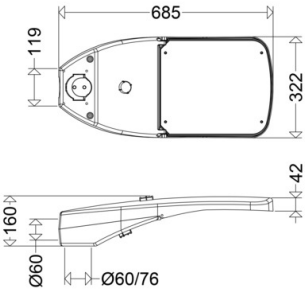
LED outdoor light fitting

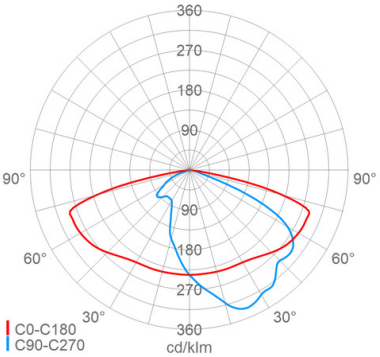
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General product description

LED outdoor light fitting consisting of powder-coated die-cast aluminium housing, two-part. Upper part with ECG, LED modules, optics and frameless tempered safety glass pane, hinged and detachable from the lower part. Lower part with integrated pole mounting system, adjustable inclination, cable entry, strain relief and integrated pressure compensation system (dirt-resistant). Zhaga socket on the top and/or bottom of the housing. Electro kit carrying all electrical components, completely removable by unplugging isolating plug connection. Zhaga LED modules with highly efficient optics, direct beam, Multi-Layer Technology. ECG with high surge protection, overload and short circuit protection. Universal die-cast aluminium pole mounting system for pole top Ø 60/76 mm and pole base Ø 60 mm or Ø 42 mm with separate reducing accessories. The light fitting is prepared for later upgrades with components of a light management system with Zhaga socket. RFL luminaires from Schuch use D4i control gear without exception. 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. However, controllers and sensors that do not comply with the D4i standard may restrict the functionality of the luminaires and components. In addition, in individual cases, such non-certified components may cause damage to both the luminaires and the components.





General product benefits

- later use of a light management system possible at any time
- quick assembly of the light management system components, no tools required
- standardized Zhaga socket allow free choice of light management system
- long-lasting, corrosion-resistant die-cast aluminium housing with smooth surface without cooling fins
- perfect thermal management due to direct connection of the LED modules to the housing
- integrated pressure compensation system prevents condensation inside the light fitting
- tiltable universal pole mounting system for pole-top and side-entry mounting, no tools required
- no additional mounting adapters required
- removable upper part of the housing allows comfortable, time- and cost-saving mounting in 2 steps: 1.: Mount lower part on the pole and connect the mains - 2.: Hinge upper part, connect isolating plug and shut the housing. READY
- adjustable inclination of the light fitting, no tools required
- upgrades in regard to technical development by easy change of the upper part. After replacement of the LED modules, the upper part can be used again
- homogenous illumination due to Multi-Layer Technology
- no light emission into the upper half space. ULOR=0
- versions dimmable to 10% and with color temperature up to 3,000 K comply with Dark Sky requirements
- interchangeable components
- future proof by using standardised Zhaga LED modules

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Applications

- residential streets, main, by-roads and through roads, roundabouts,streets on factory sites, railway tracks, parking areas, car parks, gateways etc.

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Technical data

General

EAN/GTIN:	4041254379296

Key technical data

Light source:	LED
LED module standard:	Zhaga
Exchangeability:	light source and control gear replaceable by qualified person
Connected load:	106 W
Luminaire luminous flux:	16010 lm
Luminous efficacy:	151 lm/W
Colour temperature:	3000 K
Colour rendering (CRI):	≥ 70
Light colour:	730
Admissible ambient temperature T_a:	-40 °C to +40 °C
Control gear:	1 x ECG (NFC-enabled), Overload protection, Short circuit protection
Energy efficiency class:	C
Overvoltage protection:	10 kV
I LED max:	700 mA

Lighting control

Light management system:	Ready for Light Management Systems (RFL)
RFL socket:	socket on the top and at the bottom (RFLOU)

Lighting technology

Optical system:	Lens optics
Optical system material:	PMMA
Light distribution:	asymmetrical wide beam
Photobiological safety:	RG1

Service life

Service life LED:	L95>100000 h (@ Ta max)

Electrical connection

Rated voltage:	220 - 240 V, 50/60 Hz
Terminal clamp:	Plug, Screw terminal, 3-polig, 0,75 - 2,5 mm²
Max. no. with circuit breaker B16:	10
CB B10/B13/B20:	7/9/13
CB C10/C13/C16/C20:	10/13/17/20
Cable entries:	blanking plug (1x), Plastic, 9 - 14 mm

Features/Certificates

Protection class:	II
IP rating:	IP66
IK rating:	IK09
Approval marks:	CE, VDE, ENEC

