

NEW PRODUCTS
LED Light Fittings

2024/25

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



ExeLED 1

LED-Light Fitting for Ex-Zone 1/2/1

Series e865...

Applications:

Hazardous locations of zones 1/2 (gas) and 21/22 (dust).

Design:

Housing: Glass fibre reinforced polyester resin.

Cover: Injected polycarbonate, frosted (F) or clear, silicone gasket.

Closure: Stainless steel clips (KE), two of them as safety clip (KES), to be opened with screwdriver only.

Reflector: Sheet Steel, painted, carrying the encapsulated LED-modules, clipped into the cover, removable as a unit.

Connection: 3 poles up to 4 mm².

Cable entries: 3 entries M25 x 1,5, (2 glands - one of them is plugged)

Standard: Facing downwards or forwards.

Mechanical installation:

Mounting accessories see spare parts/ accessories.

Technical Data:

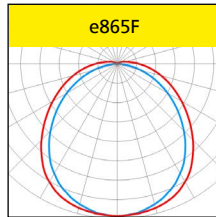
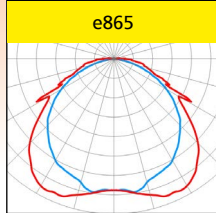
LED: Line modules with clear cover appr. 6,500K, with frosted cover appr. 6,000K, CRI > 80, service life L₈₀ > 100.000h at max. ambient temperature, L₉₀ > 85.000h (06L..) at 25°C ambient temperature, L₉₀ > 80.000h (12L..) at 25°C ambient temperature

ECCG: 220-240V AC/DC, 0 or 50/60Hz, overvoltage, overload and short circuit protection

Options:

- 4.500K, light colour 845
- for connection to group or central battery (light fittings of version ZB only) or emergency mains respectively
- for explosive dust atmospheres Zone 21 (**t868...**)

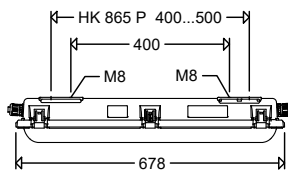
- for higher ambient temperatures up to +70°C
- with through wiring system
- with monitoring module for monitoring the individual light fitting



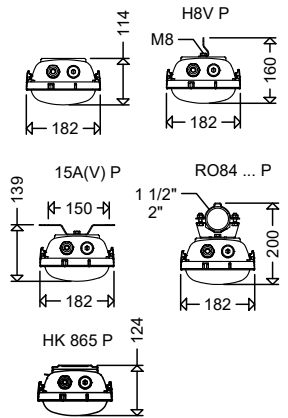
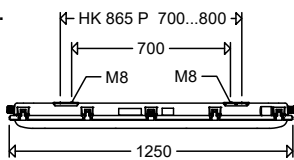
Note:

This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

e865 06L..



e865 12L..



Pole mount with pipe clamps RO84P

Product highlights:

- the light fittings are suitable for use in food areas IFS
- innovative encapsulation with high transmission rate
- LED-Modules protected from mechanical or electrostatic damages by sandwich design of reflector and cover
- homogeneous illumination by using frosted diffusers (versions e865F..) no individual light points visible, comfortable perception of light, brilliant glare limitation
- high colour rendering index CRI > 80, according to the workplace guide lines suitable for nearly all plant locations
- FastFix mounting, system for variable mounting distances and easy installation (retaining clips HK865 P) without opening the fitting
- sustainable, control gear and reflector with LED-modules replaceable by qualified personnel on-site
- the light fittings are suitable for use in food areas (IFS/HACCP), see chapter 9.1 in the „Technical Supplement“

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Ta max [°C]	Substitute for * Weight [kg] (without packing material)
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e865...



EU-Type Examination Certificate:

ATEX: IBExU 16 ATEX 1008

Other approvals:

IECEX: IECEX IBE 16.0010

UKCA: BAS21UKEX0579

Ignition protection: eb

Marking:

II 2 G Ex eb mb q IIC T4 Gb (Zone1)

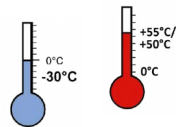
II 2 D Ex tb IIIC T80°C Db (Zone 21)

Rated voltage: 220-240V AC/DC, 0 or 50/60Hz.

Permissible ambient temperature:

-30°C up to see article table

The values given are for versions with through wiring.



86500 0050	e865F 06L22	15	2.170	145	•		55	2 x 18W	4,6
86500 0051	e865F 06L42	28	4.120	147	•		55	2 x 36W	4,7
86500 0052	e865F 06L60	40	5.700	143	•		50	2 x 58W	4,7
86500 0001	e865F 12L42	28	4.360	156	•		55	2 x 36W	6,7
86500 0002	e865F 12L60	40	6.020	151	•		55	2 x 58W	6,7
86500 0003	e865F 12L85	54	8.620	160	•		50	> 2 x 58W	7,0
86500 0011	e865 12L42	28	4.590	164		•	55	2 x 36W	6,7
86500 0012	e865 12L60	40	6.320	158		•	55	2 x 58W	6,7
86500 0013	e865 12L85	54	9.010	167		•	50	> 2 x 58W	7,0

* 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.

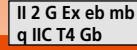


Looping the cable on one side:

All light fittings of series e865... have got 2 cable entries on one small side of the housing for cable looping instead of the through wiring system.

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Cover frosted	Cover clear	Ta max [°C]	Substitute for *	Weight [kg] (without packing material)
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e865... DIMD



dimable via DALI interface

Design:

Same as standard version, but with DALI2 compatible ECG and 2 additional clamping points, marked with DA, the polarity does not matter.

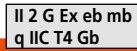
Compatible with LIMAS Line BASIC/PRO Light Management System.

Note:

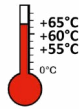
The conducting wires to the control input must be mains voltage stable and can be integrated in the connection cable.

86500 0952	e865F 06L42 DIMD	28	4.120	147	•		55	2 x 36W	4,7
86500 0953	e865F 06L60 DIMD	40	5.700	143	•		50	2 x 58W	4,7
86500 0914	e865F 12L42 DIMD	28	4.360	156	•		55	2 x 36W	6,7
86500 0913	e865F 12L60 DIMD	40	6.020	151	•		55	2 x 58W	6,7
86500 0903	e865F 12L85 DIMD	54	8.620	160	•		50	> 2 x 58W	7,0

e865... H..



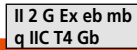
for high temperature ¹⁾



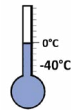
86500 0053	e865F 06L22 H65	15	2.170	145	•		65	2 x 18W	4,6
86500 0054	e865F 06L42 H60	28	4.120	147	•		60	2 x 36W	4,7
86500 0055	e865F 06L60 H55	40	5.700	143	•		55	2 x 58W	4,7
86500 0910	e865F 12L42 H65	28	4.360	156	•		65	2 x 36W	6,7
86500 0902	e865F 12L60 H65	40	6.020	151	•		65	2 x 58W	6,7

NEW

e865... T40



for low ambient temperatures down to -40°C



86500 0065	e865F 06L22 T40	15	2.170	145	•		55	2 x 18W	4,6
86500 0066	e865F 06L42 T40	28	4.120	147	•		55	2 x 36W	4,7
86500 0023	e865F 12L42 T40	28	4.360	156	•		55	2 x 36W	6,7
86500 0024	e865F 12L60 T40	40	6.020	151	•		55	2 x 58W	6,7

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

¹⁾ through-wiring or looping the cable is not permissible.

Accessories / Spare Parts

Article No.	Type	
Spare diffusers		
86601 9001	ABD 8654F	cover, frosted PC diffuser, for e864 12 ..., e865 12..., nD866 12..., nD867 12 ...
86601 9014	ABD 8652F	cover, frosted PC diffuser, for e864 06 ..., e865 06 ..., nD866 06 ..., nD867 06 ...
86601 9000	ABD 8654	cover, diffuser PC clear, for e864 12 ..., e865 12 ..., nD866 12 ..., nD867 12 ...
Fasteners		
90055 9004	KE/KES VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.) see picture on the left, for e 865 12L.. until year of manufacture 2020
90055 9005	KES P	1 pair of safety clips stainless steel for e865 12L.. until year of manufacture 2020
90055 9007	KE/KES G2 VE10	stainless steel, incl. 2 safety clips (packing unit 10 pcs.) see picture on the left, for e 865 12L.. from year of manufacture 2020 and for e 865 06L..
90055 9006	KES G2 P	1 pair of safety clips stainless steel for e865 12L.. from year of manufacture 2020 and for e865 06L..
Glands/breather		
90117 9006	2537 G	ex-protected plastic cable gland M25 x 1,5 with nut
90118 9006	2538 G	ex-protected plastic plug M25 x 1,5 with nut
90119 9001	2539 G	ex-protected plastic cable gland M25 x 1,5 with blanking plug and locknut
90259 9000	KS25 EX	ex-breather M25 x 1,5
Mounting material		
86501 9003	HK 865 P	2 retaining clips for variable mounting distances
90001 0002	H8V P	2 suspensions eyes with bolts, stainless steel
90000 0002	15A P	2 ceiling brackets, hot galvanized steel
90032 0002	15AV P	2 ceiling brackets, stainless steel
90037 0004	RO84 112 A P	2 pipe clamps 1 ½", stainless steel, with support also for pole mounting
90038 0004	RO84 2 A P	2 pipe clamps 2", stainless steel, with support also for pole mounting
26000 0008	W 26 L P	2 wall mounting angles, hot galvanized steel
26000 0002	W 26/30 P	2 wall mounting angles 30°, hot galvanized steel
26000 0003	W 26/45 P	2 wall mounting angles 45°, hot galvanized steel

Fasteners

KE/KES VE10
KES P



KE/KES G2 VE10
KES G2 P



Pipe clamps

2 pipe clamps 1 ½",
stainless steel, with
support



2 pipe clamps 2",
stainless steel, with
support





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

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.

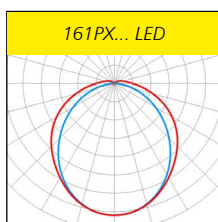
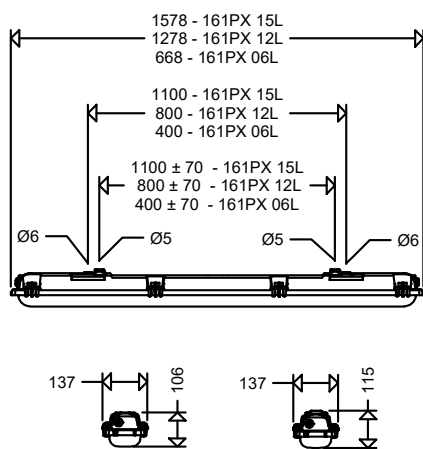
Closure: Three-part plastic safety clips (KKS) to ensure protection against accidental contact.

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.



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.

- with narrow beam optics (TB)

- 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 mm²

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 ∇ -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"

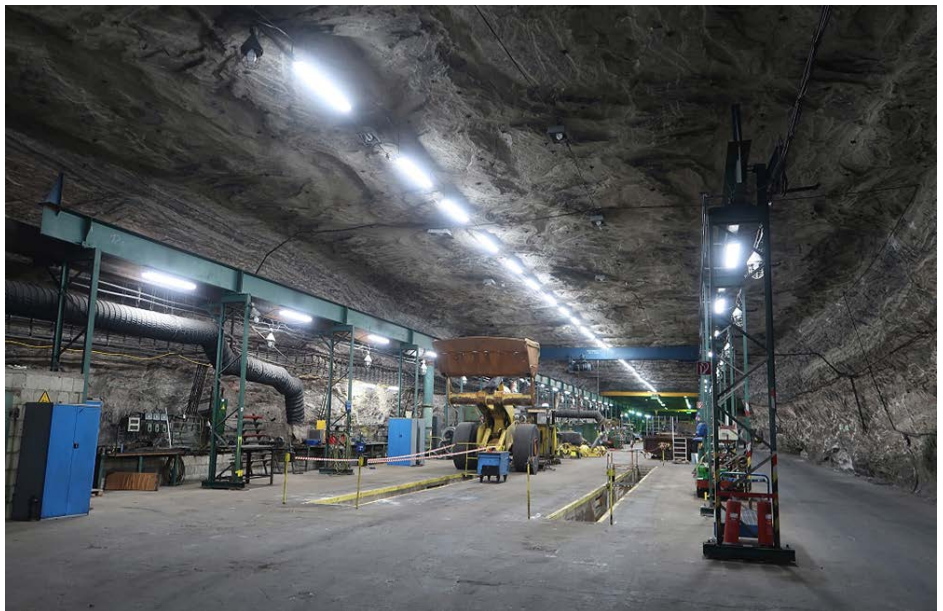
All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

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
NEW 16130 0127	161PX 15L200	1	122	19.400	159	35	6 x 58W	4,2



Dustproof/Waterproof Light Fittings

161PX... 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 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
NEW 16130 0129	161PX 15L200 DIMD	1	122	19.400	159	35	6 x 58W	4,2

* 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]	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:

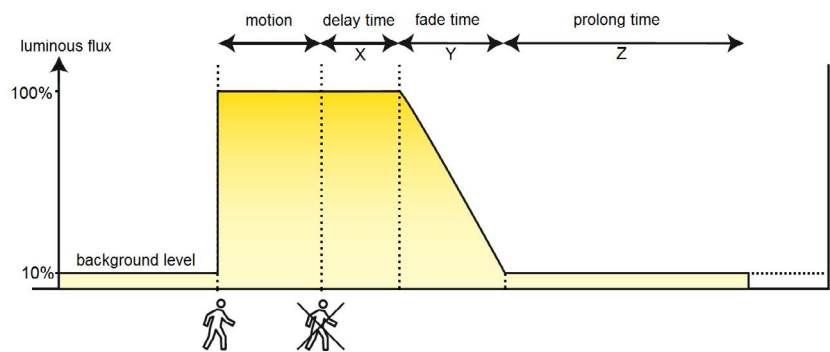
Such light fitting can be controlled by a light fitting of type 161PX... SENS.

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
16130 0130	161PX 15L200 DIMC	1	122	19.400	159	35	6 x 58W	4,2

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
16130 0131	161PX 15L200 DIMC-Z30	1	122	19.400	159	35	6 x 58W	4,2

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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

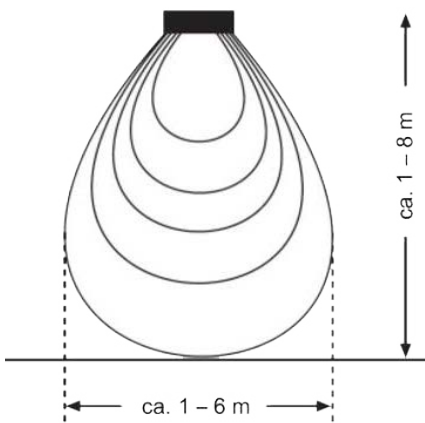
Applications:

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	161PX 12L22 SENS	1	15	2.380	159	40	1 x 36W	2,9
16130 0043	161PX 15L34 SENS	1	21	3.430	163	40	1 x 58W	3,5
16130 0045	161PX 12L42 SENS	1	27	4.220	156	40	2 x 36W	2,9
16130 0046	161PX 15L60 SENS	1	39	6.130	157	40	2 x 58W	3,5
16130 0047	161PX 12L60 SENS	1	39	5.900	151	40	2 x 58W	2,9
16130 0048	161PX 15L75 SENS	1	49	7.410	151	40	> 2 x 58W	3,5
16130 0049	161PX 12L120 SENS	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,2
16130 0050	161PX 15L150 SENS	1	93	14.250	153	35	4 x 58W	3,8
16130 0132	161PX 15L200 SENS	1	122	19.400	159	35	6 x 58W	4,2

NEW

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	161PX 12L22 SENS-Z30	1	15	2.380	159	40	1 x 36W	2,9
16130 0053	161PX 15L34 SENS-Z30	1	21	3.430	163	40	1 x 58W	3,5
16130 0055	161PX 12L42 SENS-Z30	1	27	4.220	156	40	2 x 36W	2,9
16130 0056	161PX 15L60 SENS-Z30	1	39	6.130	157	40	2 x 58W	3,5
16130 0057	161PX 12L60 SENS-Z30	1	39	5.900	151	40	2 x 58W	2,9
16130 0058	161PX 15L75 SENS-Z30	1	49	7.410	151	40	> 2 x 58W	3,5
16130 0059	161PX 12L120 SENS-Z30	1	77	11.470	149	35	2 x 80 bzw. 3 x 58W	3,2
16130 0060	161PX 15L150 SENS-Z30	1	93	14.250	153	35	4 x 58W	3,8
16130 0133	161PX 15L200 SENS-Z30	1	122	19.400	159	35	6 x 58W	4,2

NEW

* 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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NEW 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 CO₂ reduction

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

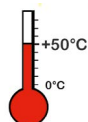
161PX... H50



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

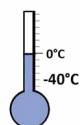


161PX... T40

for ambient temperatures down to -40°C

Applications:

Cooling chambers, frozen food stock etc.



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

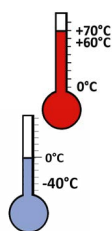
Applications:

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	161PX 12L22 T40 H70	1	15	2.380	159	70	1 x 36W	2,8
16134 0023	161PX 15L34 T40 H70	1	21	3.430	163	70	1 x 58W	3,4
16134 0025	161PX 12L42 T40 H70	1	27	4.220	156	70	2 x 36W	2,8
16134 0026	161PX 15L60 T40 H60	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



NEW

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
16131 0127	161PX 15L200 AUS	1	122	19.400	159	35	6 x 58W	4,2

Dustproof/Waterproof Light Fittings

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.



NEW

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
16132 0127	161PX 15L200 IFS	1	122	19.400	159	35	6 x 58W	4,2

* 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.

