielding for 557 16.. R
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm

NEW

## CILA LED Pole-Top Light Fitting Series 558... G2

### Applications:

#### 558... G2:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

#### 558... R G2:

Promenades, public parks, pedestrian areas etc.

### Design :

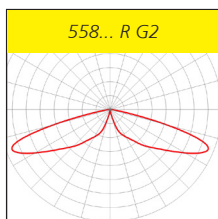
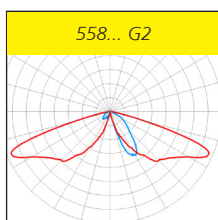
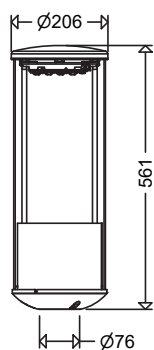
Roof and supporting section: Aluminium, powder-coated DB 702 (mica-iron paint, grey)

Cover: PMMA, clear, cylindrical

Electrical components: Wired ready for installation, disconnect plug-in connector to the mains connection terminal, cable retainer for connection cable, with LED module and ECG unit.

Light distribution: Asymmetrical wide beam or symmetrical circular beam (R).

Mounting system: 3 non-corrosive steel locking screws serve for fixation on straight poles Ø 76 mm. Adapter (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).



### Electrical design:

LED module: 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

ECG: 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

### Digital dimming with DALI interface (DIMD)

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- seawater-resistant version (SWP)
- Ready for Light Management Systems (RFL), only possible without accessory ring mirror
- special painting in RAL colours (SL)

### Product highlights:

- optimal light distribution due to direct beam LED with highly efficient optics
- homogeneous illumination due to Multi-Layer technology i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping
- quick installation, maintenance and conversion thanks to tool-free opening of the light fitting and tool-free replacement of the electrical components (LED module and ECG unit)
- BlackEdition, ULOR=0% (Modifications with accessories influence the light distribution)
- eco-friendly, all versions dimmable to 10% with luminous fluxes up to 2000lm and color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts

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

■ See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 558... G2



Wind load  
area  
A = 0,11m<sup>2</sup>

### asymmetrical wide beam

#### colour temperature 4.000K (light colour 740)

55801 0001	558 0801 G2	9	1.300	144	4,7
55801 0002	558 0802 G2	13	1.760	135	4,7
55801 0003	558 0803 G2	18	2.370	132	4,7
55801 0004	558 1601 G2	17	2.660	156	4,8
55801 0005	558 1602 G2	25	3.550	142	4,8
55801 0006	558 1603 G2	35	4.740	135	4,8

#### colour temperature 3.000K (light colour 730)

55801 0013	558 0801 G2 730	9	1.220	136	4,7
55801 0014	558 0802 G2 730	13	1.650	127	4,7
55801 0015	558 0803 G2 730	18	2.230	124	4,7
55801 0016	558 1601 G2 730	17	2.510	148	4,8
55801 0017	558 1602 G2 730	25	3.340	134	4,8
55801 0018	558 1603 G2 730	35	4.460	127	4,8

### symmetrical circular beam

#### colour temperature 4.000K (light colour 740)

55801 0007	558 0801R G2	9	1.300	144	4,7
55801 0008	558 0802R G2	13	1.760	135	4,7
55801 0009	558 0803R G2	18	2.370	132	4,7
55801 0010	558 1601R G2	17	2.660	156	4,8
55801 0011	558 1602R G2	25	3.550	142	4,8
55801 0012	558 1603R G2	35	4.740	135	4,8

#### colour temperature 3.000K (light colour 730)

55801 0019	558 0801R G2 730	9	1.220	136	4,7
55801 0020	558 0802R G2 730	13	1.650	127	4,7
55801 0021	558 0803R G2 730	18	2.230	124	4,7
55801 0022	558 1601R G2 730	17	2.510	148	4,8
55801 0023	558 1602R G2 730	25	3.340	134	4,8
55801 0024	558 1603R G2 730	35	4.460	127	4,8

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



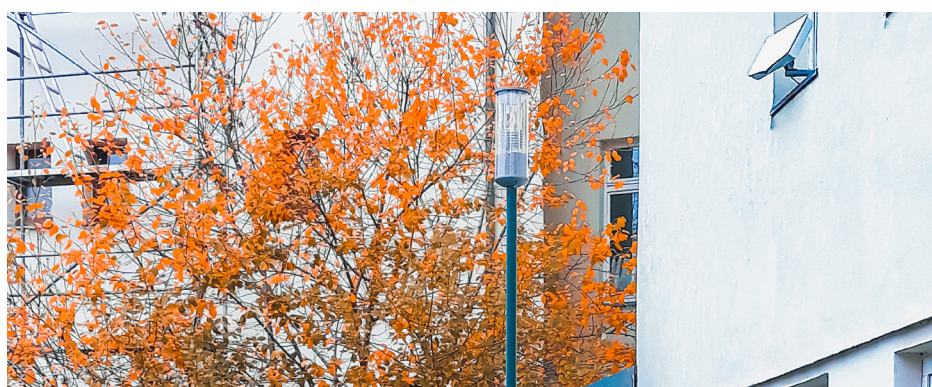
with ring mirror



with frosted board cover



with frosted board cover  
and ring mirror

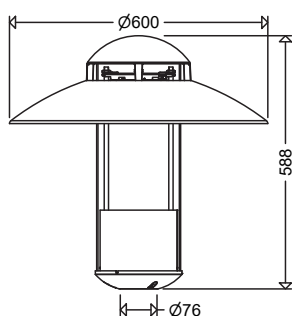


## Accessories / Spare Parts

Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90113 0016	HA 08/L25 AB VS	backside light shielding for 558 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 558 16..
90113 0008	HA 08/L25 LE	backside light shielding for 558 08.. R
90113 0009	HA 16/L50 LE	backside light shielding for 558 16.. R
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm

NEW

## CAPA LED Pole-Top Light Fitting Series 541... G2



### Applications:

#### 541... G2:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

#### 541... R G2:

Promenades, public parks, pedestrian areas etc.