Mounting

Mounting method (accessories possibly needed):	Pole-top mounting, Side-entry mounting, Side-entry mounting Ø 42mm only with reducer Article number: 90306 0004
Operating position:	downwards radiation
Side-entry mounting:	Ø 60mm x 100mm
Pole-top mounting:	Ø 60/76mm
Inclination side-entry:	0 °, -5 °, -10 °, -15 °
Inclination pole-top:	0 °, 5 °, 10 °
Wind-exposed surface:	0.05 m²

Housing

Housing material:	Die-cast aluminium
Varnished:	Yes
Colour:	grey, DB 702

Cover

Cover type / material:	Pane (Safety glass)
Cover characteristic:	clear
Closure:	screwed

Other features

Pressure compensation system:	Yes

Product life cycle

Dismountable at end of life:	Yes
recyclable:	≥ 80 %
Construction modular:	Yes
Spareparts availability > 10 years:	Yes
luminaire is upgradeable:	Yes
Guarantee 5 years:	Yes
Packaging made of 95% recyclet paper:	Yes

Dimension/Weight

Length:	685.00 mm
Width / Diameter:	322.00 mm
Height:	160.00 mm
Net weight:	10.20 kg

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Optional accessories / spare parts

Item no.	Item name	Item description
47001 9002	ABD 47 ESGW	safety glass pane clear
90306 0004	RZ 60/42 CAMINO	reducer ø60 -> 42mm
48600 0001	4860	pole arm bracket cast aluminium ø=42mm, L=100mm
48600 0002	4861	pole arm bracket ø=60mm, L=100mm
48600 0003	4862	pole arm bracket cast aluminium ø=42mm, L=250mm
48600 0004	4863	pole arm bracket cast aluminium ø=42mm, L=400mm
48600 0005	4864	pole arm bracket cast aluminium ø=60mm, L=250mm
48700 0002	4871 RAL7035	pole arm bracket ø=60mm, L=100mm
48700 0504	4871 DB703	pole arm bracket ø=60mm, L=100mm
60099 0001	MAU 600/1	pole-top bracket for 1 light fitting ø=42mm (side-entry mounting)
60099 0002	MAU 600/2	pole-top bracket for 2 light fittings (180°) ø=42mm (side-entry mounting)
60099 0004	MAU 600/4	pole-top bracket for 4 light fittings (90°) ø=42mm (side-entry mounting)
60099 0003	MAU 600/3	pole-top bracket for 3 light fittings (120°) ø=42mm (side-entry mounting)
60199 0001	MAU 601/1	pole-top bracket for 1 light fitting ø=60mm
60199 0002	MAU 601/2	pole-top bracket for 2 light fittings ø=60mm
60199 0004	MAU 601/4	pole-top bracket for 4 light fittings ø=60mm
60199 0003	MAU 601/3	pole-top bracket for 3 light fittings ø=60mm
60699 0001	606	reducer ø48 -> 42mm L=400mm
60799 0001	607	reducer ø60 -> 42mm L=230mm
62599 0001	MAU 625/1	pole-top bracket for 1 light fitting ø=60mm
62599 0002	MAU 625/2	pole-top bracket for 2 light fittings ø=60mm
62599 0003	MAU 625/3	pole-top bracket for 3 light fittings ø=60mm
62599 0004	MAU 625/4	pole-top bracket for 4 light fittings ø=60mm
90113 0019	HA 32/L80/L100 VS	Shielding on the house side , plastic (PC) for 32 and L100
90113 0020	HA 48/L150 VS	Shielding on the house side , plastic (PC) for 48 and L150
90113 0021	HA 64/L210 VS	Shielding on the house side , plastic (PC) for 64 and L210
90543 0001	LASC DONGLE USB + SOFT + LIZ	LIMAS Air SYNC USB dongle with software and license
90546 9027	RFL LASC DS GPS	RFL LIMAS Air SYNC lighting management controller (2.4 GHz mesh network) with light sensor and GPS antenna
90546 9010	RFL LASC DS GPS SIM	RFL LIMAS Air SYNC lighting management controller (2.4 GHz mesh network) with light sensor, GPS antenna and eSIM

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90546 9011	RFL LASC BM RAD8	RFL LIMAS Air SYNC lighting management controller (2.4 GHz mesh network) with radar motion sensor (luminaire mounting height: max. 8.0 m)
90546 9012	RFL LASC BM RAD10 MA MK2	RFL LIMAS Air SYNC lighting management controller (2.4 GHz mesh network) with radar motion sensor (maximum installation height: 10.0 m) for pole mounting with 2.0 m cable
90546 9000	RFL DS20	RFL control unit with light sensor, standalone, 20 lx
90546 9004	RFL BM/DS IR8	RFL motion sensor with light sensor, infrared (luminaire mounting height: max. 8.0 m)
90545 0004	LASC GATEWAY 3 EU	Gateway for comprehensive monitoring and control of light fittings remotely
90546 9018	RFL BM/DS IR12	RFL motion sensor with light sensor, infrared (luminaire mounting height: max. 12.0 m)