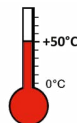
16132 0021	161PX 06L12 LM	1	10	1.340	134	40	1 x 18W	1,7
16132 0022	161PX 12L22 LM	1	15	2.380	159	40	1 x 36W	2,8
16132 0023	161PX 15L34 LM	1	21	3.430	163	40	1 x 58W	3,4
16132 0024	161PX 06L20 LM	1	16	2.260	141	40	2 x 18W	1,7
16132 0025	161PX 12L42 LM	1	27	4.220	156	40	2 x 36W	2,8
16132 0026	161PX 15L60 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
16132 0128	161PX 15L200 LM	1	122	19.400	159	35	6 x 58W	4,2

NEW

161PX... LM H50



for high ambient temperatures up to +50°C

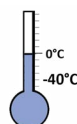


16132 0041	161PX 06L12 LM H50	1	10	1.340	134	50	1 x 18W	1,7
16132 0042	161PX 12L22 LM H50	1	15	2.380	159	50	1 x 36W	2,8
16132 0043	161PX 15L34 LM H50	1	21	3.430	163	50	1 x 58W	3,4
16132 0044	161PX 06L20 LM H50	1	16	2.260	141	50	2 x 18W	1,7
16132 0045	161PX 12L42 LM H50	1	27	4.220	156	50	2 x 36W	2,8
16132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

161PX... HE



highly efficient design for reduced energy consumption

16130 0140	161PX 12L42 HE	1	22	4.050	184		2 x 36W	2,8
16130 0141	161PX 12L60 HE	1	35	6.390	183		2 x 58W	2,8
16130 0142	161PX 12L90 HE	1	52	9.500	183		< 3 x 58W	2,8
16130 0143	161PX 12L120 HE	1	69	12.610	183		2 x 80 bzw. 3 x 58W	2,8
16130 0144	161PX 15L34 HE	1	19	3.690	194		1 x 58W	3,4
16130 0145	161PX 15L60 HE	1	32	6.040	189		2 x 58W	3,4
16130 0146	161PX 15L75 HE	1	43	7.980	186		> 2 x 58W	3,4
16130 0147	161PX 15L120 HE	1	70	12.840	183		2 x 80 bzw. 3 x 58W	3,4
16130 0148	161PX 15L150 HE	1	86	15.760	183		4 x 58W	3,4

NEW

161PX... HE DIMD



dimmable via DALI interface

Design:

Same as standard version HE, but with DALI2-ECG and 2 additional clamping points, marked with DA, the polarity does not matter. Dimming 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 0150	161PX 12L42 HE DIMD	1	22	4.050	184		2 x 36W	2,8
16130 0151	161PX 12L60 HE DIMD	1	35	6.390	183		2 x 58W	2,8
16130 0152	161PX 12L90 HE DIMD	1	52	9.500	183		< 3 x 58W	2,8
16130 0153	161PX 12L120 HE DIMD	1	69	12.610	183		2 x 80 bzw. 3 x 58W	2,8
16130 0154	161PX 15L34 HE DIMD	1	19	3.690	194		1 x 58W	3,4
16130 0155	161PX 15L60 HE DIMD	1	32	6.040	189		2 x 58W	3,4
16130 0156	161PX 15L75 HE DIMD	1	43	7.980	186		> 2 x 58W	3,4
16130 0157	161PX 15L120 HE DIMD	1	70	12.840	183		2 x 80 bzw. 3 x 58W	3,4
16130 0158	161PX 15L150 HE DIMD	1	86	15.760	183		4 x 58W	3,4

Dustproof/Waterproof
Light Fittings

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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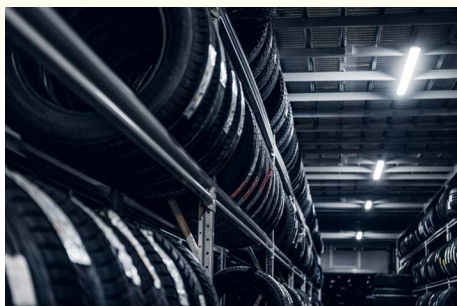
161PX... ER / HR (RESISTANT)



for use in hazardous areas

Note:

See notes in the technical appendix, chapter 4.4.



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

Design:

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

- with through wiring system

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	blinking 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°			

LUXANO 2

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

Applications:

In humid, wet and dusty indoor areas of industrial and agricultural premises, for workshops and car parks etc.

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

Applications:

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: 2 blanking plugs M20.

Cable entries open at the front. Variable cable entry pre-pressed on the long side and top side.

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

VARIO versions with variable setting of the luminous flux

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.

Design:

As standard version but with DIP switch for setting the luminous flux without tools. 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.

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 / HE VARIO / L100 / LW / ER DIMD / T40/50

LED: Linear modules 4,000K, CRI > 80, 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

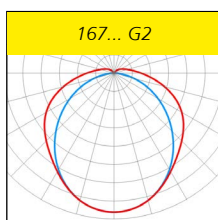
ECCG: 220-240V, 50/60Hz

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

Options:

- 2,200K, 2,700K, 3,000K, 5,000K,
- 6,500K
- through wiring

- quick-connector „Fast Connect“ (FC)
- cable looping (RR)



Product highlights of the VARIO version:

- 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
- ∇ -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

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.

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm ¹⁾	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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NEW

167... G2 / ... G2 VARIO



16700 0020	167 12LG2 VARIO	1	18	2.700	150	35	> 1 x 36W	1,7
			21	3.100	148	35	< 1 x 58W	
			26	3.800	146	35	> 1 x 58W	
			30	4.300 ²⁾	143	35	2 x 36W	
16700 0021	167 15LG2 VARIO	1	25	3.800	152	35	> 1 x 58W	1,9
			29	4.400	152	35	2 x 36W	
			36	5.400	150	35	< 2 x 58W	
			43	6.200 ²⁾	144	35	2 x 58W	
16700 0015	167 15L100G2	1	70	10.690	153	35	3 x 58W	2,0

167... G2 HE VARIO



highly efficient design for reduced energy consumption

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	167 12LG2 HE VARIO	1	20	3.240 ²⁾	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	167 15LG2 HE VARIO	1	25	4.050	162	40	>1 x 58W	2,0
			31	4.960	160	40	2 x 36W	
			36	5.810 ²⁾	161	40	2 x 58W	
			43	6.600	153	35	>2 x 58W	

NEW

167... G2 AUS / ... G2 VARIO AUS



Notes:

- 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)!
- The light fitting is not to be used in areas with high mechanical stress (wind) or seldom usage (i.e. maintenance and inspection only).
- We recommend our series 144... in AUS-version or a weather roof within very critical environmental conditions.

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 0030	167 12LG2 VARIO AUS	1	18	2.700	150	35	> 1 x 36W	1,7
			21	3.100	148	35	< 1 x 58W	
			26	3.800	146	35	> 1 x 58W	
			30	4.300 ²⁾	143	35	2 x 36W	
16701 0031	167 15LG2 VARIO AUS	1	25	3.800	152	35	> 1 x 58W	1,9
			29	4.400	152	35	2 x 36W	
			36	5.400	150	35	< 2 x 58W	
			43	6.200 ²⁾	144	35	2 x 58W	
16701 0020	167 15L100G2 AUS	1	70	10.690	153	35	3 x 58W	2,0

1) possible setting range

2) Factory setting

* 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] ¹⁾	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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NEW

167... G2 IFS / ... G2 VARIO IFS



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.

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 0020	167 12LG2 VARIO IFS	1	18	2.700	150	35	> 1 x 36W	1,7
			21	3.100	148	35	< 1 x 58W	
			26	3.800	146	35	> 1 x 58W	
			30	4.300 ²⁾	143	35	2 x 36W	
16719 0021	167 15LG2 VARIO IFS	1	25	3.800	152	35	> 1 x 58W	1,9
			29	4.400	152	35	2 x 36W	
			36	5.400	150	35	< 2 x 58W	
			43	6.200 ²⁾	144	35	2 x 58W	
16719 0015	167 15L100G2 IFS	1	70	10.690	153	35	3 x 58W	2,0

1) possible setting range
 2) Factory setting

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

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

Dustproof/Waterproof Light Fittings

Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm ¹⁾	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:

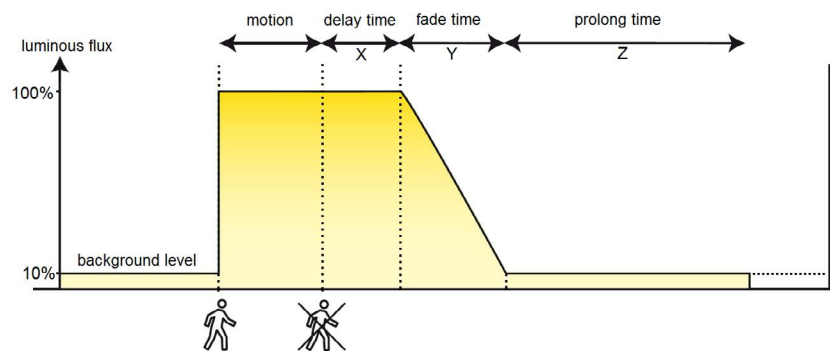
Same as standard version, but with dimmable ECG and additional clamping point, marked with L'.

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	167 15L34G2 DIMC	1	28	3.850	138	35	1 x 58W	2,0
16700 0037	167 12L42G2 DIMC	1	30	4.100	137	35	2 x 36W	1,7
16700 0038	167 15L60G2 DIMC	1	43	6.000	140	35	2 x 58W	2,0
16700 0039	167 15L100G2 DIMC	1	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	167 15L34G2 DIMC-Z30	1	28	3.850	138	35	1 x 58W	2,0
16700 0067	167 12L42G2 DIMC-Z30	1	30	4.100	137	35	2 x 36W	1,7
16700 0068	167 15L60G2 DIMC-Z30	1	43	6.000	140	35	2 x 58W	2,0
16700 0089	167 15L100G2 DIMC-Z30	1	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 ¹⁾	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
-------------	------	-----------------	--------------------	---------------------------------	--------------------------	-----------	------------------	--------------------------------------

NEW

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:

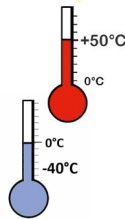
As standard version, but with CASAMBI®-enabled control gear for smart lighting control.

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 CO₂ reduction

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



NEW

167... T40 / H50



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

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



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	167 12L42G2 LW	1	23	4.000	174	35	1 x 58W	1,7
16702 0014	167 15L60G2 LW	1	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.

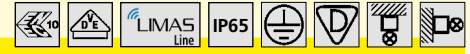
Article no.	Type	Quantity of ECG	Connected load [W]	Luminous flux [lm ¹⁾	Luminous efficacy [lm/W]	Tmax [°C]	Substitute for *	Weight [kg] without packing material
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Note:

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	167 12L42G2 ER DIMD	1	24	4.170	174	35	2 x 36W	1,7
16702 0024	167 15L60G2 ER DIMD	1	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	
spare glasses, PMMA, frosted		
16711 9003	ABD 167 12 G2	cover, frosted PMMA diffuser, for 167 12 ... G2
16711 9004	ABD 167 15 G2	cover, frosted PMMA diffuser, for 167 15 ... G2
16711 9005	ABD 167 12 G2 PC	cover, frosted PC diffuser, for 167 12 ... G2
16711 9006	ABD 167 15 G2 PC	cover, frosted PC diffuser, for 167 15... G2
Fasteners		
90123 9008	167G2 KE V10	stainless steel (packing unit 10)
Cable entries/pressure compensation elements		
90063 9000	2511	blanking plug M20
25610 9000	2561	plastic cable gland M20 x 1,5
90259 9002	DAE20	pressure compensation element M20 for ... AUS
Accessories		
90049 0004	167 VBC P	retaining clips, reinforced for horizontal wall mount (1 pair)

NEW

DUEVO MID

LED High Bay Fitting

with variable setting of the luminous flux

Series 3301/3302...



Applications:

Production areas and warehouses, cool storage facilities, walkways in shelve areas, driveways etc.

Design:

Two versions are available: 1 (3301...) or 2 (3302...) LED-segments.

Housing: Die-cast aluminum, DB 702

(mica-iron paint, grey). LED-segment(s) with LED modules, optics behind tempered safety glass (IK10). ECG segment with integrated electronic control gear, prewired on terminals.

Light distribution: Without optics wide beam, with optics wide (B), narrow-wide (TB) or narrow beam (T).

Switch for setting the luminous flux of the luminaire.

Entries: 1 gland and 1 blind plug M25 x 1,5.

Mounting: 4 eyelets M6 included in delivery.

Technical Data:

LED module: 4,000K, CRI > 80, service life $L_{80} > 100,000h$ at 25°C ambient temperature, service life $L_{70} > 100,000h$ at max. ambient temperature, Zhaga compliant

ECG: 220-240V, 50/60Hz, Surge voltage resistance 4kV, overload and short circuit protection.

Light control:

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

Output reduction with control phase (LR): via 230V control input. Control phase (LST) required. Switching via control phase (LST = 230V: 100%; LST = 0V: 50%). Further dimming levels possible.

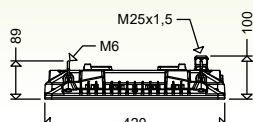
Digital dimming with DALI interface (DIMD) compatible with LIMAS Line and LIMAS Air Light Management System in combination with a FastConnect quick connector.

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

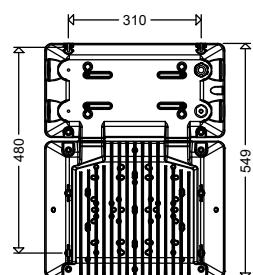
Ambient temperature: -20°C up to +50°C

Options:

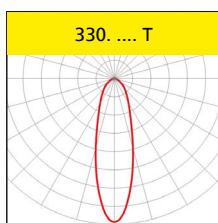
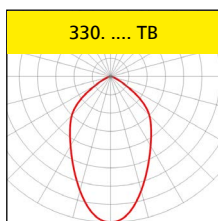
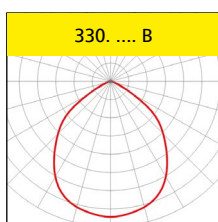
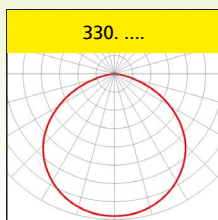
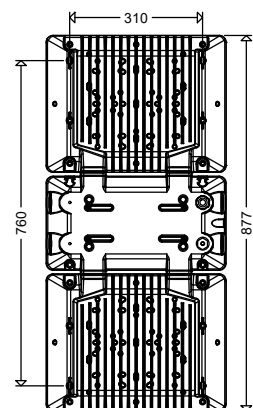
- 5,000K, light colour 850
- PMMA cover frosted (C) for glare limitation
- increased (ER) protection against corrosive atmospheres
- Version with additional threaded holes for swivel arm brackets (swivel range 0° - 45°)
- for connection to group or central battery systems (ZB) or emergency mains respectively
- additional overvoltage protection (OP)
- cable looping (RR)
- various additional cable entries on ceiling and front side
- FastConnect for electrical connection without accessing the internal terminal block



3301...



3302...



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
- high system service life of up to 100,000h at maximum ambient temperature
- optimized thermal management due to direct mounting of the LED modules to the housing and separate housings for ECG- and LED-modules, huge heat sink with excellent heat dissipation
- high quality ECG with overload and short circuit protection
- uniform 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. No dark zones if any single LED would fail. The uniformity of the illumination is kept.
- colour rendering index CRI > 80
- variable electrical installation methods due to max. 8 cable entries (see options)
- ⚠-symbol, suitable for rooms with increased fire risk
- 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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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3301... VARIO



1 LED segment



33011 0001	3301 L210 VARIO
33011 0002	3301 L210B VARIO
33011 0003	3301 L210TB VARIO
33011 0004	3301 L210T VARIO

67 - 135	10.800 - 20.200	161	HME 250 - HIE 400	9,2
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3302... VARIO



2 LED segments



33021 0001	3302 L420 VARIO
33021 0002	3302 L420B VARIO
33021 0003	3302 L420TB VARIO
33021 0004	3302 L420T VARIO

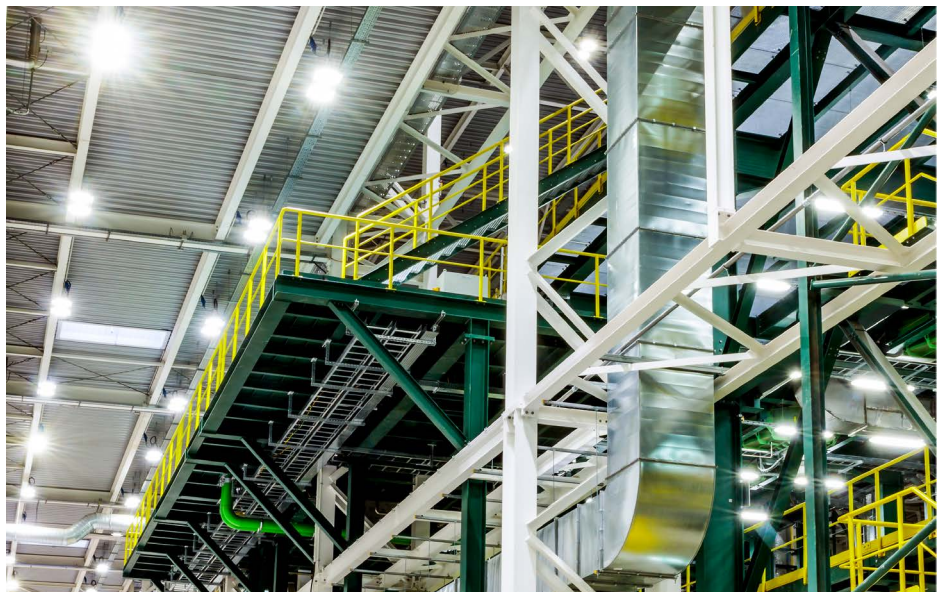
134 - 270	21.600 - 40.400	161	HIE 400 - 2 x HIE 400	14,6
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Factory setting L210: 67 W; replaces approx. ca. HME 250

1) possible setting range

Factory setting L420: 134 W; replaces approx. HIE 400

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

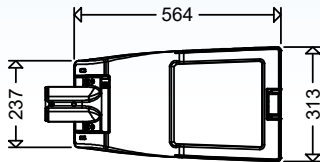


High Bay
Fittings

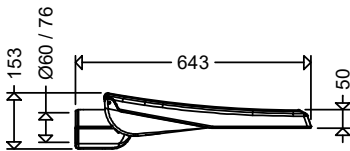
Accessories / Spare Parts

Article no.	Type	
33001 9001	ABD 3301	cover, safety glass pane clear (1 segment), for 3301..., 3302..., 3305...
33001 9006	ABD 3301 IFS	cover, disc PC clear IFS (1 segment), for 3301..., 3302..., 3305...
33001 9010	ABD 3301 C	cover, PMMA frosted disc for glare limitation (1 segment), for 3301..., 3302..., 3305...
25600 9000	2560	plastic gland M25x1,5
25720 9000	2572	plastic plug M25x1,5
33001 9004	3301/3302 Y P	1 pair of Y-ropes, (2-point-mounting)
33001 9002	3301/3302 DBF	1 pair of brackets for direct ceiling mounting ¹⁾
33001 9013	3301/3302 SD	vibration absorbing suspension device ¹⁾

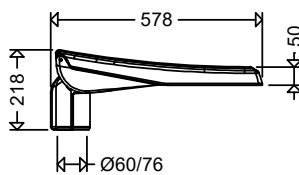
¹⁾ Version Sheet Steel painted. Optional available in stainless steel painted.



