



## VIA LED Outdoor Light Fitting Series 51... / 52...

### Applications:

Residential streets, by-roads, traffic-calmed zones, parks, walkways and cycle tracks, pedestrian zones, parks, green spaces, gateways, main streets, roundabouts, factory streets in industrial plants, car parks etc.

### Design:

**Housing:** Die-cast aluminium, powder coated in DB 702 (mica-iron paint, grey) hinged with lockable safety clip. LED module and ECG mounted on support plates in upper part of housing, exchangeable without tools, disconnectable with 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  $\varnothing$  60/76 mm for pole-top or pole-mounted installation, pre-assembled for pole-top installation with 0° inclination. Separate reducing accessories are required for mast top  $\varnothing$  42 mm.

**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:

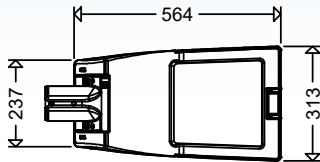
**LED module:** 4,000 K or 3,000 K,  $R_a > 70$ , service life  $L_{90} > 100,000$  h, Zhaga compliant

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

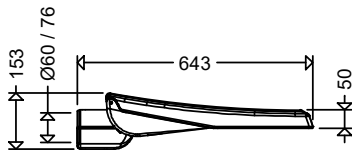
### Options:

- 2,200 K; light colour (722)
- 1,800 K; light colour (518)
- asymmetrical beam (A), plane surface floodlight-optics
- asymmetrical extremely wide beam (RWX), for illuminating cycle paths
- asymmetrical wide beam (ABL)
- special painting in RAL colours
- protection class I (SKI)
- seawater-resistant version
- bird deterrence
- for connection to a central power supply system (ZB)
- dimming function via DALI2 interface, compatible with LIMAS Line wired Light Management System (DIMD)
- power reduction with control phase (LR)
- power reduction without control phase (LA)
- constant luminous flux function (CL)
- adaptive Light EcoTune
- additional overvoltage protection
- inrush current limiter
- with backside light shielding (HA)

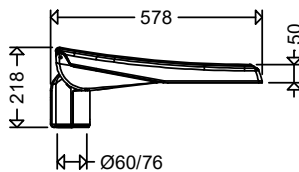
51...



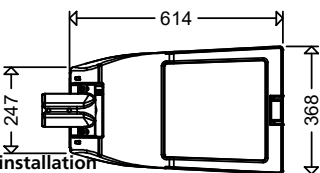
Pole-top installation



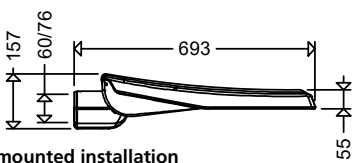
Pole-mounted installation



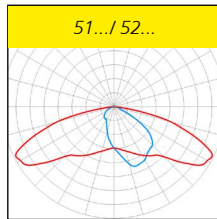
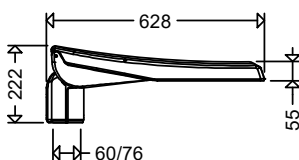
52...



Pole-top installation



Pole-mounted installation



### Product highlights:

- durable, corrosion-resistant die-cast aluminium housing with flat surface without cooling fins
- excellent thermal management, long service life
- integrated pressure equalisation system prevents condensation in the interior
- can be opened without tools (central locking)
- pre-assembled universal pole attachment for pole top  $\varnothing$  60/76 mm for pole attachment or pole top mounting
- tool-free replacement of ECG and LED module
- homogeneous illumination due to the Multi-Layer-Technology
- eco-friendly, no light emission into the upper half-space, ULOR=0
- all versions dimmable to 10 % with color temperature up to max. 3,000 K fulfill the Dark Sky requirements
- future proof by using standardized LED-modules (Zhaga) and long-term availability of spare parts
- GreenLine luminaire, outstanding sustainable design

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

■ See "Technical Supplement"

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

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... / 52...