### Design:

#### Supporting section, roof and top cover:

Aluminium, powder-coated DB 702

(mica-iron paint, grey).

**Cover:** PMMA, clear, cylindrical

**Electrical components:** Wired ready for installation, disconnect plug-in connector to the mains connection terminal, cable retainer for connection cable, with LED module and ECG unit.

**Light distribution:** Asymmetrical wide beam or symmetrical circular beam (R).

**Mounting system:** 3 non-corrosive steel locking screws serve for fixation on straight pole end Ø of 76mm. Adapter (RZ 1) for pole end Ø of 60mm (see accessories / spare parts).

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

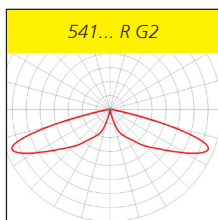
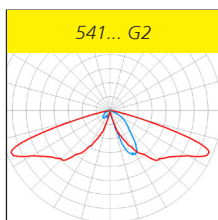
On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.



### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- seawater-resistant version (SWP)
- Ready for Light Management Systems (RFL), only possible without accessory ring mirror
- special painting in RAL colours (SL)

### Product highlights:

- optimal light distribution due to direct beam LED with highly efficient optics
- homogeneous illumination due to Multi-Layer technology i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping. Any failure of a particular single LED will not create any dark zones in the road. The uniformity of the illumination is kept
- quick installation, maintenance and conversion thanks to tool-free opening of the light fitting and tool-free replacement of the electrical components (LED module and ECG unit)
- BlackEdition, ULOR=0% (Modifications with accessories influence the light distribution)
- eco-friendly, all versions dimmable to 10% with luminous fluxes up to 2000lm and color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts



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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 541... G2

IP54



Wind  
load area  
A = 0,13m²

### asymmetrical wide beam

#### colour temperature 4.000K (light colour 740)

54100 0001	541 0801 G2	9	1.300	144	7,1
54100 0002	541 0802 G2	13	1.760	135	7,1
54100 0003	541 0803 G2	18	2.370	132	7,1
54100 0004	541 1601 G2	17	2.660	156	7,2
54100 0005	541 1602 G2	25	3.550	142	7,2
54100 0006	541 1603 G2	35	4.740	135	7,2

#### colour temperature 3.000K (light colour 730)

54100 0013	541 0801 G2 730	9	1.220	136	7,1
54100 0014	541 0802 G2 730	13	1.650	127	7,1
54100 0015	541 0803 G2 730	18	2.230	124	7,1
54100 0016	541 1601 G2 730	17	2.510	148	7,2
54100 0017	541 1602 G2 730	25	3.340	134	7,2
54100 0018	541 1603 G2 730	35	4.460	127	7,2

### symmetrical circular beam

#### colour temperature 4.000K (light colour 740)

54100 0007	541 0801R G2	9	1.300	144	7,1
54100 0008	541 0802R G2	13	1.760	135	7,1
54100 0009	541 0803R G2	18	2.370	132	7,1
54100 0010	541 1601R G2	17	2.660	156	7,2
54100 0011	541 1602R G2	25	3.550	142	7,2
54100 0012	541 1603R G2	35	4.740	135	7,2

#### colour temperature 3.000K (light colour 730)

54100 0019	541 0801R G2 730	9	1.220	136	7,1
54100 0020	541 0802R G2 730	13	1.650	127	7,1
54100 0021	541 0803R G2 730	18	2.230	124	7,1
54100 0022	541 1601R G2 730	17	2.510	148	7,2
54100 0023	541 1602R G2 730	25	3.340	134	7,2
54100 0024	541 1603R G2 730	35	4.460	127	7,2

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



with ring mirror



with frosted board cover



with frosted board cover  
and ring mirror



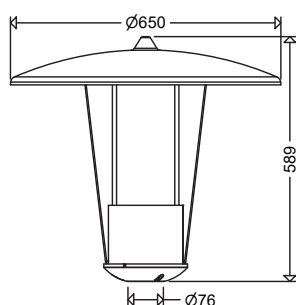
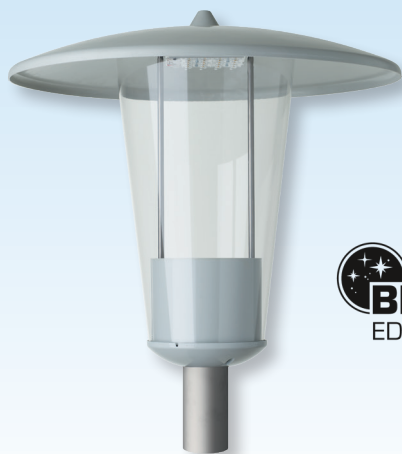
## Accessories / Spare Parts

Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90113 0016	HA 08/L25 AB VS	backside light shielding for 541 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 541 16..
90113 0008	HA 08/L25 LE	backside light shielding for 541 08.. R
90113 0009	HA 16/L50 LE	backside light shielding for 541 16.. R
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm



NEW

## RETRO LED Pole-Top Light Fitting Series 543... G2



### Applications:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

### Design :

**Roof:** Glass fibre reinforced polyester resin with integrated insert nut (colour: similar to RAL 7035).

**Supporting section:** Aluminium powder coated light grey (RAL 7035).

**Cover:** PMMA, clear, conical

**Electrical components:** Wired ready for

installation, disconnect plug-in connector to the mains connection terminal, cable retainer for connection cable, with LED module and ECG unit.