Pole-top installation



Pole-mounted installation



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, or 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.

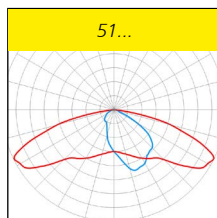
Output reduction without control phase (LA): Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- optics for cycle track (RWX)
- 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) in SKI
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- special painting in RAL colours (SL)
- with backside light shielding (HA)



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.

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



All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

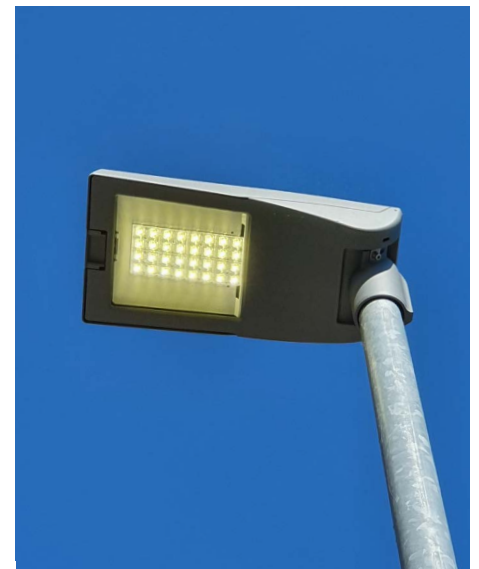
colour temperature 4.000K (light colour 740)

51000 0001	51 0801	9	1.490	166	8,0
51000 0002	51 0802	13	2.080	160	8,0
51000 0003	51 0803	18	2.810	156	8,0
51000 0004	51 1601	17	2.900	171	8,0
51000 0005	51 1602	25	4.050	162	8,0
51000 0006	51 1603	35	5.480	157	8,0
51000 0007	51 2401	26	4.470	172	8,1
51000 0008	51 2402	37	3.200	86	8,1
51000 0009	51 2403	53	8.340	157	8,4
51000 0010	51 3201	34	5.890	173	8,5
51000 0011	51 3202	50	8.170	163	8,5
51000 0012	51 3203	70	10.950	156	8,5
new 51000 0053	51 4801	52	8.770	169	8,6
51000 0054	51 4802	75	12.150	162	8,6
51000 0055	51 4803	106	16.270	153	8,6

colour temperature 3.000K (light colour 730)

51000 0037	51 0801 730	9	1.420	158	8,0
51000 0038	51 0802 730	13	1.980	152	8,0
51000 0039	51 0803 730	18	2.670	148	8,0
51000 0040	51 1601 730	17	2.760	162	8,0
51000 0041	51 1602 730	25	3.850	154	8,0
51000 0042	51 1603 730	35	5.210	149	8,0
51000 0043	51 2401 730	26	4.250	163	8,1
51000 0044	51 2402 730	37	5.890	159	8,1
51000 0045	51 2403 730	53	7.920	149	8,4
51000 0046	51 3201 730	34	5.600	165	8,5
51000 0047	51 3202 730	50	7.760	155	8,5
51000 0048	51 3203 730	70	10.400	149	8,5
new 51000 0056	51 4801 730	52	8.330	160	8,6
51000 0057	51 4802 730	75	11.540	154	8,6
51000 0058	51 4803 730	106	15.460	146	8,6

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



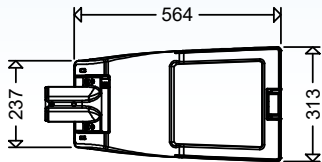
Outdoor
Light Fittings

Accessories / Spare Parts

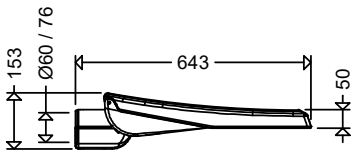
Article No.	Type	
51010 9000	ABD 51	cover, pane safety glas clear, for 51...
90309 0001	RZ 76/42 VIA	adapter for mast top ø of 42mm, black

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

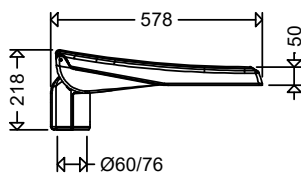
Subject to technical changes, misprints and errors.



Pole-top installation



Pole-mounted installation



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.

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% lower luminous flux)

– protection class I (SKI)

– asymmetrical beam (A), plane surface floodlight-optics

– optics for cycle track (RWX)

– low glare optics (ABL)

– seawater-resistant version (SWP)

– for connection to group or central battery systems (ZB) or emergency lighting networks respectively

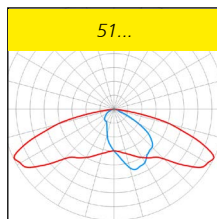
– additional overvoltage protection (OP) in SKI

– inrush current limiter (ESSB)

– with bird deterrence (BD)

– special painting in RAL colours (SL)

– with backside light shielding (HA)



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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	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	51 L50 VARIO	9 - 35	1.330 - 5.480	172	HST 35 - 2 x HST 70	8,5
51001 0002	51 L100 VARIO	16 - 70	2.720 - 10.950	175	HST 50 - HSE 150	8,6
51001 0003	51 L150 VARIO	24 - 106	4.050 - 16.270	169	2 x HME 80 - 2 x HME 250	8,6

colour temperature 3.000K (light colour 730)

51001 0004	51 L50 VARIO 730	9 - 35	1.260 - 5.210	163	HST 35 - 2 x HST 70	8,5
51001 0005	51 L100 VARIO 730	16 - 70	2.580 - 10.400	167	HST 50 - HSE 150	8,6
51001 0006	51 L150 VARIO 730	24 - 106	3.850 - 15.460	160	2 x HME 80 - 2 x HME 250	8,6

Factory setting L50: 18 W; replaces approx. HME 125, HST 70 Factory setting L150: 106 W; replaces approx. 2 x HME 250

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

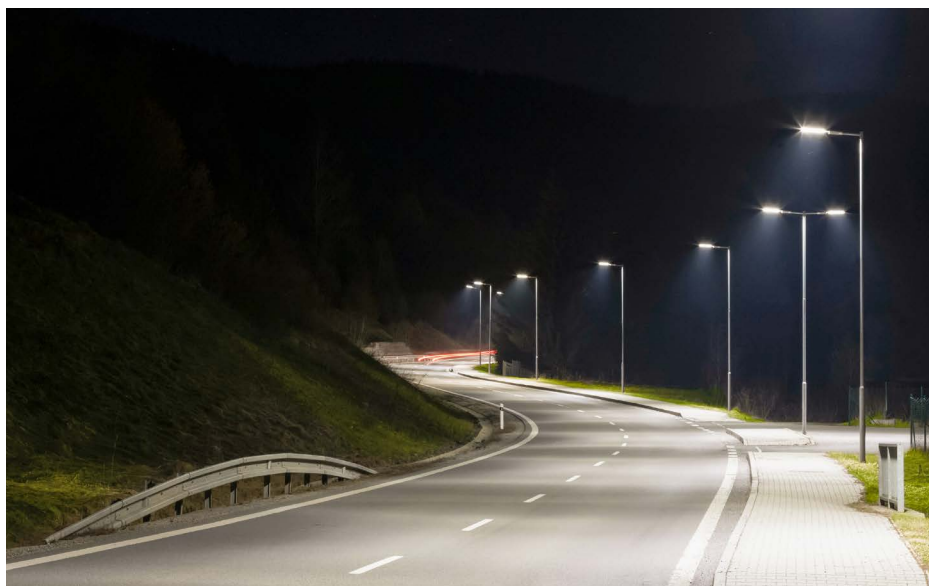
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary. 1) possible setting range

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

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).



Outdoor
Light Fittings

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

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

Subject to technical changes, misprints and errors.



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.

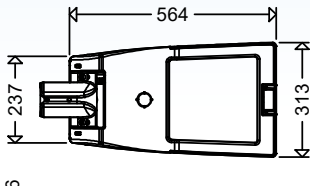
Light distribution: Lens optics, asymmetrical wide beam

Central locking: Aluminium

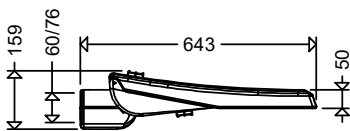
Connection terminal: With disconnect plug connection and strain relief.

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.

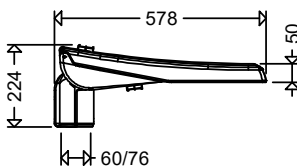
Inclination setting: For pole-top installation 0°, 5°, 10° and 15° (factory setting 0°), for pole-mounting installation 0°, -5°, -10° and -15° depending on the inclination of the bracket arm, scaling on luminaire housing.



Pole-top installation



Pole-mounted installation



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:

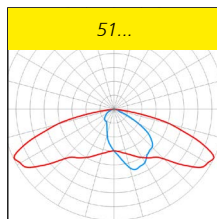
On request, the luminaires are also available with the following configurations:

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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class I (SKI)
- optics for cycle track (RWX)
- 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) in SKI
- inrush current limiter (ESSB)
- with bird deterrence (BD)
- with increased luminous flux up to 15,300lm
- special painting in RAL colours (SL)
- with backside light shielding (HA)



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.

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



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	2.810	156	8,0
51003 0002	51 1603 RFLO	35	5.480	157	8,0
51003 0003	51 2403 RFLO	53	8.340	157	8,4
51003 0004	51 3203 RFLO	70	10.950	156	8,5
NEW 51003 0038	51 4803 RFLO	106	16.270	153	8,6

colour temperature 3.000K (light colour 730)

51003 0013	51 0803 730 RFLO	18	2.670	148	8,0
51003 0014	51 1603 730 RFLO	35	5.210	149	8,0
51003 0015	51 2403 730 RFLO	53	7.920	149	8,4
51003 0016	51 3203 730 RFLO	70	10.400	149	8,5
NEW 51003 0041	51 4803 730 RFLO	106	15.460	146	8,6



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

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	2.810	156	8,0
51003 0006	51 1603 RFLU	35	5.480	157	8,0
51003 0007	51 2403 RFLU	53	8.340	157	8,4
51003 0008	51 3203 RFLU	70	10.950	156	8,5
NEW 51003 0039	51 4803 RFLU	106	16.270	153	8,6

colour temperature 3.000K (light colour 730)

51003 0017	51 0803 730 RFLU	18	2.670	148	8,0
51003 0018	51 1603 730 RFLU	35	5.210	149	8,0
51003 0019	51 2403 730 RFLU	53	7.920	149	8,4
51003 0020	51 3203 730 RFLU	70	10.400	149	8,5
NEW 51003 0042	51 4803 730 RFLU	106	15.460	146	8,6



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	2.810	156	8,0
51003 0010	51 1603 RFLOU	35	5.480	157	8,0
51003 0011	51 2403 RFLOU	53	8.340	157	8,4
51003 0012	51 3203 RFLOU	70	10.950	156	8,5
NEW 51003 0040	51 4803 RFLOU	106	16.270	153	8,6

colour temperature 3.000K (light colour 730)

51003 0021	51 0803 730 RFLOU	18	2.670	148	8,0
51003 0022	51 1603 730 RFLOU	35	5.210	149	8,0
51003 0023	51 2403 730 RFLOU	53	7.920	149	8,4
51003 0024	51 3203 730 RFLOU	70	10.400	149	8,5
NEW 51003 0043	51 4803 730 RFLOU	106	15.460	146	8,6

! 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



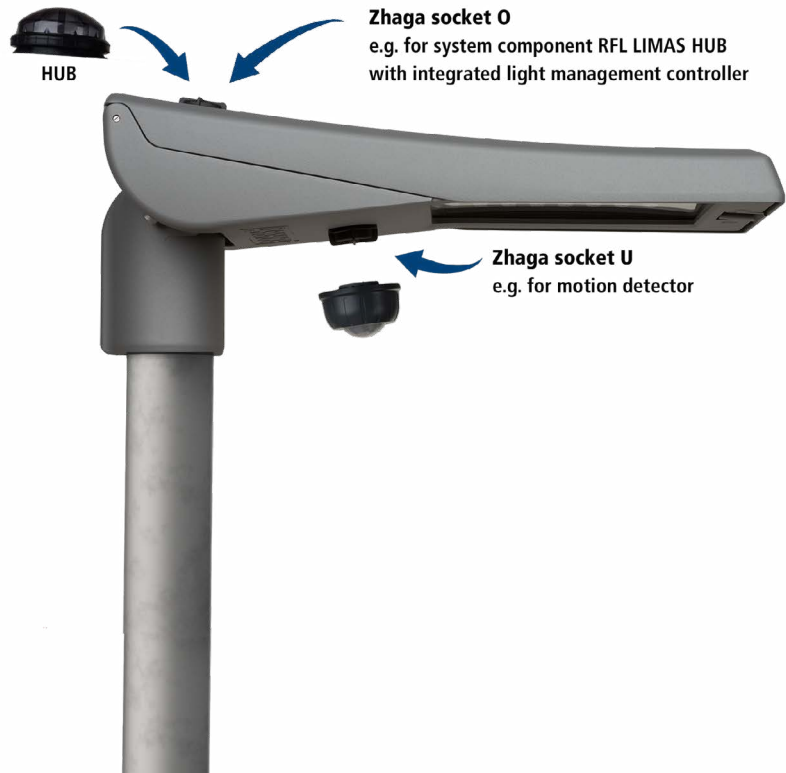
System components

Article No.	Type	
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	radio control with GPS antenna and photocell (twilight control) with integrated SIM card
90546 9014	RFL LIMAS HUB3 G2	radio control with photocell (twilight control)
90546 9011	RFL LIMAS BM RAD HUB LPH max. 8m	radio control with integrated radar motion sensors
90546 9012	RFL LIMAS BM RAD MA LPH max. 10m	radio control with integrated radar motion sensors for pole mounting
90546 9000	RFL DS20 HUB 20lux ON/OFF	twilight switch for autonomous control of RFLO luminaires
90546 9004	RFL BM/DS IR HUB LPH max. 8m	infrared motion sensor - can only be used in conjunction with RFL LIMAS HUB3 G2 and RFL LIMAS HUB3 G2 GPS SIM
90546 9006	RFL BM/DS IR HUB LPH max. 12m	infrared motion sensor / twilight switch - also for standalone operation

Other sensors, e.g. environmental sensors (fine dust, CO₂, weather station etc.) on request.

Control components

Article No.	Type	
90545 0001	LIMAS Dongle USB	enables programming/setup of LIMAS components on site using software and Windows operating system
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	control element with photocell/ twilight switch, GPS antenna and SIM card



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

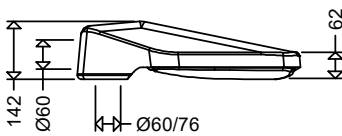
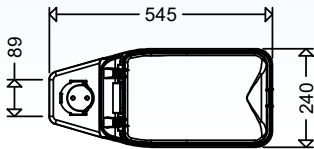
Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

NEW

FILOS LED Outdoor Light Fitting with variable setting of the luminous flux Series 42... VARIO



Polyester housing

**Applications:**

Residential-, through traffic streets, footpaths and cycle tracks, traffic-calmed areas, factory streets, car parks, gateways etc.

Design :

Housing: Glass fibre reinforced polyester resin, unpainted, or painting DB 702 (mica-iron).

Diffuser: UV-stabilized PC, clear, hingeable and detachable.

Gear tray: Aluminium, with LED modul, optics and all electrical components in compact unit protected against accidental contact, isolating plug connection and cable retainer.

Switch for setting the luminous flux of the luminaire.

Central closing: Stainless steel.

Light distribution: Asymmetrical wide beam.

Universal pole mounting device: Die-cast aluminium, for post top mounting Ø 60/76mm and side entry mounting Ø 42/60mm x 100mm.

Inclination: Side entry mounting 0°, -5°, -10° and -15° depending on inclination of the cantilever.

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
(15% lower luminous flux)

- 1,800K, light colour 518 „Amber“
(approx. 45% lower luminous flux)

- protection class I (SKI)

- asymmetrical beam (A), plane surface
floodlight-optics

- optics for cycle track (RWX)

- seawater resistant version (SWP)

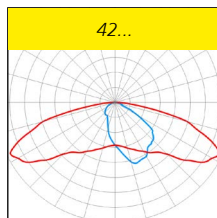
- UV-protected and weather-resistant
housing painted RAL 7035

- additional overvoltage protection (OP)
in SKI

- inrush current limiter (ESSB)

- Ready for Light Management Systems
(RFL)

- with backside light shielding (HA)

**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
- highly economical storage due to standardisation
- ECG with high over-voltage protection 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
- 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. No dark zones in the road if any single LED would fail and the uniformity of the illumination is kept.
- Quick an easy mounting due to
 - tool-free opening of the luminaire by means of a central toggle clamp made of stainless steel
 - gear tray hingeable and detachable
 - removable multi-function cable entry enables pre-assembly of the connection cable
 - integrated universal pole mounting system (side entry mounting Ø 60mm or post top mounting Ø 60/76mm)
- quick changeover due to easily replaceable gear-tray with disconnecter
- eco-friendly, ULOR=0%
- 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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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42... 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.