### 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	6.200	168	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
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
52000 0004	52 4801	52	9.060	174	10,7
52000 0005	52 4802	75	12.550	167	10,7
52000 0006	52 4803	106	16.730	158	10,7
52000 0007	52 6401	69	11.930	173	10,8
52000 0008	52 6402	99	16.490	167	10,8
52000 0009	52 6403	140	21.980	157	10,8
52000 0010	52 8001	86	14.530	169	11,0
52000 0011	52 8002	124	20.000	161	11,0
52000 0012	52 8003	175	26.520	152	11,0

### 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
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
52000 0016	52 4801 730	52	8.610	166	10,7
52000 0017	52 4802 730	75	11.920	159	10,7
52000 0018	52 4803 730	106	15.890	150	10,7
52000 0019	52 6401 730	69	11.330	164	10,8
52000 0020	52 6402 730	99	15.670	158	10,8
52000 0021	52 6403 730	140	20.880	149	10,8
52000 0022	52 8001 730	86	13.800	160	11,0
52000 0023	52 8002 730	124	19.000	153	11,0
52000 0024	52 8003 730	175	25.190	144	11,0

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] <sup>1)</sup>	Luminous efficacy [lm/W] (up to)	Substitute for ca. *	Weight [kg] (without packing material)
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## 51... / 52... VARIO



### Design:

Same as type 51... / 52... but: With a switch for for variable adjustment of the luminous flux in the luminaire. The connected load will change depending on the setting of the luminous flux.

### Product highlights of the VARIO version:

- simple, fast, tool-free setting of the luminous flux on site, by means of integrated switch, can be changed at any time
- reduction in the variety of types



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

51001 0001	<b>51 L50 VARIO</b>	9 - 35	1.330 - 5.480	172	HST 35 - 2 x HST 70	8,5
51001 0002	<b>51 L100 VARIO</b>	16 - 70	2.720 - 10.950	175	HST 50 - HSE 150	8,6
51001 0003	<b>51 L150 VARIO</b>	24 - 106	4.050 - 16.270	169	2 x HME 80 - 2 x HME 250	8,6

52001 0002	<b>52 L150 VARIO</b>	24 - 106	4.190 - 16.730	175	2 x HME 80 - 2 x HME 250	10,7
52001 0003	<b>52 L210 VARIO</b>	32 - 140	5.520 - 21.980	173	2 x HST 70 - HME 400	10,8
52001 0004	<b>52 L250 VARIO</b>	37 - 175	6.750 - 26.520	182	2 x HST 70 - HST 250	11,0

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

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

52001 0006	<b>52 L150 VARIO 730</b>	24 - 106	3.980 - 15.890	166	2 x HME 80 - 2 x HME 250	10,7
52001 0007	<b>52 L210 VARIO 730</b>	32 - 140	5.240 - 20.880	164	2 x HST 70 - HME 400	10,8
52001 0008	<b>52 L250 VARIO 730</b>	37 - 175	6.410 - 25.190	173	2 x HST 70 - HST 250	11,0

## 51... / 52... NFC



### Design:

Same as type 51... / 52... but: Setting the luminous flux via Smartphone-App (see technical Supplement). Link to the App: Adjustments via Smartphone-App (see technical Supplement). Link to the App: See instruction label on the light fitting. The connected load will change depending on the setting of the luminous flux.

### Product highlights of the NFC version:

- simple, fast, tool-free adjustment of the luminous flux on site via app (iOS or Android), subsequently changeable at any time.
- Luminaire can be parameterized voltage-free before mounting
- reduction in the variety of types



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

51002 0001	<b>51 L50 NFC</b>	9 - 35	1.330 - 5.480	172	HST 35 - 2 x HST 70	8,5
51002 0002	<b>51 L100 NFC</b>	16 - 70	2.720 - 10.950	175	HST 50 - HSE 150	8,6
51002 0007	<b>51 L150 NFC</b>	24 - 106	4.050 - 16.270	169	2 x HME 80 - 2 x HME 250	8,6