**Light distribution:** Asymmetrical wide beam or symmetrical circular beam (R).

**Mounting system:** 3 non-corrosive steel locking screws serve for fixation on straight poles Ø 76 mm. Adapter (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

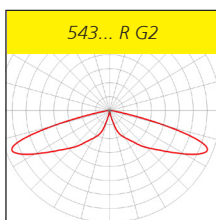
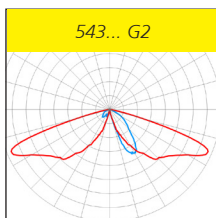
**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- seawater-resistant version (SWP)
- Ready for Light Management Systems (RFL), only possible without accessory ring mirror
- aluminium roof, standard colour RAL 7035 (series 543 AL...)
- special painting in RAL colours (SL)



### Product highlights:

- optimal light distribution due to direct beam LED with highly efficient optics
- homogeneous illumination due to Multi-Layer technology i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping
- quick installation, maintenance and conversion thanks to tool-free opening of the light fitting and tool-free replacement of the electrical components (LED module and ECG unit)
- BlackEdition, ULOR=0% (Modifications with accessories influence the light distribution)
- eco-friendly, all versions dimmable to 10% with luminous fluxes up to 2000lm and color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 543... G2

IP54



Wind load  
area  
A = 0,15m²

### asymmetrical wide beam

#### colour temperature 4.000K (light colour 740)

54300 0001	543 0801 G2	9	1.300	144	7,0
54300 0002	543 0802 G2	13	1.760	135	7,0
54300 0003	543 0803 G2	18	2.370	132	7,0
54300 0004	543 1601 G2	17	2.660	156	7,1
54300 0005	543 1602 G2	25	3.550	142	7,1
54300 0006	543 1603 G2	35	4.740	135	7,1

#### colour temperature 3.000K (light colour 730)

54300 0013	543 0801 G2 730	9	1.220	136	7,0
54300 0014	543 0802 G2 730	13	1.650	127	7,0
54300 0015	543 0803 G2 730	18	2.230	124	7,0
54300 0016	543 1601 G2 730	17	2.510	148	7,1
54300 0017	543 1602 G2 730	25	3.340	134	7,1
54300 0018	543 1603 G2 730	35	4.460	127	7,1

### symmetrical circular beam

#### colour temperature 4.000K (light colour 740)

54300 0007	543 0801R G2	9	1.300	144	7,0
54300 0008	543 0802R G2	13	1.760	135	7,0
54300 0009	543 0803R G2	18	2.370	132	7,0
54300 0010	543 1601R G2	17	2.660	156	7,1
54300 0011	543 1602R G2	25	3.550	142	7,1
54300 0012	543 1603R G2	35	4.740	135	7,1

#### colour temperature 3.000K (light colour 730)

54300 0019	543 0801R G2 730	9	1.220	136	7,0
54300 0020	543 0802R G2 730	13	1.650	127	7,0
54300 0021	543 0803R G2 730	18	2.230	124	7,0
54300 0022	543 1601R G2 730	17	2.510	148	7,1
54300 0023	543 1602R G2 730	25	3.340	134	7,1
54300 0024	543 1603R G2 730	35	4.460	127	7,1

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



with ring mirror



with frosted board cover



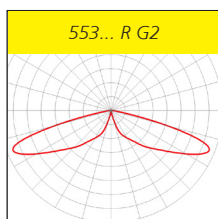
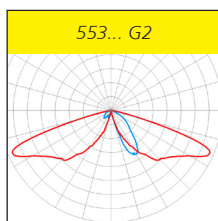
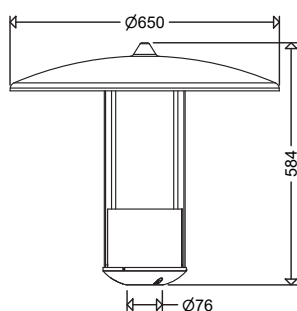
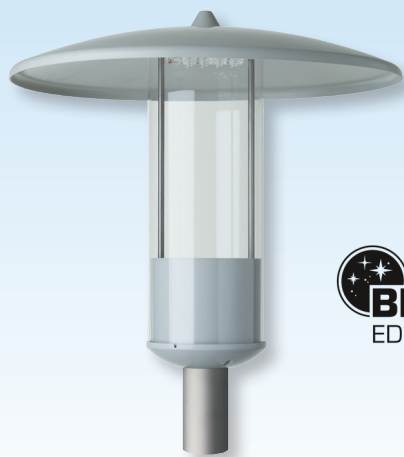
with frosted board cover  
and ring mirror

## Accessories / Spare Parts

Article no.	Type	
10043 9000	ABD 543	cover, conus PMMA clear, for 543...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90113 0016	HA 08/L25 AB VS	backside light shielding for 543 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 543 16..
90113 0008	HA 08/L25 LE	backside light shielding for 543 08.. R
90113 0009	HA 16/L50 LE	backside light shielding for 543 16.. R
90128 9001	DACH 542/43 POL M10	spare roof, polyester, for light fittings with integrated cover nut
90127 9000	DACH 542/43 AL	spare roof, aluminium, for light fittings with separate cover nut
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90044 0001	RZ 1 RAL7035	adapter for mast top Ø 60mm

NEW

## RETRO Z LED Pole-Top Light Fitting Series 553... G2



### Applications:

553...:

Residential areas, residential and side streets, low traffic areas, footpaths and cycle tracks etc.