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

colour temperature 4.000K (light colour 740)

42008 0001	42 L50 VARIO	9 - 35	1.400 - 5.670	181	HST 35 - 2 x HST 70	4,0
42008 0003	42 L80 VARIO	16 - 50	2.840 - 8.370	185	HST 50 - HME 250	4,1
42008 0501	42 L50 VARIO DB702	9 - 35	1.400 - 5.670	181	HST 35 - 2 x HST 70	4,0
42008 0503	42 L80 VARIO DB702	16 - 50	2.840 - 8.370	185	HST 50 - HME 250	4,1

colour temperature 3.000K (light colour 730)

42008 0002	42 L50 VARIO 730	9 - 35	1.330 - 5.390	172	HST 35 - 2 x HST 70	4,0
42008 0004	42 L80 VARIO 730	16 - 50	2.700 - 7.950	176	HST 50 - HME 250	4,1
42008 0502	42 L50 VARIO 730 DB702	9 - 35	1.330 - 5.390	172	HST 35 - 2 x HST 70	4,0
42008 0504	42 L80 VARIO 730 DB702	16 - 50	2.700 - 7.950	176	HST 50 - HME 250	4,1

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

Factory setting L80: 50 W; replaces approx. HME 250

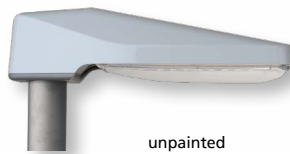
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

1) possible setting range



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

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



unpainted



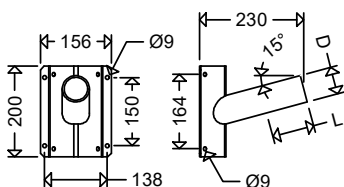
Painted DB 702 (mica-iron)



4871 RAL 7035



4871 DB702



Welded Aluminium Standard Pole Arm Carrier Series 4871

Applications:

For mounting outdoor light fittings on flat walls and corners of buildings.

Design:

Aluminium plate 4 mm thick, powder coated grey (RAL

7035) or mica-iron (DB702), with eight fixing holes \varnothing 9mm and pole arm \varnothing 60mm (100mm long).

Options:

Special painting in RAL colours (SL)

4871

Article no.	Type	D	L	Weight ca. [kg]
48700 0002	4871 RAL 7035	60	100	0,7
48700 0506	4871 DB702	60	100	0,7

Accessories / Spare Parts

Article no.	Type	
42001 9003	ABD 42 PC	cover, diffuser PC clear, UV stabilized, clear, for 42...

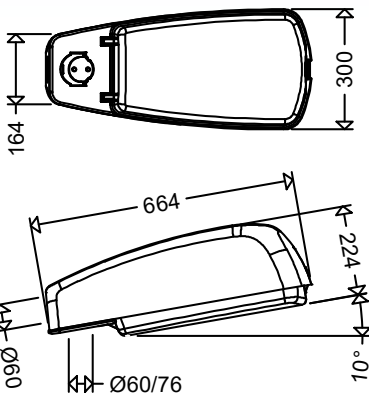
Pipe brackets for wall, pole and corner mounting, and post top brackets please see end of this chapter.

NEW

LUCA Modern LED Outdoor Light Fitting with variable setting of the luminous flux and Multi-Purpose Mounting System Series 46... G2 VARIO



with UV resistant coating



Compact unit with all electrical components, detachable without tools.

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

Universal pole mounting device: Die-cast aluminium, for post top mounting Ø 60/76mm (inclination: 10°) and side entry mounting Ø 60mm. For side entry mounting Ø 42mm, separate reducing accessories are required (see accessories / spare parts).

Inclination: Side entry mounting 0°, -5°, -10° and -15° depending on inclination of the cantilever.

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.

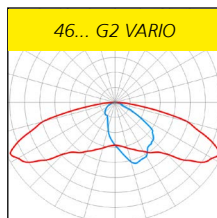
Output reduction without control phase (LA): Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- protection class I (SKI)
- asymmetrical beam (A), plane surface floodlight-optics
- 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) in SKI
- 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)
- aluminium housing (AL)
- with backside light shielding (HA)



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, 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)

! 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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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IP65  Wind load area A = 0,11

46... G2 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.

! All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

colour temperature 4.000K (light colour 740)

46007 0001	46 L50 VARIO	9 - 35	1.420 - 5.840	184	HST 35 - 2 x HST 70	5,9
46007 0002	46 L100 VARIO	16 - 70	2.910 - 11.720	188	HST 50 - HSE 150	6,0

colour temperature 3.000K (light colour 730)

46007 0003	46 L50 VARIO 730	9 - 35	1.350 - 5.550	174	HST 35 - 2 x HST 70	5,9
46007 0004	46 L100 VARIO 730	16 - 70	2.760 - 11.130	178	HST 50 - HSE 150	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



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

! 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	ABD 46 G2 PC K	cover, diffuser PC clear, UV stabilized, for 46...
90306 0003	RZ 60/42 LUCA	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.

Subject to technical changes, misprints and errors.

NEW

PENDO

Rope Supported LED Light Fitting with variable setting of the luminous flux

Series 59 ... VARIO



Applications:

Residential and service roads, by-roads and main roads etc.

Design:

Housing: Die-cast aluminium, 2-parts, powder coated in DB 702 (mica-iron paint, grey). **Lower section** with LED-Module, optics, glass cover and ECG, tool-free hingeable and detachable. **Upper section** with bracket, adjustment of inclination, cable entry with pressure compensation system.

Glass cover: Flat safety glass, impact

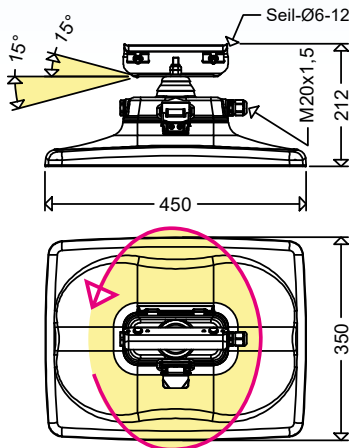
resistance IK10.

Light distribution: Symmetrical wide beam.

Switch for setting the luminous flux of the luminaire.

Connecting terminal: With plug-in connection in junction box between upper and lower section, tool-free separation of upper and lower section.

Mounting: Stainless steel. Turnable (all directions) and adjustable by 15°, mountable on ropes of 6 - 12mm diameter.



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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% lower luminous flux)

– protection class I (SKI)

– seawater-resistant version (SWP)

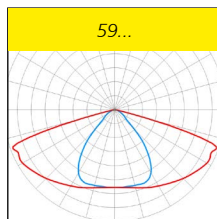
– additional overvoltage protection (OP) in SKI

– inrush current limiter (ESSB)

– 3-point supporting bracket (3P)

– flux via app (VARIO NFC)

– special painting in RAL colours (SL)



Outstanding mounting advantage



Product highlights:

- ECG with surge voltage resistance, reliable due to overload and short circuit protection
- optimized thermal management due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- long-lasting, corrosion resistant die-cast aluminium housing with plain surface. Deposit of greenery and dirt is not possible
- integrated pressure compensation system prevents condensation in the interior
- time- and cost-saving mounting in 2 steps due to tool-free removable lower part of the housing:
 - 1st step:** Hinge upper part with bracket onto the rope and connect the mains
 - 2nd step:** Hinge lower part, connect isolating plug, shut the housing and close. **READY**
- universal usage on cross- and longitudinal ropes, inclined ropes or 3-point rope supports (see accessories) due to all-side rotatable and up to 15° inclinable stainless steel bracket
- tool-free disconnection (also electrical!) of the lower part from the upper part allows a comfortable replacement of the components at site or in the workshop, extensive dismantling of the fitting or uncomfortable "over-head working" is not necessary
- efficient and 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. No dark zones in the road if any single LED would fail and the uniformity of the illumination is kept.
- 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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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59... 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.

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

colour temperature 4.000K (light colour 740)

59005 0005	59 L50 VARIO	9 - 35	1.470 - 6.070	190	HST 35 - 2 x HST 70	6,6
59005 0006	59 L100 VARIO	16 - 70	2.950 - 12.080	191	HST 50 - HSE 150	7,0

colour temperature 3.000K (light colour 730)

59005 0007	59 L50 VARIO 730	9 - 35	1.400 - 5.770	181	HST 35 - 2 x HST 70	6,6
59005 0008	59 L100 VARIO 730	16 - 70	2.800 - 11.480	182	HST 50 - HSE 150	7,0

Factory setting L50: 18 W; replaces approx. HME 125, HST 70 Factory setting L100: 50 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).



Optionally also with 3-point mounting (3P)



Accessories / Spare Parts

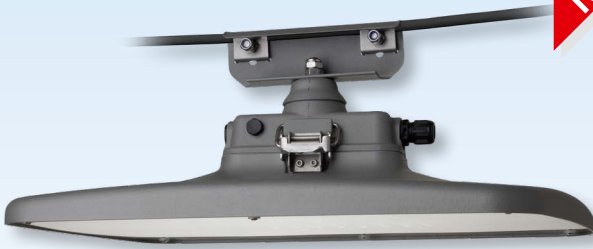
Article no.	Type	
49001 9003	ABD 59	cover, pane safety glass clear, for 59...

NEW

PENDO

Rope Supported LED Light Fitting with variable setting of the luminous flux

Series 49 ... VARIO



Applications:

Through, collecting and main roads etc.

Design:

Housing: Die-cast aluminium, 2-parts, powder coated in DB 702 (mica-iron paint, grey). **Lower section** with LED-Module, optics, glass cover and ECG, tool-free hingeable and detachable. **Upper section** with bracket, adjustment of inclination, cable entry with pressure compensation system. **Glass cover:** Flat safety glass, impact

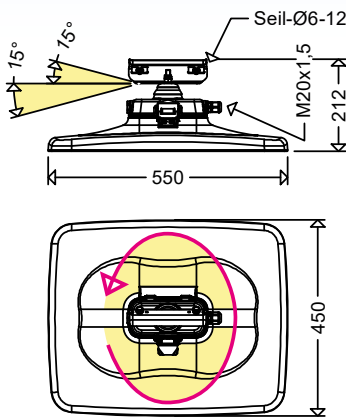
resistance IK10.

Light distribution: Symmetrical wide beam.

Switch for setting the luminous flux of the luminaire.

Connecting terminal: With plug-in connection in junction box between upper and lower section, tool-free separation of upper and lower section.

Mounting: Stainless steel. Turnable (all directions) and adjustable by 15°, mountable on ropes of 6 - 12mm diameter.



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.

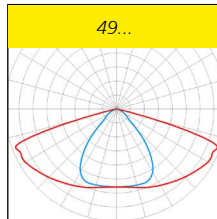
Digital dimming with DALI interface (DIMD)

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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- protection class I (SKI)
- adaptive Light EcoTune (ET)
- seawater-resistant version (SWP)
- additional overvoltage protection (OP) in SKI
- inrush current limiter (ESSB)
- 3-point supporting bracket (3P)
- special painting in RAL colours (SL)

Outstanding mounting advantage



Product highlights:

- ECG with surge voltage resistance, reliable due to overload and short circuit protection
- optimized thermal management due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- long-lasting, corrosion resistant die-cast aluminium housing with plain surface. Deposit of greenery and dirt is not possible
- integrated pressure compensation system prevents condensation in the interior
- time- and cost-saving mounting in 2 steps due to tool-free removable lower part of the housing:
 - 1st step:** Hinge upper part with bracket onto the rope and connect the mains.
 - 2nd step:** Hinge lower part, connect isolating plug, shut the housing and close. READY
- universal usage on cross- and longitudinal ropes, inclined ropes or 3-point rope supports (see accessories) due to all-side rotatable and up to 15° inclinable stainless steel bracket
- tool-free disconnection (also electrical!) of the lower part from the upper part allows a comfortable replacement of the components at site or in the workshop, extensive dismantling of the fitting or uncomfortable "over-head working" is not necessary
- efficient and 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. No dark zones in the road if any single LED would fail and the uniformity of the illumination is kept.
- 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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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49... 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.

! All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

colour temperature 4.000K (light colour 740)

49004 0001	49 L210 VARIO	32 - 140	5.790 - 23.570	181	2 x HST 70 - HME 400	11,8
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colour temperature 3.000K (light colour 730)

49004 0002	49 L210 VARIO 730	32 - 140	5.500 - 22.390	180	2 x HST 70 - HME 400	11,8
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Factory setting L210: 140 W; replaces approx. HME 400

* 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).

Optionally also with 3-point mounting (3P)



Accessories / Spare Parts

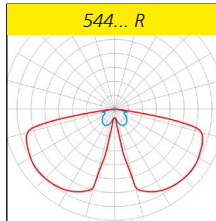
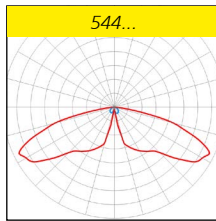
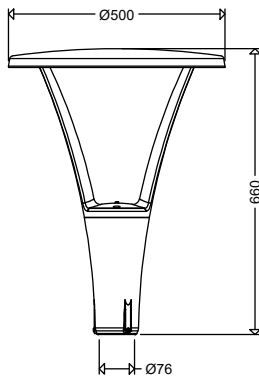
Article no.	Type	
49001 9001	ABD 49	cover, pane safety glass clear, for 49...

NEW

KONIC LED Pole-Top Light Fitting Series 544... G2



**BLACK
EDITION**



Applications:

544... AB:

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

544... R:

Promenades, public parks, pedestrian areas etc.

Design:

Housing: Die-cast aluminium, threepart, powder coated DB 702 (mica-iron paint, grey).

Lower section with electrical components, cable entry, plug-type device and cable

retainer for connection cable.

Connecting struts with cable feed-through.

Upper part with LED-modules and optics.

Cover: flat safety glass, impact resistance IK09

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% lower luminous flux)

– protection class I (SKI)

– optics for cycle track (RWX)

– seawater-resistant version (SWP)

– for connection to group or central battery systems (ZB) or emergency lighting networks respectively

– with increased luminous flux

– special painting in RAL colours (SL)

– with backside light shielding (HA)



Product highlights:

- ECG with surge voltage resistance, reliable due to overload and short circuit protection
- optimized thermal management due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- long-lasting, corrosion resistant aluminium housing with plain surface
- 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.
- good glare limitation due to frosted cover
- easy to install, to maintain and to retrofit
 - removable upper part of the housing allows time- and cost-saving mounting, mains connection terminal within the supporting section
 - fast maintenance due to an easily interchangeable gear-tray system (modular concept) within the supporting section, ECG can be replaced on-site
 - upgrades or converts in regards to technical development of the LED without problems by change of the upper part of the housing, after the change of the LED-modules the upper part of the housing can be used again
- BlackEdition, ULOR=0%
- 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.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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IP65  Wind load area A = 0,07m²

544... G2

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

54404 0001	544 0801 G2	9	1.410	157	9,5
54404 0002	544 0802 G2	13	1.970	152	9,5
54404 0003	544 0803 G2	18	2.680	149	9,5
54404 0004	544 1601 G2	17	2.730	161	9,6
54404 0005	544 1602 G2	25	3.820	153	9,6
54404 0006	544 1603 G2	35	5.180	148	9,6
54404 0007	544 2401 G2	26	4.110	158	9,7
54404 0008	544 2402 G2	37	5.730	155	9,7
54404 0009	544 2403 G2	53	7.750	146	9,7

colour temperature 3.000K (light colour 730)

54404 0010	544 0801 G2 730	9	1.340	149	9,5
54404 0011	544 0802 G2 730	13	1.870	144	9,5
54404 0012	544 0803 G2 730	18	2.550	142	9,5
54404 0013	544 1601 G2 730	17	2.590	152	9,6
54404 0014	544 1602 G2 730	25	3.630	145	9,6
54404 0015	544 1603 G2 730	35	4.920	141	9,6
54404 0016	544 2401 G2 730	26	3.900	150	9,7
54404 0017	544 2402 G2 730	37	5.440	147	9,7
54404 0018	544 2403 G2 730	53	7.360	139	9,7

IP65  Wind load area A = 0,07m²

544... R G2

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54404 0019	544 0801R G2	9	1.410	157	9,5
54404 0020	544 0802R G2	13	1.970	152	9,5
54404 0021	544 0803R G2	18	2.680	149	9,5
54404 0022	544 1601R G2	17	2.730	161	9,6
54404 0023	544 1602R G2	25	3.820	153	9,6
54404 0024	544 1603R G2	35	5.180	148	9,6
54404 0025	544 2401R G2	26	4.110	158	9,7
54404 0026	544 2402R G2	37	5.730	155	9,7
54404 0027	544 2403R G2	53	7.750	146	9,7

colour temperature 3.000K (light colour 730)

54404 0028	544 0801R G2 730	9	1.340	149	9,5
54404 0029	544 0802R G2 730	13	1.870	144	9,5
54404 0030	544 0803R G2 730	18	2.550	142	9,5
54404 0031	544 1601R G2 730	17	2.590	152	9,6
54404 0032	544 1602R G2 730	25	3.630	145	9,6
54404 0033	544 1603R G2 730	35	4.920	141	9,6
54404 0034	544 2401R G2 730	26	3.900	150	9,7
54404 0035	544 2402R G2 730	37	5.440	147	9,7
54404 0036	544 2403R G2 730	53	7.360	139	9,7

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

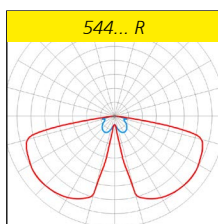
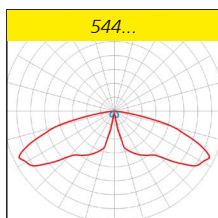
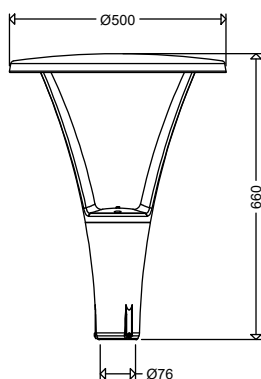


Accessories / Spare Parts

Article No.	Type	
54410 0001	ABD 544 G2	cover, pane safety glass clear, for 544...