52002 0002	<b>52 L150 NFC</b>	24 - 106	4.190 - 16.730	175	2 x HME 80 - 2 x HME 250	10,2
52002 0003	<b>52 L210 NFC</b>	32 - 140	5.520 - 21.980	173	2 x HST 70 - HME 400	10,3
52002 0008	<b>52 L250 NFC</b>	37 - 175	6.750 - 26.520	182	2 x HST 70 - HST 250	11,0

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

51002 0003	<b>51 L50 NFC 730</b>	9 - 35	1.260 - 5.210	163	HST 35 - 2 x HST 70	8,5
51002 0004	<b>51 L100 NFC 730</b>	16 - 70	2.580 - 10.400	167	HST 50 - HSE 150	8,6
51002 0008	<b>51 L150 NFC 730</b>	24 - 106	3.850 - 15.460	160	2 x HME 80 - 2 x HME 250	8,6

52002 0005	<b>52 L150 NFC 730</b>	24 - 106	3.980 - 15.890	166	2 x HME 80 - 2 x HME 250	10,7
52002 0006	<b>52 L210 NFC 730</b>	32 - 140	5.240 - 20.880	164	2 x HST 70 - HME 400	10,8
52002 0009	<b>52 L250 NFC 730</b>	37 - 175	6.410 - 25.190	173	2 x HST 70 - HST 250	11,0

Factory setting L50: 18 W; replaces approx. HME 125, HST 70  
 Factory setting L100: 54 W; replaces approx. HME 250  
 Factory setting L150: 106 W; replaces approx. 2 x HME 250

Factory setting L210: 140 W; replaces approx. HME 400  
 Factory setting L250: 175 W; replaces approx. HST 250

1) possible setting range

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



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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## Design RFL - Ready for Light Management System

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



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.

### Product highlights of the RFL version:

- standardized Zhaga compliant sockets allow free choice of Light Management System
- subsequent use of a lighting management system possible at any time
- tool-free, quick assembly of the Light Management System components



## 51... / 52... 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
51003 0038	51 4803 RFLO	106	16.270	153	8,6
52003 0002	52 4803 RFLO	106	16.730	158	10,7
52003 0003	52 6403 RFLO	140	21.980	157	10,8
52003 0019	52 8003 RFLO	175	26.520	152	11,0

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
51003 0041	51 4803 730 RFLO	106	15.460	146	8,6
52003 0011	52 4803 RFLO 730	106	15.890	150	10,7
52003 0012	52 6403 RFLO 730	140	20.880	149	10,8
52003 0022	52 8003 RFLO 730	175	25.190	144	11,0

## 51... / 52... RFLU



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



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

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
51003 0039	51 4803 RFLU	106	16.270	153	8,6
52003 0005	52 4803 RFLU	106	16.730	158	10,7
52003 0006	52 6403 RFLU	140	21.980	157	10,8
52003 0020	52 8003 RFLU	175	26.520	152	11,0

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
51003 0042	51 4803 730 RFLU	106	15.460	146	8,6
52003 0014	52 4803 RFLU 730	106	15.890	150	10,7
52003 0015	52 6403 RFLU 730	140	20.880	149	10,8
52003 0023	52 8003 RFLU 730	175	25.190	144	11,0

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	Weight [kg] (without packing material)
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## 51... / 52... 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
51003 0040	51 4803 RFLOU	106	16.270	153	8,6
52003 0008	52 4803 RFLOU	106	16.730	158	10,7
52003 0009	52 6403 RFLOU	140	21.980	157	10,8
52003 0021	52 8003 RFLOU	175	26.520	152	11,0

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
51003 0043	51 4803 730 RFLOU	106	15.460	146	8,6
52003 0017	52 4803 RFLOU 730	106	15.890	150	10,7
52003 0018	52 6403 RFLOU 730	140	20.880	149	10,8
52003 0024	52 8003 RFLOU 730	175	25.190	144	11,0