553... R:

Promenades, public parks, pedestrian areas etc.

### Design :

**Roof:** Glass fibre reinforced polyester resin with integrated insert nut (colour: similar to RAL 7035).

**Supporting section:** Aluminium powder coated light grey (RAL 7035).

**Cover:** PMMA, clear, cylindrical.

**Electrical components:** Wired ready for installation, disconnect plug-in connector to the mains connection terminal, cable retainer for connection cable, with LED module and ECG unit.

**Light distribution:** Asymmetrical wide beam or symmetrical circular beam (R).

**Mounting system:** 3 non-corrosive steel locking screws serve for fixation on straight poles Ø 76 mm. Adapter (RZ 1) for pole end Ø of 60 mm (see accessories / spare parts).

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

**Digital dimming with DALI interface (DIMD)**

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- seawater-resistant version (SWP)
- Ready for Light Management Systems (RFL), only possible without accessory ring mirror
- aluminium roof, standard colour RAL 7035 (series 553 AL...) colours (SL)

### Product highlights:

- optimal light distribution due to direct beam LED with highly efficient optics
- homogeneous illumination due to Multi-Layer technology i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping. Any failure of a particular single LED will not create any dark zones in the road. The uniformity of the illumination is kept
- quick installation, maintenance and conversion thanks to tool-free opening of the light fitting and tool-free replacement of the electrical components (LED module and ECG unit)
- BlackEdition,  $ULOR=0\%$  (Modifications with accessories influence the light distribution)
- eco-friendly, all versions dimmable to 10% with luminous fluxes up to 2000lm and color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 553... G2

IP54



Wind load  
area  
A = 0,13m<sup>2</sup>

### asymmetrical wide beam

#### colour temperature 4.000K (light colour 740)

55300 0001	553 0801 G2	9	1.300	144	7,0
55300 0002	553 0802 G2	13	1.760	135	7,0
55300 0003	553 0803 G2	18	2.370	132	7,0
55300 0004	553 1601 G2	17	2.660	156	7,1
55300 0005	553 1602 G2	25	3.550	142	7,1
55300 0006	553 1603 G2	35	4.740	135	7,1

#### colour temperature 3.000K (light colour 730)

55300 0013	553 0801 G2 730	9	1.220	136	7,0
55300 0014	553 0802 G2 730	13	1.650	127	7,0
55300 0015	553 0803 G2 730	18	2.230	124	7,0
55300 0016	553 1601 G2 730	17	2.510	148	7,1
55300 0017	553 1602 G2 730	25	3.340	134	7,1
55300 0018	553 1603 G2 730	35	4.460	127	7,1

### symmetrical circular beam

#### colour temperature 4.000K (light colour 740)

55300 0007	553 0801R G2	9	1.300	144	7,0
55300 0008	553 0802R G2	13	1.760	135	7,0
55300 0009	553 0803R G2	18	2.370	132	7,0
55300 0010	553 1601R G2	17	2.660	156	7,1
55300 0011	553 1602R G2	25	3.550	142	7,1
55300 0012	553 1603R G2	35	4.740	135	7,1

#### colour temperature 3.000K (light colour 730)

55300 0019	553 0801R G2 730	9	1.220	136	7,0
55300 0020	553 0802R G2 730	13	1.650	127	7,0
55300 0021	553 0803R G2 730	18	2.230	124	7,0
55300 0022	553 1601R G2 730	17	2.510	148	7,1
55300 0023	553 1602R G2 730	25	3.340	134	7,1
55300 0024	553 1603R G2 730	35	4.460	127	7,1

! Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).



with ring mirror



with frosted board cover



with frosted board cover  
and ring mirror

## Accessories / Spare Parts

Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90113 0016	HA 08/L25 AB VS	backside light shielding for 553 08..
90113 0017	HA 16/L50 AB VS	backside light shielding for 553 16..
90113 0008	HA 08/L25 LE	backside light shielding for 553 08.. R
90113 0009	HA 16/L50 LE	backside light shielding for 553 16.. R
90128 9001	DACH 542/43 POL M10	spare roof, polyester, for light fittings with integrated cover nut
90127 9000	DACH 542/43 AL	spare roof, aluminium, with separate cover nut
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90044 0001	RZ 1 RAL7035	adapter for mast top Ø 60mm

NEW

## BELLA Pendant LED Light Fittings Series 564/565... G2

### Applications:

Renewal of villages and historic city centres, low traffic areas, pedestrian areas, promenades, public parks.

### Design:

**Housing:** Aluminium sheet, powder coated in DB 702 (mica-iron paint, grey).  
**Cover:** Diffuser PMMA pearled

**Electro kit:** ECG and LED wired ready for connection, cable retainer for connection cable in housing.

**Light distribution:** Asymmetrical wide beam (for further versions see options)

**Mounting:** To pole top sections with internal thread 3/4" (see accessories / spare parts).

### Electrical design:

**LED module:** 4,000K or 3,000K,  $R_a > 70$ , service life  $L_{90} > 100,000h$ , Zhaga compliant

**ECG:** 220-240V, 50-60Hz, Surge voltage resistance 10kV, overload and short circuit protection.

### Light control:

On request, the luminaires are also available with the following configurations:

**Output reduction with control phase (LR):** For reducing the luminous flux to 50% at times of low traffic density. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Alternative dimming levels possible.