NEW**KONIC****LED Pole-Top Light Fitting with variable setting of the luminous flux****Series 544... G2 VARIO**

**BLACK
EDITION**

**Applications:**

544...:

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

544... R:

Promenades, public parks, pedestrian areas etc.

Design:**Housing:** Die-cast aluminium, threepart, powder coated DB 702 (mica-iron paint, grey).**Lower section** with electrical components, cable entry, plug-type device and cable retainer for connection cable.**Connecting struts** with cable feed-through.**Upper part** with LED-modules and optics.**Cover:** flat safety glass, impact resistance IK09**Light distribution:** Asymmetrical wide beam or symmetrical circular beam (R). **Switch** for setting the luminous flux of the luminaire.**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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- special painting in RAL colours (SL)
- with backside light shielding (HA)

Product highlights:

- ECG with surge voltage resistance, reliable due to **overload and short circuit protection**
- **optimized thermal management** due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- **long-lasting, corrosion resistant aluminium housing** with plain surface
- **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.
- **good glare limitation** due to frosted cover
- **easy to install, to maintain and to retrofit**
 - removable upper part of the housing allows **time- and cost-saving mounting**, mains connection terminal within the supporting section
 - **fast maintenance** due to an easily interchangeable **gear-tray system (modular concept)** within the supporting section, ECG can be replaced on-site
 - **upgrades or converts in regards to technical development** of the LED without problems by **change of the upper part of the housing**, after the change of the LED-modules the upper part of the housing can be used again
- **BlackEdition, ULOR=0%**
- **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.

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

asymmetrical wide beam

colour temperature 3.000K (light colour 730)

54405 0001	544 L25 G2 VARIO	5 - 18	640 - 2.680	157	HST 35 - HST 50	9,5
54405 0002	544 L50 G2 VARIO	9 - 35	1.250 - 5.180	162	HST 35 - 2 x HST 70	9,6
54405 0003	544 L100 G2 VARIO	16 - 70	2.460 - 10.080	160	HST 50 - HSE 150	9,8

colour temperature 3.000K (light colour 730)

54405 0004	544 L25 G2 VARIO 730	5 - 18	610 - 2.550	149	HST 35 - HST 50	9,5
54405 0005	544 L50 G2 VARIO 730	9 - 35	1.190 - 4.920	154	HST 35 - 2 x HST 70	9,6
54405 0006	544 L100 G2 VARIO 730	16 - 70	2.340 - 9.580	152	HST 50 - HSE 150	9,8

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54405 0007	544 L25R G2 VARIO	5 - 18	640 - 2.680	157	HST 35 - HST 50	9,5
54405 0008	544 L50R G2 VARIO	9 - 35	1.250 - 5.180	162	HST 35 - 2 x HST 70	9,6
54405 0009	544 L100R G2 VARIO	16 - 70	2.460 - 10.080	160	HST 50 - HSE 150	9,8

colour temperature 3.000K (light colour 730)

54405 0010	544 L25R G2 VARIO 730	5 - 18	610 - 2.550	149	HST 35 - HST 50	9,5
54405 0011	544 L50R G2 VARIO 730	9 - 35	1.190 - 4.920	154	HST 35 - 2 x HST 70	9,6
54405 0012	544 L100R G2 VARIO 730	16 - 70	2.340 - 9.580	152	HST 50 - HSE 150	9,8

Factory setting L25: 18 W; replaces approx. HME 80, HST 50

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

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

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

1) possible setting range

! All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



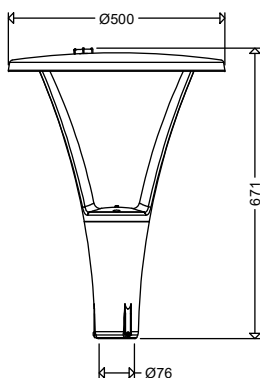
All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

! 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	
54410 0001	ABD 544 G2	cover, pane safety glass clear, for 544...

NEW**KONIC****Ready for Light Management System****Series 544... G2 RFL**
**Applications:**

544...:

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

544... R:

Promenades, public parks, pedestrian areas etc.

Design:

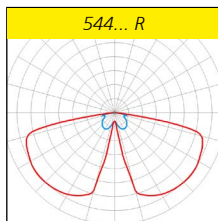
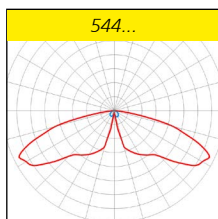
The luminaires are prepared for the subsequent use of a light management system. An integrated socket allows retrofitting of light management components without tools.

Housing: Die-cast aluminium, threepart, powder coated DB 702 (mica-iron paint, grey).**Lower section** with electrical components, cable entry, plug-type device and cable retainer for connection cable.**Connecting struts** with cable feed-through.**Upper part** with LED-modules and optics.**Zhaga compliant socket** on the top side of the housing.**Cover:** flat safety glass, impact resistance IK09**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).

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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- protection class I (SKI)
- optics for cycle track (RWX)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- with increased luminous flux
- special painting in RAL colours (SL)
- with backside light shielding (HA)

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 socket allows free choice of light management system
- ECG with surge voltage resistance 10kV
- optimized thermal management due to direct adaption of the LED-modules to the housing
- service life $L_{90} > 100,000h$
- long-lasting, corrosion resistant aluminium housing with plain surface
- optimal light distribution due to highly efficient lens optics
- easy to install, to maintain and to retrofit
 - removable upper part of the housing allows time- and cost-saving mounting, mains connection terminal within the supporting section
 - fast maintenance due to an easily interchangeable gear-tray system (modular concept) within the supporting section, ECG can be replaced on-site
 - upgrades or converts in regards to technical development of the LED without problems by change of the upper part of the housing, after the change of the LED-modules the upper part of the housing can be used again
- BlackEdition, ULOR=0%
- sustainable, control gear and LED-module replaceable by qualified personnel on-site
- future proof by using standardized LED-modules (Zhaga) and Socket

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.

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



with a socket on the top side of the luminaire

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

54406 0001	544 0803 G2 RFLO	18	2.680	149	9,5
54406 0002	544 1603 G2 RFLO	35	5.180	148	9,6
54406 0003	544 2403 G2 RFLO	53	7.750	146	9,7

colour temperature 3.000K (light colour 730)

54406 0004	544 0803 G2 730 RFLO	18	2.550	142	9,5
54406 0005	544 1603 G2 730 RFLO	35	4.920	141	9,6
54406 0006	544 2403 G2 730 RFLO	53	7.360	139	9,7

544... R RFLO



with a socket on the top side of the luminaire

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54406 0007	544 0803R G2 RFLO	18	2.680	149	9,5
54406 0008	544 1603R G2 RFLO	35	5.180	148	9,6
54406 0009	544 2403R G2 RFLO	53	7.750	146	9,7

colour temperature 3.000K (light colour 730)

54406 0010	544 0803R G2 730 RFLO	18	2.550	142	9,5
54406 0011	544 1603R G2 730 RFLO	35	4.920	141	9,6
54406 0012	544 2403R G2 730 RFLO	53	7.360	139	9,7

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 DS20 HUB 20lux ON/OFF



LIMAS USB-Dongle



System components

Article No.	Type	
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	radio control with GPS antenna and photocell (twilight control) with integrated SIM card
90546 9014	RFL LIMAS HUB3 G2	radio control with photocell (twilight control)
90546 9000	RFL DS20 HUB 20lux ON/OFF	twilight switch for autonomous control of RFLO luminaires

Other sensors, e.g. environmental sensors (fine dust, CO₂, weather station etc.) on request.

Control components

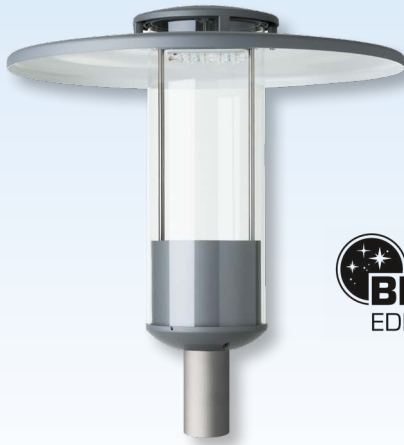
Article No.	Type	
90545 0001	LIMAS Dongle USB	enables programming/setup of LIMAS components on site using software and Windows operating system
90546 9010	RFL LIMAS HUB3 G2 GPS SIM	control element with photocell/ twilight switch, GPS antenna and SIM card

Accessories / Spare Parts

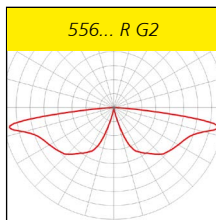
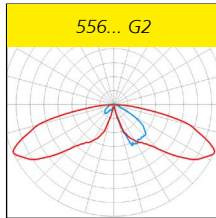
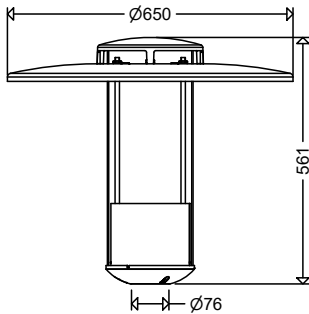
Article No.	Type	
54410 0001	ABD 544 G2	cover, pane safety glass clear, for 544...

NEW

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



**BLACK
EDITION**



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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% 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)

– with backside light shielding (HA)

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.

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

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

55600 0001	556 0801 G2	9	1.430	159	6,7
55600 0002	556 0802 G2	13	2.000	154	6,7
55600 0003	556 0803 G2	18	2.690	149	6,7
55600 0004	556 1601 G2	17	2.850	168	6,8
55600 0005	556 1602 G2	25	3.950	158	6,8
55600 0006	556 1603 G2	35	5.280	151	6,8

colour temperature 3.000K (light colour 730)

55600 0013	556 0801 G2 730	9	1.360	151	6,7
55600 0014	556 0802 G2 730	13	1.900	146	6,7
55600 0015	556 0803 G2 730	18	2.560	142	6,7
55600 0016	556 1601 G2 730	17	2.710	159	6,8
55600 0017	556 1602 G2 730	25	3.750	150	6,8
55600 0018	556 1603 G2 730	35	5.020	143	6,8

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55600 0007	556 0801R G2	9	1.430	144	6,7
55600 0008	556 0802R G2	13	2.000	135	6,7
55600 0009	556 0803R G2	18	2.690	152	6,7
55600 0010	556 1601R G2	17	2.850	156	6,8
55600 0011	556 1602R G2	25	3.950	142	6,8
55600 0012	556 1603R G2	35	5.280	135	6,8

colour temperature 3.000K (light colour 730)

55600 0019	556 0801R G2 730	9	1.360	151	6,7
55600 0020	556 0802R G2 730	13	1.900	146	6,7
55600 0021	556 0803R G2 730	18	2.560	142	6,7
55600 0022	556 1601R G2 730	17	2.710	159	6,8
55600 0023	556 1602R G2 730	25	3.750	150	6,8
55600 0024	556 1603R G2 730	35	5.020	143	6,8



with ring mirror

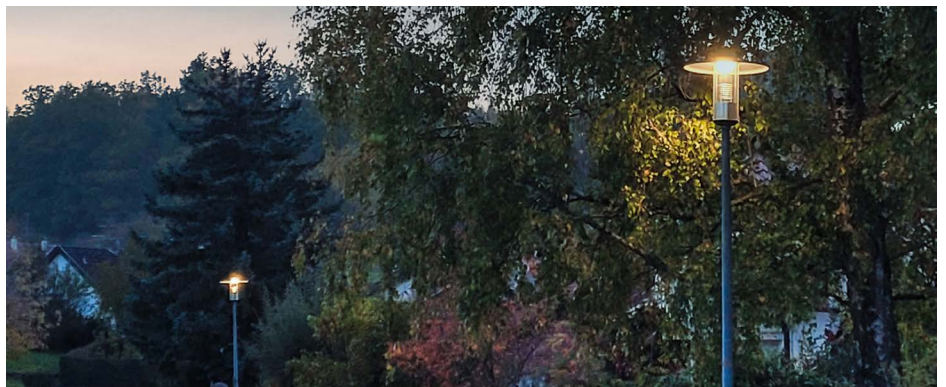


with frosted board cover



with frosted board cover and ring mirror

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

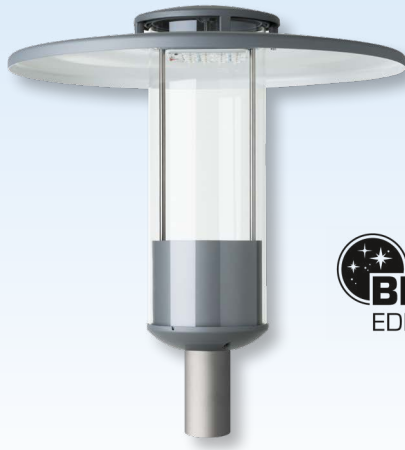


Accessories / Spare Parts

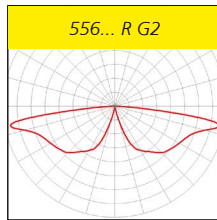
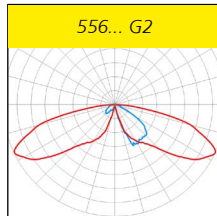
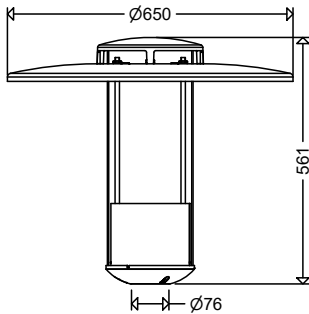
Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm

NEW

CUPINA LED Pole-Top Light Fitting with variable setting of the luminous flux Series 556... G2 VARIO



**BLACK
EDITION**



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).

Switch for setting the luminous flux of the luminaire.

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% 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)

– with backside light shielding (HA)

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.

NEW

PLANEO LED Pole-Top Light Fitting Series 557... G2



**BLACK
EDITION**

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 :

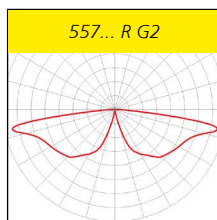
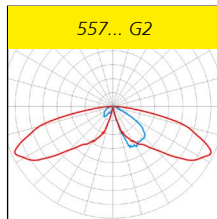
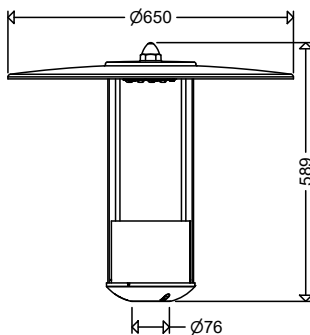
Roof and supporting section: Aluminium, powder-coated DB 702 (mica-iron paint, grey)

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

– (approx. 45% 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)

– with backside light shielding (HA)

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.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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IP54  Wind load area A = 0,13m²

557... G2

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

55701 0001	557 0801 G2	9	1.430	159	5,9
55701 0002	557 0802 G2	13	2.000	154	5,9
55701 0003	557 0803 G2	18	2.690	149	5,9
55701 0004	557 1601 G2	17	2.850	168	6,0
55701 0005	557 1602 G2	25	3.950	158	6,0
55701 0006	557 1603 G2	35	5.280	151	6,0

colour temperature 3.000K (light colour 730)

55701 0013	557 0801 G2 730	9	1.360	151	5,9
55701 0014	557 0802 G2 730	13	1.900	146	5,9
55701 0015	557 0803 G2 730	18	2.560	142	5,9
55701 0016	557 1601 G2 730	17	2.710	159	6,0
55701 0017	557 1602 G2 730	25	3.750	150	6,0
55701 0018	557 1603 G2 730	35	5.020	143	6,0

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55701 0007	557 0801R G2	9	1.430	159	5,9
55701 0008	557 0802R G2	13	2.000	154	5,9
55701 0009	557 0803R G2	18	2.690	149	5,9
55701 0010	557 1601R G2	17	2.850	168	6,0
55701 0011	557 1602R G2	25	3.950	158	6,0
55701 0012	557 1603R G2	35	5.280	151	6,0

colour temperature 3.000K (light colour 730)

55701 0013	557 0801R G2 730	9	1.360	151	5,9
55701 0014	557 0802R G2 730	13	1.900	146	5,9
55701 0015	557 0803R G2 730	18	2.560	142	5,9
55701 0016	557 1601R G2 730	17	2.710	159	6,0
55701 0017	557 1602R G2 730	25	3.750	150	6,0
55701 0018	557 1603R G2 730	35	5.020	143	6,0



with ring mirror

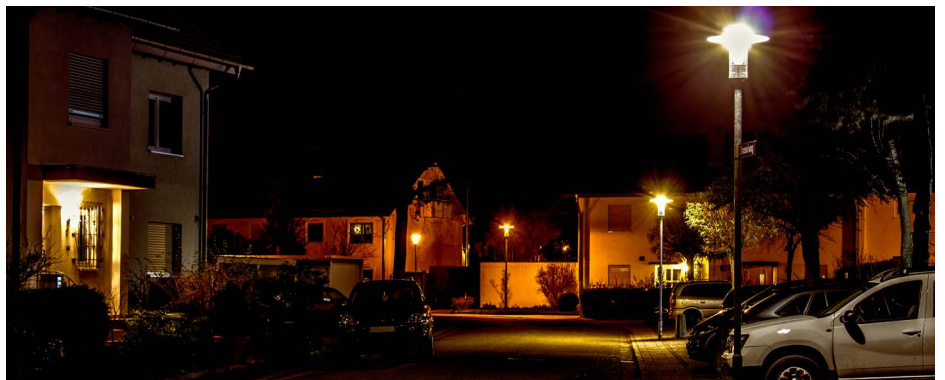


with frosted board cover



with frosted board cover and ring mirror

! 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	
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...
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