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



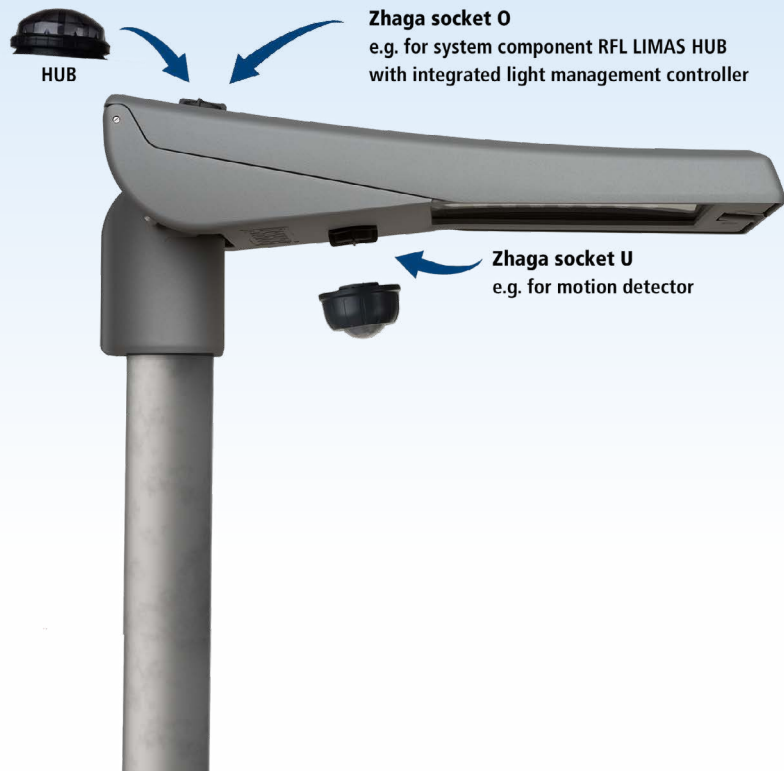
## System components

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 9018	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, CO<sub>2</sub>, 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



## Lighting of escape routes and outdoor assembly points

**ZB versions for connection to central emergency supply systems.**

ZB versions of SCHUCH LED outdoor luminaires meet the requirements for emergency for emergency luminaires in accordance with EN 60598 Part 2-22 and can be used in safety lighting systems in accordance with **DIN EN 50172 VDE 0108-100:2024-10** for the illumination of escape routes and outdoor assembly points in accordance with DIN EN 1838 and ASR A2.3.



The luminous flux in emergency mode can be selected between 10-100 %. Programming is carried out at the factory.

## Adaptive light in outdoor areas EcoTune luminaires from SCHUCH

Adaptive systems that allow outdoor lighting to be flexibly adjusted to changing situations offer many forward-looking solutions that take into account not only the safety of road users and the requirements of residents, but also the ecological aspects of night-time lighting.

### Changing the light color

Here, two different light colors are combined in one luminaire (e.g. 4,000 K and 2,200 K).

By changing the mixing ratio of the two light colors, the light emitted in the quieter evening and night hours can be changed from neutral white light to a warmer, more pleasant light. In the morning hours, the proportion of neutral light color is increased again, resulting in a brighter and higher-contrast light. The light can also be controlled in conjunction with motion sensors.

### Changing the light distribution

Two different optics with different light distributions are used here, which is intended to reduce glare on wet roads. Whether such a solution makes sense in individual cases can only be **discussed in a detailed consultation**.

**You can find more detailed information on the subject of adaptive light in our outdoor lighting catalog.**

RZ 76/42 VIA



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

## Accessories / Spare Parts

Article No.	Type	
51010 9000	<b>ABD 51</b>	cover, pane safety glas clear, for 51...
52010 9000	<b>ABD 52</b>	cover, pane safety glas clear, for 52...
90309 0001	<b>RZ 76/42 VIA</b>	adapter for mast top Ø 42 mm, black