**Output reduction without control phase (LA):** Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

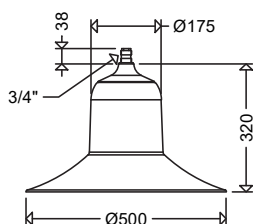
### Digital dimming with DALI interface (DIMD)

**Constant luminous flux function (CL):** Luminous flux is kept on a constant level over the entire service life of the LED-modules.

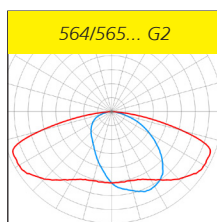
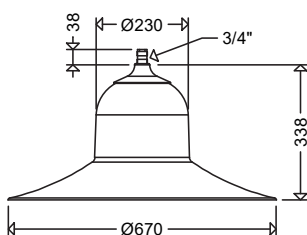
### Options:

- 2,200K, light colour 722 (approx. 23% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 38% lower luminous flux)
- protection class I (SKI)
- optics symmetrical circular beam (R)
- optics asymmetrical extremely wide beam (ABX)
- optics for cycle track (RWX)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP)
- inrush current limiter (ESSB)
- seawater-resistant version (SWP)
- with variable setting of the luminous flux (VARIO)
- assembled with attached cable to desired length)
- special painting in RAL colours (SL)

### Series 564... G2



### Series 565... G2



### Product highlights:

- optimal light distribution due to highly efficient lens optics with direct beam
- good glare limitation due to low-lying pearled cover
- homogeneous illumination due to Multi-Layer technology, i.e. every individual LED illuminates the total area, the light curves of the individual LEDs are overlapping.
- quick maintenance and change of components due to tool-free exchangeable gear-tray system (electrical block)
- eco-friendly, no light emission into the upper half space, ULOR=0
- all versions dimmable to 10% with color temperature up to max. 3,000K fulfill the Dark Sky requirements
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga)

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).





Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 564... G2

IP54



Wind  
load area  
A = 0,09m<sup>2</sup>

### colour temperature 4.000K (light colour 740)

56400 0001	564 0801 G2	9	1.410	157	2,8
56400 0002	564 0802 G2	13	1.910	147	2,8
56400 0003	564 0803 G2	18	2.580	143	2,8
56400 0004	564 1601 G2	17	2.860	168	2,8
56400 0005	564 1602 G2	25	3.840	154	2,8
56400 0006	564 1603 G2	35	5.150	147	2,8

### colour temperature 3.000K (light colour 730)

56400 0013	564 0801 G2 730	9	1.330	148	2,8
56400 0014	564 0802 G2 730	13	1.800	138	2,8
56400 0015	564 0803 G2 730	18	2.430	135	2,8
56400 0016	564 1601 G2 730	17	2.690	158	2,8
56400 0017	564 1602 G2 730	25	3.610	144	2,8
56400 0018	564 1603 G2 730	35	4.840	138	2,8

## 565... G2

IP54



Wind  
load area  
A = 0,12m<sup>2</sup>

### colour temperature 4.000K (light colour 740)

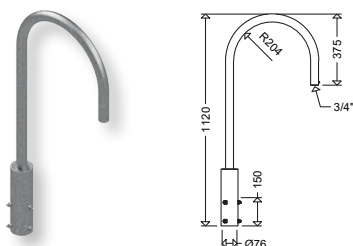
56500 0001	565 1601 G2	17	2.860	168	4,4
56500 0002	565 1602 G2	25	3.840	154	4,4
56500 0003	565 1603 G2	35	5.150	147	4,4
56500 0004	565 3201 G2	34	5.620	165	4,5
56500 0005	565 3202 G2	50	7.610	152	4,5
56500 0006	565 3203 G2	70	10.250	146	4,5

### colour temperature 3.000K (light colour 730)

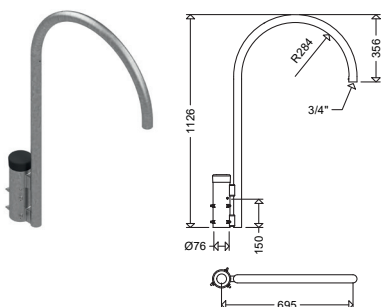
56500 0013	565 1601 G2 730	17	2.690	158	4,4
56500 0014	565 1602 G2 730	25	3.610	144	4,4
56500 0015	565 1603 G2 730	35	4.840	138	4,4
56500 0016	565 3201 G2 730	34	5.290	156	4,5
56500 0017	565 3202 G2 730	50	7.150	143	4,5
56500 0018	565 3203 G2 730	70	9.640	138	4,5

Also available with output reduction (LR / LA) or constant luminous flux function (CL) as well as combinations of these functions (CL LR / CL LA).

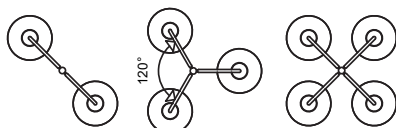
### Round arch pole-top adapter for pendant lights with upper thread 3/4"



Article no.	Type	Description	Weight
61999 0001	619/1	for 1 fitting	8,8 kg



72299 0001	722/1	for 1 fitting	8,2 kg
72299 0002	722/2	for 2 fitting	14,0 kg
72299 0003	722/3	for 3 fittings	19,9 kg
72299 0004	722/4	for 4 fittings	25,7 kg



Tops also available painted to match luminaire color (SL).