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packingmaterial)
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IP54  Wind load area A = 0,13m²

557... G2

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

55701 0001	557 0801 G2	9	1.430	159	5,9
55701 0002	557 0802 G2	13	2.000	154	5,9
55701 0003	557 0803 G2	18	2.690	149	5,9
55701 0004	557 1601 G2	17	2.850	168	6,0
55701 0005	557 1602 G2	25	3.950	158	6,0
55701 0006	557 1603 G2	35	5.280	151	6,0

colour temperature 3.000K (light colour 730)

55701 0013	557 0801 G2 730	9	1.360	151	5,9
55701 0014	557 0802 G2 730	13	1.900	146	5,9
55701 0015	557 0803 G2 730	18	2.560	142	5,9
55701 0016	557 1601 G2 730	17	2.710	159	6,0
55701 0017	557 1602 G2 730	25	3.750	150	6,0
55701 0018	557 1603 G2 730	35	5.020	143	6,0

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55701 0007	557 0801R G2	9	1.430	159	5,9
55701 0008	557 0802R G2	13	2.000	154	5,9
55701 0009	557 0803R G2	18	2.690	149	5,9
55701 0010	557 1601R G2	17	2.850	168	6,0
55701 0011	557 1602R G2	25	3.950	158	6,0
55701 0012	557 1603R G2	35	5.280	151	6,0

colour temperature 3.000K (light colour 730)

55701 0013	557 0801R G2 730	9	1.360	151	5,9
55701 0014	557 0802R G2 730	13	1.900	146	5,9
55701 0015	557 0803R G2 730	18	2.560	142	5,9
55701 0016	557 1601R G2 730	17	2.710	159	6,0
55701 0017	557 1602R G2 730	25	3.750	150	6,0
55701 0018	557 1603R G2 730	35	5.020	143	6,0

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



with ring mirror



with frosted board cover



with frosted board cover and ring mirror

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	
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 VS	backside light shielding for 557 08..
90113 0017	HA 16/L50 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

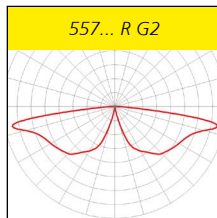
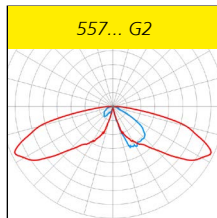
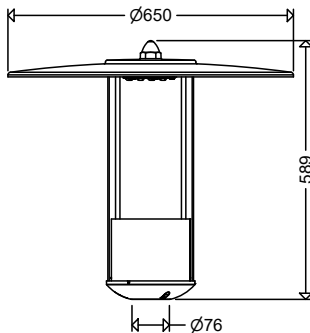
PLANEO

LED Pole-Top Light Fitting with variable setting of the luminous flux

Series 557... G2 VARIO



BLACK EDITION



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).

Switch for setting the luminous flux of the luminaire.

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. 15% lower luminous flux)

- 1,800K, light colour 518 „Amber“

(approx. 45% 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)

- with backside light shielding (HA)

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.

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

IP54

Wind load area A = 0,13m²

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.

asymmetrical wide beam

colour temperature 3.000K (light colour 730)

55702 0002	557 L25 G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	5,9
55702 0001	557 L50 G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	6,0

colour temperature 3.000K (light colour 730)

55702 0003	557 L25 G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	5,9
55702 0004	557 L50 G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	6,0

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55702 0005	557 L25R G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	5,9
55702 0006	557 L50R G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	6,0

colour temperature 3.000K (light colour 730)

55702 0007	557 L25R G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	5,9
55702 0008	557 L50R G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	6,0

Factory setting L25: 18 W; replaces approx. HME 80, HST 50

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

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

1) possible setting range

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

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

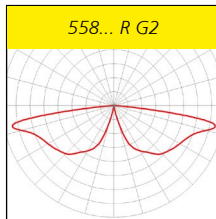
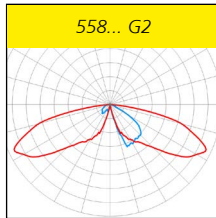
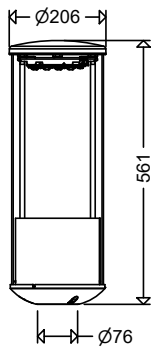


Accessories / Spare Parts

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...
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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% 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)

– with backside light shielding (HA)

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.

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

IP54  Wind load area A = 0,11m²

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

55801 0001	558 0801 G2	9	1.430	159	4,7
55801 0002	558 0802 G2	13	2.000	154	4,7
55801 0003	558 0803 G2	18	2.690	149	4,7
55801 0004	558 1601 G2	17	2.850	168	4,8
55801 0005	558 1602 G2	25	3.950	158	4,8
55801 0006	558 1603 G2	35	5.280	151	4,8

colour temperature 3.000K (light colour 730)

55801 0013	558 0801 G2 730	9	1.360	151	4,7
55801 0014	558 0802 G2 730	13	1.900	146	4,7
55801 0015	558 0803 G2 730	18	2.560	142	4,7
55801 0016	558 1601 G2 730	17	2.710	159	4,8
55801 0017	558 1602 G2 730	25	3.750	150	4,8
55801 0018	558 1603 G2 730	35	5.020	143	4,8

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55801 0007	558 0801R G2	9	1.430	159	4,7
55801 0008	558 0802R G2	13	2.000	154	4,7
55801 0009	558 0803R G2	18	2.690	149	4,7
55801 0010	558 1601R G2	17	2.850	168	4,8
55801 0011	558 1602R G2	25	3.950	158	4,8
55801 0012	558 1603R G2	35	5.280	151	4,8

colour temperature 3.000K (light colour 730)

55801 0019	558 0801R G2 730	9	1.360	151	4,7
55801 0020	558 0802R G2 730	13	1.900	146	4,7
55801 0021	558 0803R G2 730	18	2.560	142	4,7
55801 0022	558 1601R G2 730	17	2.710	159	4,8
55801 0023	558 1602R G2 730	25	3.750	150	4,8
55801 0024	558 1603R G2 730	35	5.020	143	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).



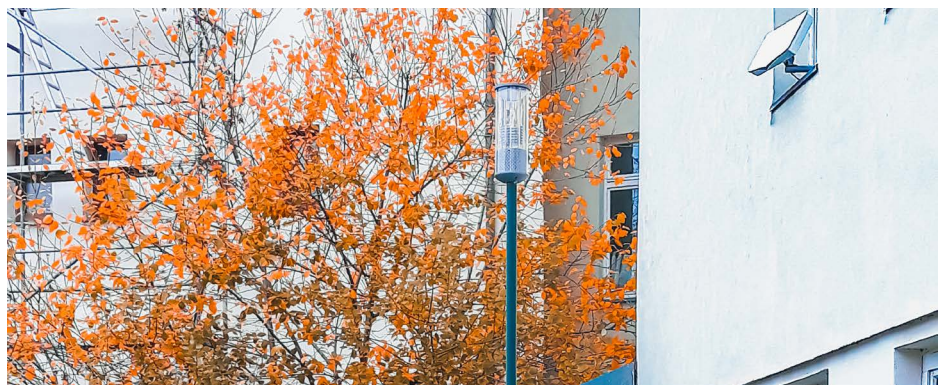
with ring mirror



with frosted board cover



with frosted board cover and ring mirror



Accessories / Spare Parts

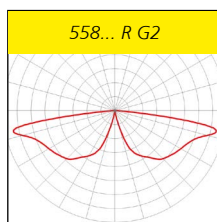
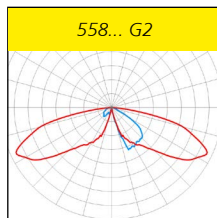
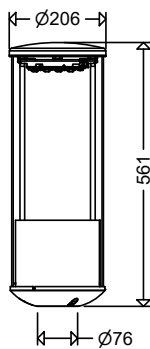
Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm

NEW**CILA****LED Pole-Top Light Fitting with variable setting of the luminous flux****Series 558... G2 VARIO****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, cylindricalElectrical 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).Switch for setting the luminous flux of the luminaire.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 compliantECG: 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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber”

(approx. 45% lower luminous flux)

– protection class I (SKI)

– optics for cycle track (RWX)

– for connection to group or central bat-

tery 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)

– with backside light shielding (HA)

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.

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

IP54

Wind load area A = 0,11m²

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.

asymmetrical wide beam

colour temperature 3.000K (light colour 730)

55802 0002	558 L25 G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	4,7
55802 0003	558 L50 G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	4,8

colour temperature 3.000K (light colour 730)

55802 0004	558 L25 G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	4,7
55802 0005	558 L50 G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	4,8

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55802 0006	558 L25R G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	4,7
55802 0007	558 L50R G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	4,8

colour temperature 3.000K (light colour 730)

55802 0008	558 L25R G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	4,7
55802 0009	558 L50R G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	4,8

Factory setting L25: 18 W; replaces approx. HME 80, HST 50

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

* 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).



with ring mirror



with frosted board cover



with frosted board cover and ring mirror

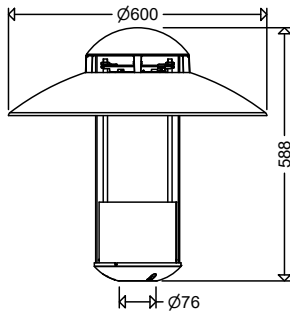


Accessories / Spare Parts

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...
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:

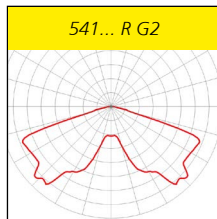
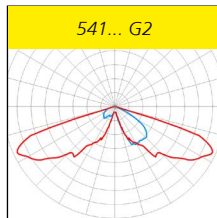
On request, the luminaires are also available with the following configurations:

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% 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)

– with backside light shielding (HA)



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.

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



asymmetrical wide beam

colour temperature 4.000K (light colour 740)

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

54100 0001	541 0801 G2	9	1.380	153	7,1
54100 0002	541 0802 G2	13	1.920	148	7,1
54100 0003	541 0803 G2	18	2.590	144	7,1
54100 0004	541 1601 G2	17	2.740	161	7,2
54100 0005	541 1602 G2	25	3.800	152	7,2
54100 0006	541 1603 G2	35	5.080	145	7,2

colour temperature 3.000K (light colour 730)

54100 0013	541 0801 G2 730	9	1.310	146	7,1
54100 0014	541 0802 G2 730	13	1.820	140	7,1
54100 0015	541 0803 G2 730	18	2.460	137	7,1
54100 0016	541 1601 G2 730	17	2.600	153	7,2
54100 0017	541 1602 G2 730	25	3.610	144	7,2
54100 0018	541 1603 G2 730	35	4.830	138	7,2

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54100 0007	541 0801R G2	9	1.380	153	7,1
54100 0008	541 0802R G2	13	1.920	148	7,1
54100 0009	541 0803R G2	18	2.590	144	7,1
54100 0010	541 1601R G2	17	2.740	161	7,2
54100 0011	541 1602R G2	25	3.800	152	7,2
54100 0012	541 1603R G2	35	5.080	145	7,2

colour temperature 3.000K (light colour 730)

54100 0013	541 0801R G2 730	9	1.310	146	7,1
54100 0014	541 0802R G2 730	13	1.820	140	7,1
54100 0015	541 0803R G2 730	18	2.460	137	7,1
54100 0016	541 1601R G2 730	17	2.600	153	7,2
54100 0017	541 1602R G2 730	25	3.610	144	7,2
54100 0018	541 1603R G2 730	35	4.830	138	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

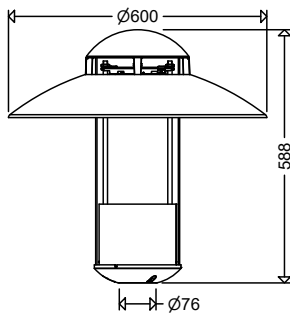
Article no.	Type	
10051 9000	ABD 541/55.	cover, cylinder PMMA clear, for 541, 553, 556, 557, 558...
10041 9001	ABDP 54./55. C	board cover, diffuser for glare limitation, diffuser PMMA satined, for 541, 543, 553, 556, 557, 558...
90116 9004	RS 54./55. G2	ring mirror, aluminium for series 541, 543, 553, 556, 557, 558... (Design element)
90126 0001	RZ 1 RAL9005	adapter for mast top Ø 60mm

NEW

CAPA

LED Pole-Top Light Fitting Light Fitting with variable setting of the luminous flux

Series 541... G2 VARIO



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).

Switch for setting the luminous flux of the luminaire.

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:

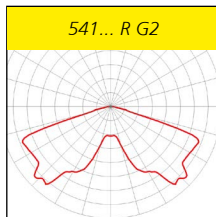
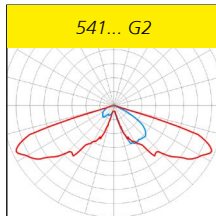
On request, the luminaires are also available with the following configurations:

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% lower luminous flux)

– protection class I (SKI)

– optics for cycle track (RWX)

– for connection to group or central bat-

tery 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)

– with backside light shielding (HA)



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.

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

asymmetrical wide beam

colour temperature 3.000K (light colour 730)

54101 0001	541 L25 G2 VARIO	5 - 18	630 - 2.590	153	HST 35 - HST 50	7,1
54101 0002	541 L50 G2 VARIO	9 - 35	1.270 - 5.080	162	HST 35 - 2 x HST 70	7,2

colour temperature 3.000K (light colour 730)

54101 0003	541 L25 G2 VARIO 730	5 - 18	600 - 2.460	146	HST 35 - HST 50	7,1
54101 0004	541 L50 G2 VARIO 730	9 - 35	1.210 - 4.830	154	HST 35 - 2 x HST 70	7,2

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54101 0005	541 L25R G2 VARIO	5 - 18	630 - 2.590	153	HST 35 - HST 50	7,1
54101 0006	541 L50R G2 VARIO	9 - 35	1.270 - 5.080	162	HST 35 - 2 x HST 70	7,2

colour temperature 3.000K (light colour 730)

54101 0007	541 L25R G2 VARIO 730	5 - 18	600 - 2.460	146	HST 35 - HST 50	7,1
54101 0008	541 L50R G2 VARIO 730	9 - 35	1.210 - 4.830	154	HST 35 - 2 x HST 70	7,2

Factory setting L25: 18 W; replaces approx. HME 80, HST 50

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

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

1) possible setting range

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

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

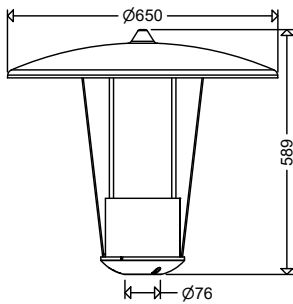


Accessories / Spare Parts

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...
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 $L_{90} > 100,000$ h, Zhaga compliant

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

Light control:

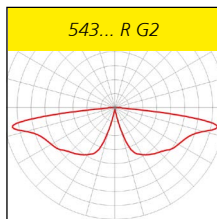
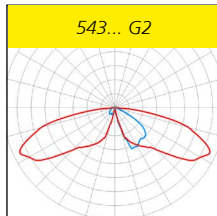
On request, the luminaires are also available with the following configurations:

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“ (approx. 45% 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)

– with backside light shielding (HA)



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.

Article No.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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IP54  Wind load area A = 0,15m²

543... G2

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

54300 0001	543 0801 G2	9	1.430	159	7,0
54300 0002	543 0802 G2	13	2.000	154	7,0
54300 0003	543 0803 G2	18	2.690	149	7,0
54300 0004	543 1601 G2	17	2.850	168	7,1
54300 0005	543 1602 G2	25	3.950	158	7,1
54300 0006	543 1603 G2	35	5.280	151	7,1

colour temperature 3.000K (light colour 730)

54300 0013	543 0801 G2 730	9	1.360	151	7,0
54300 0014	543 0802 G2 730	13	1.900	146	7,0
54300 0015	543 0803 G2 730	18	2.560	142	7,0
54300 0016	543 1601 G2 730	17	2.710	159	7,1
54300 0017	543 1602 G2 730	25	3.750	150	7,1
54300 0018	543 1603 G2 730	35	5.020	143	7,1

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54300 0007	543 0801R G2	9	1.430	159	7,0
54300 0008	543 0802R G2	13	2.000	154	7,0
54300 0009	543 0803R G2	18	2.690	149	7,0
54300 0010	543 1601R G2	17	2.850	168	7,1
54300 0011	543 1602R G2	25	3.950	158	7,1
54300 0012	543 1603R G2	35	5.280	151	7,1

colour temperature 3.000K (light colour 730)

54300 0019	543 0801R G2 730	9	1.360	151	7,0
54300 0020	543 0802R G2 730	13	1.900	146	7,0
54300 0021	543 0803R G2 730	18	2.560	142	7,0
54300 0022	543 1601R G2 730	17	2.710	159	7,1
54300 0023	543 1602R G2 730	25	3.750	150	7,1
54300 0024	543 1603R G2 730	35	5.020	143	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



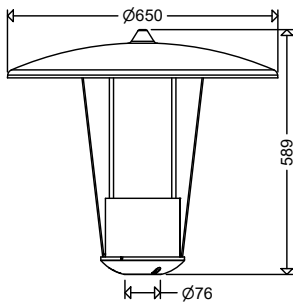
with frosted board cover and ring mirror

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...
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 LED Pole-Top Light Fitting with variable setting of the luminous flux Series 543... G2 VARIO



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

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 $L_{90} > 100,000$ h, Zhaga compliant

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

Light control:

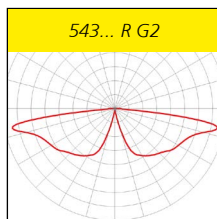
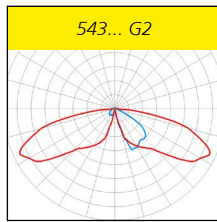
On request, the luminaires are also available with the following configurations:

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. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% 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)
- with backside light shielding (HA)



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.

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

asymmetrical wide beam

colour temperature 3.000K (light colour 730)

54301 0004	543 L25 G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	7,0
54301 0005	543 L50 G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	7,1

colour temperature 3.000K (light colour 730)

54301 0006	543 L25 G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	7,0
54301 0003	543 L50 G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	7,1

symmetrical circular beam

colour temperature 4.000K (light colour 740)

54301 0007	543 L25R G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	7,0
54301 0008	543 L50R G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	7,1

colour temperature 3.000K (light colour 730)

54301 0009	543 L25R G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	7,0
54301 0001	543 L50R G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	7,1

Factory setting L25: 18 W; replaces approx. HME 80, HST 50

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

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

1) possible setting range

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

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



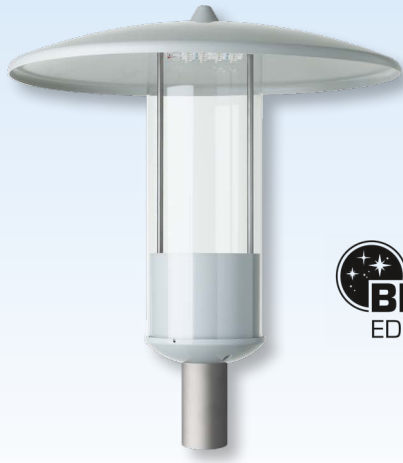
with frosted board cover and ring mirror

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...
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).

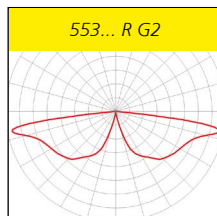
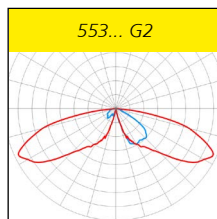
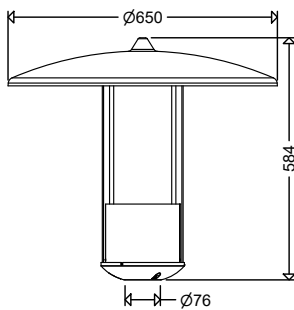
Supporting section: Aluminium powder coated light grey (RAL 7035).

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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“
(approx. 45% 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...)

– special painting in RAL colours (SL)

– with backside light shielding (HA)

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.

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 = 0,13m²

asymmetrical wide beam

colour temperature 4.000K (light colour 740)

55300 0001	553 0801 G2	9	1.430	144	7,0
55300 0002	553 0802 G2	13	2.000	135	7,0
55300 0003	553 0803 G2	18	2.690	132	7,0
55300 0004	553 1601 G2	17	2.850	156	7,1
55300 0005	553 1602 G2	25	3.950	142	7,1
55300 0006	553 1603 G2	35	5.280	135	7,1

colour temperature 3.000K (light colour 730)

55300 0013	553 0801 G2 730	9	1.360	136	7,0
55300 0014	553 0802 G2 730	13	1.900	127	7,0
55300 0015	553 0803 G2 730	18	2.560	124	7,0
55300 0016	553 1601 G2 730	17	2.710	148	7,1
55300 0017	553 1602 G2 730	25	3.750	134	7,1
55300 0018	553 1603 G2 730	35	5.020	127	7,1

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55300 0007	553 0801R G2	9	1.430	144	7,0
55300 0008	553 0802R G2	13	2.000	135	7,0
55300 0009	553 0803R G2	18	2.690	132	7,0
55300 0010	553 1601R G2	17	2.850	156	7,1
55300 0011	553 1602R G2	25	3.950	142	7,1
55300 0012	553 1603R G2	35	5.280	135	7,1

colour temperature 3.000K (light colour 730)

55300 0019	553 0801R G2 730	9	1.360	136	7,0
55300 0020	553 0802R G2 730	13	1.900	127	7,0
55300 0021	553 0803R G2 730	18	2.560	124	7,0
55300 0022	553 1601R G2 730	17	2.710	148	7,1
55300 0023	553 1602R G2 730	25	3.750	134	7,1
55300 0024	553 1603R G2 730	35	5.020	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

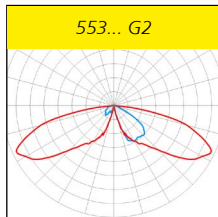
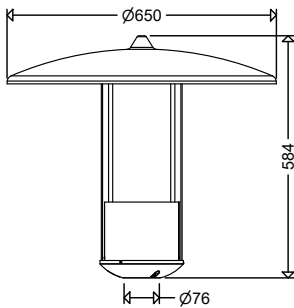
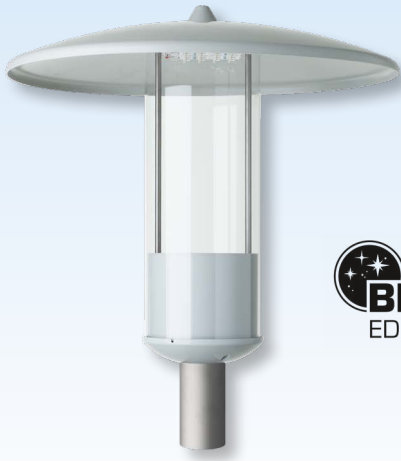


with frosted board cover
and ring mirror

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...
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

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

NEW**RETRO Z****LED Pole-Top Light Fitting with variable setting of the luminous flux****Series 553... G2 VARIO****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). **Switch** for setting the luminous flux of the luminaire.**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. 15% lower luminous flux)

– 1,800K, light colour 518 „Amber“

(approx. 45% 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...)

– special painting in RAL colours (SL)

– with backside light shielding (HA)

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.

Article No.	Type	Connected load [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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IP54  Wind load area A = 0,13m²

553... G2 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.

asymmetrical wide beam

colour temperature 3.000K (light colour 730)

55301 0001	553 L25 G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	7,0
55301 0002	553 L50 G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	7,1

colour temperature 3.000K (light colour 730)

55301 0003	553 L25 G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	7,0
55301 0004	553 L50 G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	7,1

symmetrical circular beam

colour temperature 4.000K (light colour 740)

55301 0005	553 L25R G2 VARIO	5 - 18	660 - 2.690	144	HST 35 - HST 50	7,0
55301 0006	553 L50R G2 VARIO	9 - 35	1.320 - 5.280	156	HST 35 - 2 x HST 70	7,1

colour temperature 3.000K (light colour 730)

55301 0007	553 L25R G2 VARIO 730	5 - 18	630 - 2.560	136	HST 35 - HST 50	7,0
55301 0008	553 L50R G2 VARIO 730	9 - 35	1.250 - 5.020	147	HST 35 - 2 x HST 70	7,1

Factory setting L25: 18 W; replaces approx. HME 80, HST 50

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

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

1) possible setting range

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

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...
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 or symmetrical circular beam (R).

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.

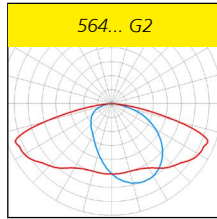
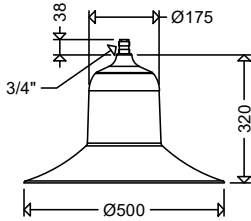
Digital dimming with DALI interface (DIMD)

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

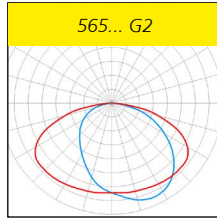
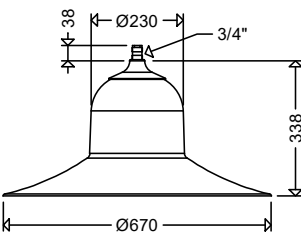
Options:

- 2,200K, light colour 722 (approx. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% 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
- additional overvoltage protection (OP) in SKI
- inrush current limiter (ESSB)
- seawater-resistant version (SWP)
- special painting in RAL colours (SL)
- with backside light shielding (HA)

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.



Outdoor
Light Fittings

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



All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

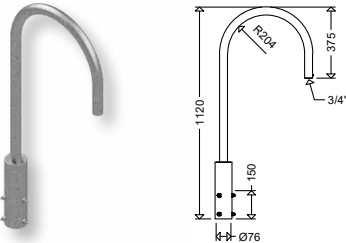
colour temperature 4.000K (light colour 740)

56400 0001	564 0801 G2	9	1.510	168	2,8
56400 0002	564 0802 G2	13	2.100	162	2,8
56400 0003	564 0803 G2	18	2.840	158	2,8
56400 0007	564 0801R G2	9	1.510	168	2,8
56400 0008	564 0802R G2	13	2.100	162	2,8
56400 0009	564 0803R G2	18	2.840	158	2,8
56400 0004	564 1601 G2	17	3.000	176	2,8
56400 0005	564 1602 G2	25	4.170	167	2,8
56400 0006	564 1603 G2	35	5.580	159	2,8
56400 0010	564 1601R G2	17	3.000	176	2,8
56400 0011	564 1602R G2	25	4.170	167	2,8
56400 0012	564 1603R G2	35	5.580	159	2,8

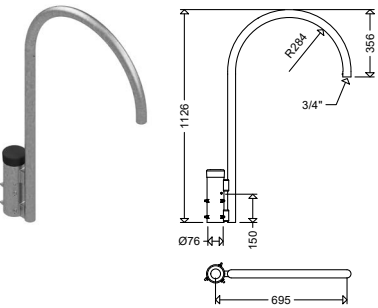
colour temperature 3.000K (light colour 730)

56400 0013	564 0801 G2 730	9	1.430	159	2,8
56400 0014	564 0802 G2 730	13	2.000	154	2,8
56400 0015	564 0803 G2 730	18	2.700	150	2,8
56400 0019	564 0801R G2 730	9	1.430	159	2,8
56400 0020	564 0802R G2 730	13	2.000	154	2,8
56400 0021	564 0803R G2 730	18	2.700	150	2,8
56400 0016	564 1601 G2 730	17	2.850	168	2,8
56400 0017	564 1602 G2 730	25	3.960	158	2,8
56400 0018	564 1603 G2 730	35	5.300	151	2,8
56400 0022	564 1601R G2 730	17	2.850	168	2,8
56400 0023	564 1602R G2 730	25	3.960	158	2,8
56400 0024	564 1603R G2 730	35	5.300	151	2,8

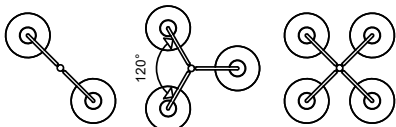
Round arch pole-top adapter for pendant lights with upper thread 3/4"



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).

565... G2



colour temperature 4.000K (light colour 740)

56500 0001	565 1601 G2	17	2.960	174	4,4
56500 0002	565 1602 G2	25	4.130	165	4,4
56500 0003	565 1603 G2	35	5.580	159	4,4
56500 0007	565 1601R G2	17	2.960	174	4,4
56500 0008	565 1602R G2	25	4.130	165	4,4
56500 0009	565 1603R G2	35	5.580	159	4,4
56500 0004	565 3201 G2	34	5.990	176	4,5
56500 0005	565 3202 G2	50	8.300	166	4,5
56500 0006	565 3203 G2	70	11.150	159	4,5
56500 0010	565 3201R G2	34	5.990	176	4,5
56500 0011	565 3202R G2	50	8.300	166	4,5
56500 0012	565 3203R G2	70	11.150	159	4,5

colour temperature 3.000K (light colour 730)

56500 0013	565 1601 G2 730	17	2.810	165	4,4
56500 0014	565 1602 G2 730	25	3.920	157	4,4
56500 0015	565 1603 G2 730	35	5.300	151	4,4
56500 0019	565 1601R G2 730	17	2.810	165	4,4
56500 0020	565 1602R G2 730	25	3.920	157	4,4
56500 0021	565 1603R G2 730	35	5.300	151	4,4
56500 0016	565 3201 G2 730	34	5.690	167	4,5
56500 0017	565 3202 G2 730	50	7.890	158	4,5
56500 0018	565 3203 G2 730	70	10.590	151	4,5
56500 0022	565 3201R G2 730	34	5.690	167	4,5
56500 0023	565 3202R G2 730	50	7.890	158	4,5
56500 0024	565 3203R G2 730	70	10.590	151	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).

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

NEW**BELLA****Pendant LED Light Fittings with variable setting of the luminous flux****Series 564/565... G2 VARIO****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 or symmetrical circular beam (R).

Switch for setting the luminous flux of the luminaire.

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.

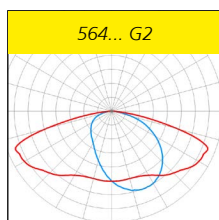
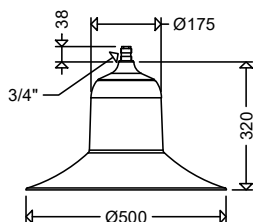
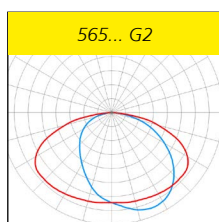
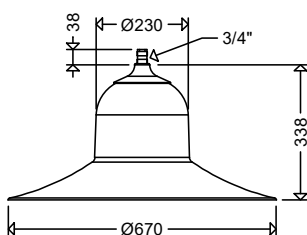
Output reduction without control phase (LA): Autarkic dimming. Reduced operation 50% between 22:00 and 4:00h CET or 23:00 and 5:00h CEST, also available with deviating times and with alternative dimming steps.

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 networks respectively
- (approx. 15% lower luminous flux) - additional overvoltage protection (OP) in SKI
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- protection class I (SKI)
- inrush current limiter (ESSB)
- optics for cycle track (RWX)
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting
- special painting in RAL colours (SL)
- with backside light shielding (HA)

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.



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

56401 0001	564 L25 G2 VARIO	5 - 18	690 - 2.840	168	HST 35 - HST 50	2,8
56401 0003	564 L25R G2 VARIO	5 - 18	690 - 2.840	168	HST 35 - HST 50	2,8
56401 0002	564 L50 G2 VARIO	9 - 35	1.390 - 5.580	178	HST 35 - 2 x HST 70	2,8
56401 0004	564 L50R G2 VARIO	9 - 35	1.390 - 5.580	178	HST 35 - 2 x HST 70	2,8

colour temperature 3.000K (light colour 730)

56401 0005	564 L25 G2 VARIO 730	5 - 18	660 - 2.700	159	HST 35 - HST 50	2,8
56401 0007	564 L25R G2 VARIO 730	5 - 18	660 - 2.700	159	HST 35 - HST 50	2,8
56401 0006	564 L50 G2 VARIO 730	9 - 35	1.320 - 5.300	169	HST 35 - 2 x HST 70	2,8
56401 0008	564 L50R G2 VARIO 730	9 - 35	1.320 - 5.300	169	HST 35 - 2 x HST 70	2,8



565... VARIO G2

colour temperature 4.000K (light colour 740)

56501 0001	565 L50 G2 VARIO	9 - 35	1.360 - 5.580	176	HST 35 - 2 x HST 70	4,4
56501 0003	565 L50R G2 VARIO	9 - 35	1.360 - 5.580	176	HST 35 - 2 x HST 70	4,4
56501 0002	565 L100 G2 VARIO	16 - 70	2.760 - 11.150	178	HST 50 - HSE 150	4,5
56501 0004	565 L100R G2 VARIO	16 - 70	2.760 - 11.150	178	HST 50 - HSE 150	4,5

colour temperature 3.000K (light colour 730)

56501 0005	565 L50 G2 VARIO 730	9 - 35	1.290 - 5.300	167	HST 35 - 2 x HST 70	4,4
56501 0007	565 L50R G2 VARIO 730	9 - 35	1.290 - 5.300	167	HST 35 - 2 x HST 70	4,4
56501 0006	565 L100 G2 VARIO 730	16 - 70	2.620 - 10.590	169	HST 50 - HSE 150	4,5
56501 0008	565 L100R G2 VARIO 730	16 - 70	2.620 - 10.590	169	HST 50 - HSE 150	4,5

Factory setting L25: 18 W; replaces approx. HST 50

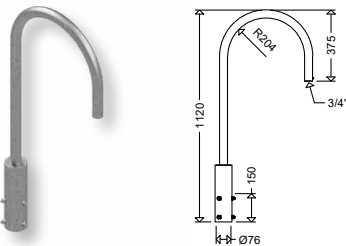
Factory setting L100: 54 W; replaces approx. HME 250

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

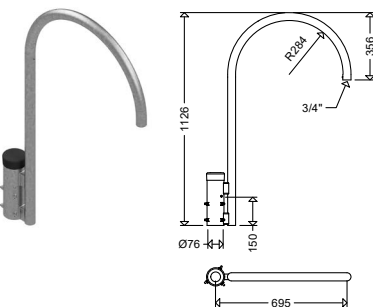
* The given information is for rough orientation only. In each individual case a lighting calculation is necessary.

1) possible setting range

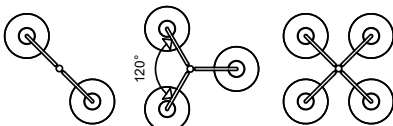
Round arch pole-top adapter for pendant lights with upper thread 3/4"



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).

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	
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

NEW

FOCO L LED Floodlight / Plane Surface Floodlight with variable setting of the luminous flux Series 7700... VARIO



Applications:

Industrial areas, stockyards, terminals, construction zone, accent lighting, illumination of building and facades etc.

Design:

Housing: Die-cast aluminium, 2-parts, powder coated DB 702 (mica-iron paint, grey).

Upper part: With LED- and optics-modules

Lower part: With electronic ballast, glass cover, cable entry with cable relief and pressure compensation system, retractable.

Glass: Flat safety glass pane, resistant to temperature changes, impact resistant

IK10, silicone gasket.

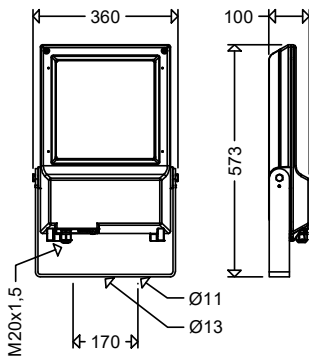
Switch for setting the luminous flux of the luminaire.