## Accessories / Spare Parts

Article no.	Type	
56410 0001	ABD 564 G2 P	cover, diffuser PMMA pearled, for 564... G2
56510 0001	ABD 565 G2 P	cover, diffuser PMMA pearled, for 565... G2
90113 0016	HA 08/L25 AB VS	backside light shielding for 564/565 08.. G2
90113 0017	HA 16/L50 AB VS	backside light shielding for 564/565 16.. G2
90113 0019	HA 32/L100 AB VS	backside light shielding for 564/565 32.. G2

NEW

# PROXIMA

## Dustproof/Waterproof LED Emergency Light Fitting with Diffuser Series 161PX ..

### Applications:

In humid, wet and dusty locations for illuminating escape routes etc.

### Mechanical Design:

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

**Diffuser:** Injected, acrylic glass, frosted, additional clear cover over the LED-modules to ensure protection against contact (Types ...MA).

**Closure:** Three-part plastic safety clips (KKS), unlooseable.

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

**Connection:** 3/4-pole terminal.

**Cable entries:** 3 plugs M20, loop in-out possible without further modification.

**Mounting:** 2 stainless steel retaining clips, 2 brackets for chain suspension, holes pre-pressed for direct fixing, sealing and pressure disks included in scope of deliver.

### Technical Data:

**LED:** Linear modules 4,000K, CRI > 80, service life L90 > 50.000h at 25°C ambient temperature, service life L80 > 70.000h and L70 > 100.000h at max. ambient temperature

**Incorporated NiCd battery,** electronic charger, short circuit protected battery and reverse battery protection

**Electronic deep discharge protection** acc. to EN 61347-2-7

**Re-charging time:** 24h, acc. to EN 60598-2-22

**Automatic monitoring:** of the emergency light fitting according to EN 62034, indication of the test results by 2-coloured LED (luminescence diode) at the luminaire

### Mode of operation:

**maintained operation** = switching over to battery operation in case of mains failure, line modules will be operated with reduced luminous flux as emergency lighting.

**Connection voltage:** 220-240V 50/60Hz

**Ambient temperature:** 0°C up to +40°C

### Options:

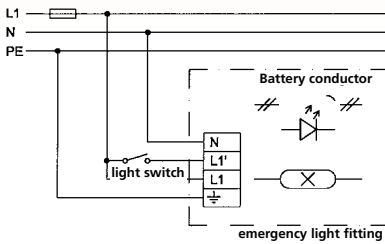
- 3.000K, 5.000K, 6.500K
- for higher ambient temperatures
- according to „International Featured Standard Food“ (IFS)
- for application in food industry (LM)
- PC-diffuser frosted (PC)
- stainless steel clips (KE)
- with dimming function via DALI2 interface, compatible with LIMAS Line (DIMD) Light Management System

### For versions with self-contained battery:

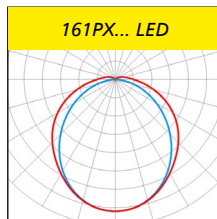
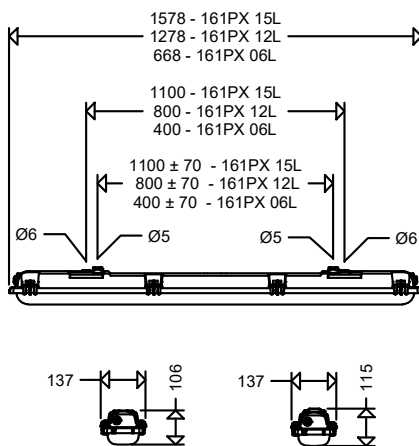
- Emergency lighting unit with DALI interface for central monitoring, compatible with LIMAS Line PRO (MA-Z) Light Management System
- Through-wiring (see note)
- 4-conductor: L1, L1', N, PE or
- 6-conductor: L1, L1', L2', L3', N, PE

### For versions with central battery system:

- with reduced luminous flux in DC-Mode (e. g.: 15%, 30%, 50%)
- with individual monitoring module light fittings
- with changeover switch (UW)



**Installation:** connect battery conductor  
**Decommission:** disconnect battery conductor



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

We deliver the light fittings 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. (Surcharge for 5-pole version).



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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).

### Advantages of the emergency light version:

- always ready for operation due to permanent trickle charging of the battery (MA-versions)
- safety in an emergency, immediate light with maximum luminous flux
- can be used up to +40°C ambient temperature
- with ZB version 100% luminous flux even in emergency operation

### General product highlights:

- high-impact resistant housing, wall thickness 1.8 mm throughout
- diffuser with very high mechanical stability, wall thickness 2.0 mm throughout
- one enclosure width for all versions
- safety clips to ensure protection against contact, for MA versions, additional clear cover for the LED modules
- FastFix quick mounting system with retaining clips made of stainless steel
- flexible mounting with movable retaining clips
- front-side in/out wiring (3/4-pole) possible as standard due to 2 entries on one side
- variable cable entry possible through additional entries on the top of the enclosure at the front or in the centre, centring holes available
- homogeneous illumination by using frosted diffusers
- highest efficiency due to use of top-quality components
- high colour rendering CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- sustainable, all components replaceable on site
- future proof by using standardized LED-modules (Zhaga)