Light distribution: With optics narrow-wide (TB), narrow (T) or asymmetrical beam (A), without optics wide beam.

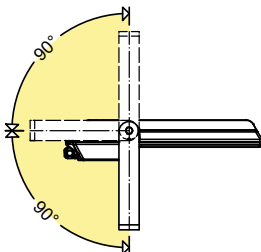
Connection: 3-pole terminal, max. clamping range 2,5 mm².

Cable entry: 1 cable entry M20 x 1.5 (1 cable gland).

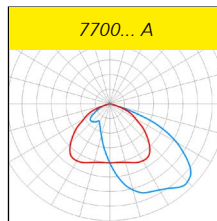
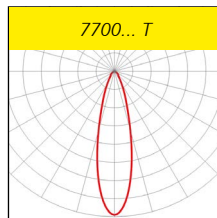
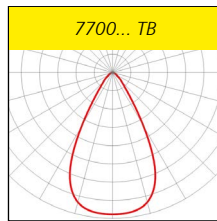
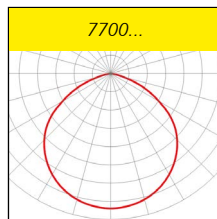
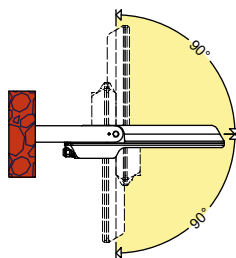
Mounting: Mounting bracket, swivel range 180°, with 3 drillings for wall- or ceiling mounting or for direct pole mounting in conjunction with pipe clamps ROB 60/76 G2 (see accessories).



Swivel range



Standard Mounting



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.

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

Options:

- 2,200K, light colour 722

(approx. 15% lower luminous flux)

- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)

- adaptive Light EcoTune (ET)

- protection class II (SKII)

- asymmetrical wide beam (AB-optics)

- low glare optics (ABL)

- extremely narrow beam (TX)

- high protection (HR) against corrosive atmospheres or harmful gases

- seawater-resistant version (SWP)

- for connection to group or central battery systems (ZB) or emergency lighting networks respectively

- additional overvoltage protection (OP) in SKI

- inrush current limiter (ESSB)

- extended Swivel range (ESB)

- cable looping at 1 small side (RR)

- vibration-resistant design (RF)

- special painting in RAL colours (SL)

Product highlights:

- 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
- optimized thermal management due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- optimal light distribution due to highly efficient 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.
- comfortable maintenance due to removable lower part of the housing, large opening allows easy access to the terminal box and the electrical components, ECG replaceable on-site
- eco-friendly, no light emission into the upper half-space, ULOR=0 (Plane Surface Floodlight)
- 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.

Article no.	Type	Power/ consumption [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [ca. kg] (without packaging)
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7700 ... 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.

Floodlight / Plane Surface Floodlight

colour temperature 4.000K (light colour 740)

77001 0001	7700 L100 VARIO	16 - 70	2.760 - 11.360	179	HST 50 - HSE 150	9,5
77001 0003	7700 L100TB VARIO					
77001 0004	7700 L100T VARIO					
77001 0002	7700 L100A VARIO					
77001 0009	7700 L150 VARIO	24 - 106	4.120 - 1.6790	173	2 x HME 80 - 2 x HME 250	9,7
77001 0011	7700 L150TB VARIO					
77001 0012	7700 L150T VARIO					
77001 0010	7700 L150A VARIO					
77001 0017	7700 L210 VARIO	32 - 140	5.400 - 21.940	169	2 x HST 70 - HME 400	9,7
77001 0019	7700 L210TB VARIO					
77001 0020	7700 L210T VARIO					
77001 0018	7700 L210A VARIO					

colour temperature 3.000K (light colour 730)

77001 0005	7700 L100 VARIO 730	16 - 70	2.620 - 10.790	171	HST 50 - HSE 150	9,5
77001 0007	7700 L100TB VARIO 730					
77001 0008	7700 L100T VARIO 730					
77001 0006	7700 L100A VARIO 730	24 - 106	3.910 - 15.950	164	2 x HME 80 - 2 x HME 250	9,7
77001 0013	7700 L150 VARIO 730					
77001 0015	7700 L150TB VARIO 730					
77001 0016	7700 L150T VARIO 730					
77001 0014	7700 L150A VARIO 730	32 - 140	5.130 - 20.840	160	2 x HST 70 - HME 400	9,7
77001 0021	7700 L210 VARIO 730					
77001 0023	7700 L210TB VARIO 730					
77001 0024	7700 L210T VARIO 730					
77001 0022	7700 L210A VARIO 730					

Factory setting L100: 54 W; replaces approx. ca. HME 25

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

Factory setting L210: 54 W; replaces approx. HME 400

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

1) possible setting range

All light fittings also available with connected cable (H07RN-F or NYM) in the required length.



All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

Also available with output reduction (LR / LA) and constant luminous flux function (CL) or combinations of the functions (CL LR / CL LA)



Accessories / Spare Parts

Article no.	Type	
78001 9002	ABD 7700	cover, pane safety glas clear, for 7700...
75739 9010	7700/7800/1 M	pole top for single mounting; galvanised steel
75739 9011	7700/7800/2 M	pole top for dual mounting; galvanised steel
90270 0006	ROB 60/76 G2	pipe clamp for direct pole mounting or on multiple post top adapters; galvanised steel
90120 9011	2530	plastic cable gland M20 x 1,5 black
75350 0034	SD 7700 ST	vibration absorbing suspension device for series 7700, galvanised steel

All pole top brackets made of galvanised steel. Painting in any RAL colour for additional charge.

NEW

FOCO XL LED Floodlight / Plane Surface Floodlight with variable setting of the luminous flux Series 7800... VARIO



Applications:

Industrial areas, large equipment for open-cast mining, stockyards, installation areas, object protection and fence lighting, construction zone, illumination of building and facades etc.

Design:

Housing: Die-cast aluminium, 2-parts, powder coated DB 702 (mica-iron paint, grey).

Upper part: With LED- and optics-modules

Lower part: With electronic ballast, glass cover, cable entry with cable relief and pressure compensation system, retractable.

Glass: Flat safety glass pane, resistant to

temperature changes, impact resistant IK09, silicone gasket.

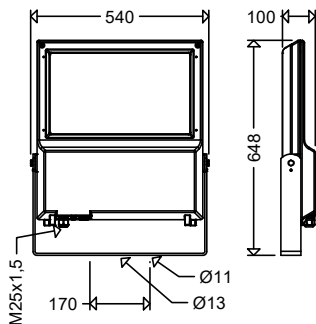
Switch for setting the luminous flux in the terminal compartment, accessible from the outside.

Light distribution: With optics narrow-wide (TB), narrow (T) or asymmetrical beam (A), without optics wide beam.

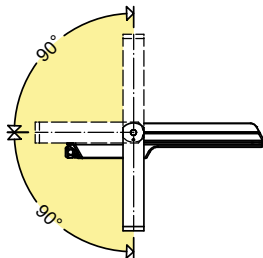
Connection: 3-pole terminal, max. clamping range 2,5 mm².

Cable entry: 1 cable entry M25 x 1.5 (1 cable gland).

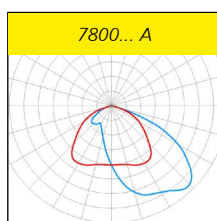
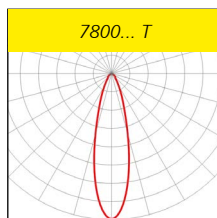
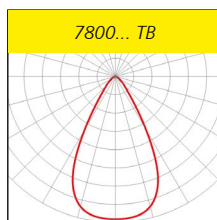
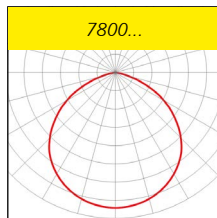
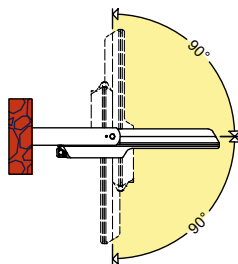
Mounting: Mounting bracket, swivel range 180°, with 3 drillings for wall- or ceiling mounting or for direct pole mounting in conjunction with pipe clamps **ROB 60/76 G2** (see accessories).



Swivel range



Standard Mounting



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.

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

Options:

- 2,200K, light colour 722 (approx. 15% lower luminous flux)
- 1,800K, light colour 518 „Amber“ (approx. 45% lower luminous flux)
- adaptive Light EcoTune (ET)
- protection class II (SKII)
- asymmetrical wide beam (AB-optics)
- low glare optics (ABL)
- extremely narrow beam (TX)
- high protection (HR) against corrosive atmospheres or harmful gases
- seawater-resistant version (SWP)
- for connection to group or central battery systems (ZB) or emergency lighting networks respectively
- additional overvoltage protection (OP) in SKI
- inrush current limiter (ESSB)
- extended Swivel range (ESB)
- cable looping at 1 small side (RR)
- vibration-resistant design (RF)
- special painting in RAL colours (SL)

Product highlights:

- ECG with surge voltage resistance, reliable due to overload and short circuit protection
- optimized thermal management due to direct adaption of the LED-modules to the die-cast aluminium housing, large cooling surface, excellent heat dissipation
- optimal light distribution due to highly efficient 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.
- high flexibility by nearly continuous adjustment of the luminous flux
- eco-friendly, no light emission into the upper half-space, ULOR=0 (Plane surface floodlight)
- 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.

Article no.	Type	Power/ consumption [W]	Luminous flux [lm] ¹⁾	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [ca. kg] (without packaging)
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7800 ... 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.

Floodlight / Plane Surface Floodlight

colour temperature 4.000K (light colour 740)

78003 0001	7800 L210 VARIO	32 - 140	5.550 - 22.650	173	2 x HST 70 - HME 400	15,9
78003 0003	7800 L210TB VARIO					
78003 0004	7800 L210T VARIO					
78003 0002	7800 L210A VARIO					

78003 0009	7800 L420 VARIO	64 - 280	10.860 - 43.920	170	HSE 150 - 2 x HIE 400	17
78003 0011	7800 L420TB VARIO					
78003 0012	7800 L420T VARIO					
78003 0010	7800 L420A VARIO					

colour temperature 3.000K (light colour 730)

78003 0005	7800 L210 VARIO 730	32 - 140	5.270 - 21.520	165	2 x HST 70 - HME 400	15,9
78003 0007	7800 L210TB VARIO 730					
78003 0008	7800 L210T VARIO 730					
78003 0006	7800 L210A VARIO 730					

78003 0013	7800 L420 VARIO 730	64 - 280	10.320 - 41.720	161	HSE 150 - 2 x HIE 400	17
78003 0015	7800 L420TB VARIO 730					
78003 0016	7800 L420T VARIO 730					
78003 0014	7800 L420A VARIO 730					

Factory setting L210: 140 W; replaces approx. HME 400

Factory setting L420: 280 W; replaces approx. 2 x HIE 400

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

1) possible setting range

! All light fittings also available with connected cable (H07RN-F or NYM) in the required length.

NFC All luminaires also available with luminous flux adjustment via smartphone app (NFC version).

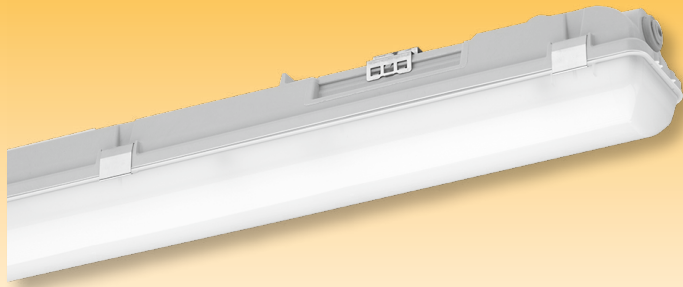
! Also available with output reduction (LR / LA) and constant luminous flux function (CL) or combinations of the functions (CL LR / CL LA)



Accessories / Spare Parts

Article no.	Type	
78001 9001	ABD 7800	cover, pane safety glas clear, for 7800...
75739 9010	7700/7800/1 M	pole top for single mounting; galvanised steel
75739 9011	7700/7800/2 M	pole top for dual mounting; galvanised steel
90270 0006	ROB 60/76 G2	pipe clamp for direct pole mounting or on multiple post top adapters; galvanised steel
90117 9000	2537	plastic cable gland M25 x 1,5 black
75350 0033	SD 7800 ST	vibration absorbing suspension device for series 7800, galvanised steel

All pole top brackets made of galvanised steel. Painting in any RAL colour for additional charge.



LUXANO 2

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

Applications:

Humid, wet, dusty rooms in workshops, industries, car parks etc. for lighting escape route.

Design:

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

Diffuser: PMMA frosted for glare

limitation, additional clear cover at the LED-modules to ensure contact protection against contact (Types ... MA).

Closures: stainless steel, in order to

ensure the contact protection. The light fitting can be opened with a tool only.

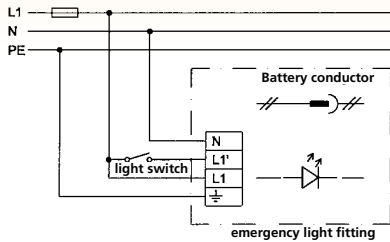
Reflector: Aluminium, painted, detachable carrying the electrical components.

Connection: 3/4-pole terminal.

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

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

Wiring diagram maintained/stand by operation



Installation: connect battery conductor
Decommission: disconnect battery conductor
Stand-by operation: do not connect L1'

Technical data:

LED: Linear modules 4.000K, $R_a > 80$, service life $L_{80} > 50.000h$ at max. ambient temperature

Self contained NiMH 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 according to EN 62034. Indication of the test results by 2-coloured LED (luminescence diode) at the luminaire.

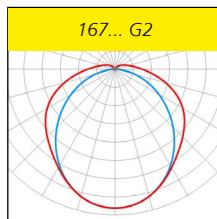
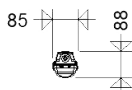
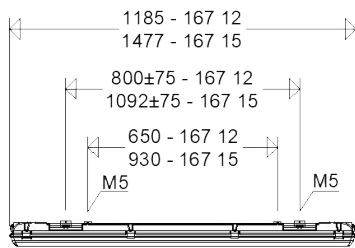
Mode of operation:

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

Stand-by operation: Emergency light switches on in the event of a power failure.

Connection voltage: 220-240V 50/60Hz

Ambient temperature: 0°C up to +30°C



Options:

– according to „International Featured Standard Food“ (IFS)

– 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 or Line ESC (MA-Z) Light Management System

– through-wiring

4-conductor: L1, L1', N, PE or

6-conductor: L1, L1', L2', L3', N, PE

For versions with central battery system:

– with quick connector Fast Connect (FC)

– with with reduced luminous flux in DC mode (e. g. 15%, 50% etc.)

– with separate module for monitoring individual light fittings

Product highlights:

- always ready for operation due to permanent trickle charging of the battery (MA-versions)
- safety in an emergency, immediate light with maximum luminous flux even at low temperatures (MA versions)
- 100 % light output even in emergency mode (ZB-versions)
- homogeneous illumination by using frosted diffusers, no individual light spots visible, comfortable perception of light and excellent glare limitation
- high colour reproduction $R_a > 80$, according to the workplace guide lines suitable for nearly all plant locations
- reliable protection against contact due to additional clear cover (MA-versions)
- Closures made of stainless steel
- variable cable entries, closed knock-outs on the short and long sides, and on the back
- 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

Product highlights of the VARIO version:

- 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)

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.

Article no.	Type	Quantity of ECG	Connected load [W] (incl. battery charge)	Luminous flux [lm] ¹⁾	Luminous flux [lm] (emergency operation)	Luminous efficacy [lm/W]	Operating hours 1h	Operating hours 3h	Substitute for *	Weight [kg] (without packing material)
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167 ..G2/. MA



with self-contained battery and automatic self-monitoring

16703 0021	167 15L34G2/1 MA	1	29	3.710	810	128	•	1 x 58W	2,5
16703 0022	167 12L42G2/1 MA	1	32	4.250	810	133	•	2 x 36W	2,2
16703 0023	167 15L60G2/1 MA	1	44	6.000	810	136	•	2 x 58W	2,7
16703 0024	167 15L34G2/3 MA	1	29	3.710	810	128		1 x 58W	2,8
16703 0025	167 15L60G2/3 MA	1	44	6.000	810	136		2 x 58W	2,8

NEW

167 ..G2 VARIO ZB



for central battery systems - with variable setting of the luminous flux

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.

Design:

As standard version 167... G2, but with DIP switch for

setting the luminous flux without tools. 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.

Mounting system: 2 reinforced retaining clips made of stainless steel, 2 bracket for chain suspension (included).

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 to +35°C

Notes:

In case of horizontal installation, the light fitting must be directly fixed with screws (washer and pressure disk are included) or it must be mounted with a reinforced retaining clips (see accessories)!

16703 0120	167 12LG2 VARIO ZB	1	18	2.700	2.700	150		> 1 x 36W	1,7
			21	3.100	3.100	148		< 1 x 58W	
			26	3.800	3.800	146		> 1 x 58W	
			30	4.300 ²⁾	4.300	143		2 x 36W	
16703 0121	167 15LG2 VARIO ZB	1	25	3.800	3.800	152		> 1 x 58W	1,9
			29	4.400	4.400	152		2 x 36W	
			36	5.400	5.400	150		< 2 x 58W	
			43	6.200 ²⁾	6.200	144		2 x 58W	

1) possible setting range
2) Factory setting

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

Accessories / Spare Parts

Article no.	Type	
spare glasses, PMMA, frosted		
16711 9003	ABD 167 12 G2	PMMA for 167 12L.. G2
16711 9004	ABD 167 15 G2	PMMA for 167 15L.. G2
Fasteners		
90123 9008	167G2 KE V10	stainless steel (packing unit 10)
Cable entries		
90063 9000	2511	blanking plug M20
Accessories		
90049 0004	167 VBC P	retaining clips, reinforced for horizontal wall mount (1 pair)

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



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