Article no.	Type	Connected load [W] (incl. battery charge)	Luminous flux [lm]	Luminous flux [lm] (emergency operation)	Luminous efficacy [lm/W]	Operating time 1h	Operating time 3h	Substitute for *	Weight [kg] (without packing material)
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## 161PX ../. MA



with self-contained battery and automatic self-monitoring

16140 0001	161PX 06L12/1 MA	13	1.340	630	103	•		1 x 18W	2,6
16140 0002	161PX 12L22/1 MA	18	2.380	840	132	•		1 x 36W	3,8
16140 0003	161PX 15L34/1 MA	24	3.430	830	143	•		1 x 58W	4,5
16140 0004	161PX 06L20/1 MA	19	2.260	630	119	•		2 x 18W	2,6
16140 0005	161PX 12L42/1 MA	30	4.220	840	141	•		2 x 36W	3,8
16140 0006	161PX 15L60/1 MA	42	6.130	830	146	•		2 x 58W	4,5
16140 0011	161PX 06L12/3 MA	13	1.340	630	103		•	1 x 18W	2,6
16140 0012	161PX 12L22/3 MA	18	2.380	840	132		•	1 x 36W	3,8
16140 0013	161PX 15L34/3 MA	24	3.430	830	143		•	1 x 58W	4,5
16140 0014	161PX 06L20/3 MA	19	2.260	630	119		•	2 x 18W	2,6
16140 0015	161PX 12L42/3 MA	30	4.220	840	141		•	2 x 36W	3,8
16140 0016	161PX 15L60/3 MA	42	6.130	830	146		•	2 x 58W	4,5

## 161PX .. ZB



for central battery systems

Applications:

For connection to group or central battery systems or to an emergency mains for illuminating escape routes.

We recommend Central Battery Systems from INOTEC.

### Technical Data:

Light fitting with incorporated fuse for cut-off in case of failure according to DIN EN 60598-2-22, section 22.7.3.

Connection voltage: 220-240V, 50/60Hz and 220V DC

Ambient temperature: from -20°C up to +40°C

16140 0101	161PX 06L12 ZB	10	1.340	1.340	134			1 x 18W	1,7
16140 0102	161PX 12L22 ZB	15	2.380	2.380	159			1 x 36W	2,8
16140 0103	161PX 15L34 ZB	21	3.430	3.430	163			1 x 58W	3,4
16140 0104	161PX 06L20 ZB	16	2.260	2.260	141			2 x 18W	1,7
16140 0105	161PX 12L42 ZB	27	4.220	4.220	156			2 x 36W	2,8
16140 0106	161PX 15L60 ZB	39	6.130	6.130	157			2 x 58W	3,4
16140 0107	161PX 12L60 ZB	39	5.900	5.900	151			2 x 58W	2,8
16140 0108	161PX 15L75 ZB	49	7.410	7.410	151			> 2 x 58W	3,4

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

Accessories and spare parts please see section „Dustproof/Waterproof LED Light Fitting with Diffuser Series 161PX... “ in our catalogue. When ordering electronic parts or battery sets please always mention the article no. of the respective fitting.

NEW

# PROXIMA

**Dustproof/Waterproof LED Emergency Light  
for high ambient temperatures up to +50°C  
Fitting with Diffuser Series 161PX... H50**

## Applications:

In humid, wet and dusty locations for illuminating escape routes etc.

## Mechanical Design:

**Housing:** Glass fibre reinforced polyester resin, with separate battery box at one small side of the housing, foamed silicone gasket.

**Diffuser:** Injected, acrylic glass, frosted, additional clear cover over the LED-modules to ensure protection against contact.

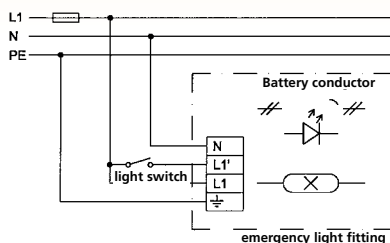
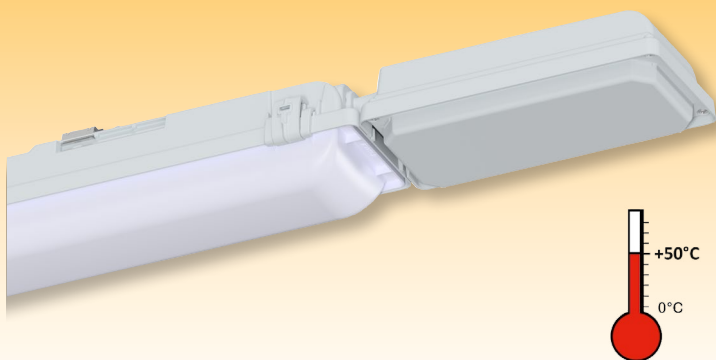
**Closure:** Three-part plastic safety clips (KKS), unloseable.

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

**Connection:** 4-pole terminal.

**Cable entries:** 2 plugs M20, loop in-out possible without further modification.

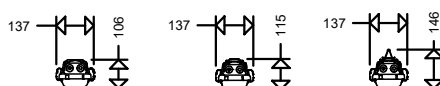
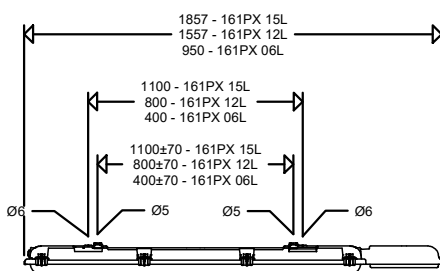
**Mounting:** 2 stainless steel retaining clips, 2 brackets for chain suspension, holes pre-pressed for direct fixing, sealing and pressure disks included in scope of deliver.



**Installation:** connect battery conductor

**Decommission:** disconnect battery conductor

## 161PX ... H (with battery box)



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

We deliver the light fittings 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. (Surcharge for 6-pole version).



## Technical Data:

**LED:** Linear modules 4,000K, CRI > 80, service life L90 > 50.000h at 25°C ambient temperature, service life L80 > 70.000h and L70 > 100.000h at max. ambient temperature

**Incorporated NiCd battery,** electronic charger, short circuit protected battery and reverse battery protection

**Electronic deep discharge protection** acc. to EN 61347-2-7

**Re-charging time:** 24h, acc. to EN 60598-2-22

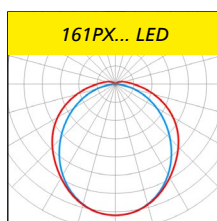
**Automatic monitoring:** of the emergency light fitting according to EN 62034, indication of the test results by 2-coloured LED (luminescence diode) at the luminaire

## Mode of operation:

**maintained operation** = switching over to battery operation in case of mains failure, line modules will be operated with reduced luminous flux as emergency lighting.

**Connection voltage:** 220-240V 50/60Hz

**Ambient temperature:** 0°C up to +50°C



## Options:

– 3.000K, 5.000K, 6.500K

– for higher ambient temperatures

– according to „International Featured

Standard Food“ (IFS)

– for application in food industry (LM)

– PC-diffuser frosted (PC)

– stainless steel clips (KE)

– with dimming function via DALI2

interface, compatible with LIMAS Line (DIMD) Light Management System

– with dimming function via DALI2

interface, compatible with LIMAS Line (DIMD) Light Management System

## Advantages of the emergency light version:

- always ready for operation due to permanent trickle charging of the battery
- safety in an emergency, immediate light with maximum luminous flux
- can be used up to +50°C ambient temperature

## General product highlights:

- high-impact resistant housing, wall thickness 1.8 mm throughout
- diffuser with very high mechanical stability, wall thickness 2.0 mm throughout
- one enclosure width for all versions
- safety clips to ensure protection against contact, additional clear cover for the LED modules
- FastFix quick mounting system with retaining clips made of stainless steel
- flexible mounting with movable retaining clips
- front-side in/out wiring (4-pole) possible as standard due to 2 entries on one side
- variable cable entry possible through additional entries on the top of the enclosure at the front or in the centre, centring holes available
- homogeneous illumination by using frosted diffusers
- highest efficiency due to use of top-quality components
- high colour rendering CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- sustainable, all components replaceable on site
- future proof by using standardized LED-modules (Zhaga)

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

See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under [www.schuch.de](http://www.schuch.de).



Article no.	Type	Connected load [W] (incl. battery charge)	Luminous flux [lm]	Luminous flux [lm] (emergency operation)	Luminous efficacy [lm/W]	Operating time 1h	Operating time 3h	Substitute for *	Weight [kg] (without packing material)
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## 161PX ..L../1 H50 MA



for high temperatures up to +50°C

### Note:

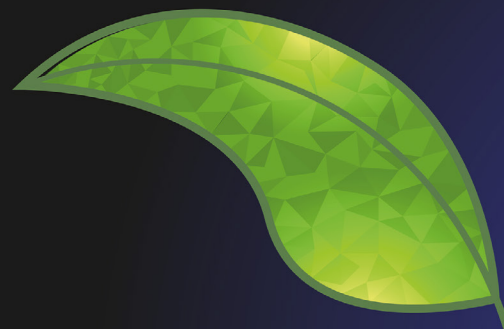
For emergency light 161PX H with battery box please  
please note:  
Through-wiring not possible.

16144 0001	161PX 06L12/1 H50 MA	13	1.340	630	103	•		1 x 18W	3,4
16144 0002	161PX 12L22/1 H50 MA	18	2.380	840	132	•		1 x 36W	4,6
16144 0003	161PX 15L34/1 H50 MA	24	3.430	830	143	•		1 x 58W	5,3
16144 0004	161PX 06L20/1 H50 MA	19	2.260	630	119	•		2 x 18W	3,4
16144 0005	161PX 12L42/1 H50 MA	30	4.220	840	141	•		2 x 36W	4,6
16144 0006	161PX 15L60/1 H50 MA	42	6.130	830	146	•		2 x 58W	5,3
16144 0011	161PX 06L12/3 H50 MA	13	1.340	630	103		•	1 x 18W	3,4
16144 0012	161PX 12L22/3 H50 MA	18	2.380	840	132		•	1 x 36W	4,6
16144 0013	161PX 15L34/3 H50 MA	24	3.430	830	143		•	1 x 58W	5,3
16144 0014	161PX 06L20/3 H50 MA	19	2.260	630	119		•	2 x 18W	3,4
16144 0015	161PX 12L42/3 H50 MA	30	4.220	840	141		•	2 x 36W	4,6
16144 0016	161PX 15L60/3 H50 MA	42	6.130	830	146		•	2 x 58W	5,3

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

Accessories and spare parts please see section „Dustproof/Waterproof LED Light Fitting with Diffuser Series 161PX... “ in our catalogue. When ordering electronic parts or battery sets please always mention the article no. of the respective fitting.

**With passion for  
excellent lighting - since 1895!**



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