



# LIGHTSTREAM

Spotlights and pole luminaires

# LIGHTSTREAM

Overview



Dark Sky: Protects insects and the environment

Versions with Zhaga sockets for the integration of light management systems

Sustainable thanks to replaceable components



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# LIGHTSTREAM

Spotlights and pole luminaires

## Wonderfully modular: Radiance in multifaceted perfection

Spotlight or post-top luminaire? Yes - because LIGHTSTREAM is both. This and the comprehensive range of variants make the outdoor luminaire a universally applicable lighting tool for illuminating paths, public roads and car parks.

Hard shell, soft core: the seawater-resistant coating makes the luminaire extremely robust. But thanks to Dark Sky technology, light pollution and smog don't stand a chance - which pleases insects and protects the environment.

## Architecture

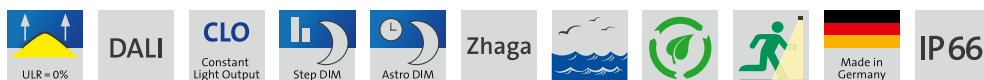
- ⊕ **Versatile:** Clever combination of spotlight and pole luminaire in one.
- ⊕ **Extensive:** 3 sizes, 2 assembly methods, 6 light distributions, 2 colours.
- ⊕ **Tested:** Vibration test according to DIN EN 60598-1.
- ⊕ **Robust:** Seawater resistant coating.
- ⊕ **Sustainable:** Environmentally friendly and resource-saving due to replaceable components.
- ⊕ **Safe:** Also available as an emergency luminaire in accordance with EN IEC 60598-2-22.

## Lighting design

- ⊕ **Reliable planning:** The comprehensive selection of light distributions and light outputs allows for an universal application regarding illumination of private paths, public roads up to area lighting (parking lots) according to EN 13201.
- ⊕ **Dark Sky:** Protects insects and the environment. Avoiding light pollution.
- ⊕ **Standard:** Control gear with integrated surge protection up to 10 kV.

## Installation

- ⊕ **Flexible:** Modular design for combining spotlights and mounting accessories as required.
- ⊕ **Easy installation:** Quick and easy installation due to pre-wired connection cable.
- ⊕ **Advantageous:** Extensive installation accessories for any application scenarios.
- ⊕ **Smart Lighting:** Versions with Zhaga Book 18 sockets available for the integration of components for light management systems or sensors.

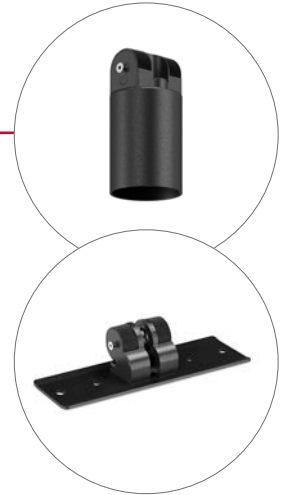


# LIGHTSTREAM

At a glance



Environmentally friendly and resource-saving due to replaceable components.



**Modular design:** Extensive range of pole tops and mounting brackets.

**Mounting set must be ordered separately.**



DALI dimmable, CLO, integrated surge protection and various dim options.

**IP66**

Cover clear single-pane toughened glass.



LIGHTSTREAM mini:  
Also available as an emergency luminaire in accordance with EN IEC 60598-2-22.

With membrane valve as a standard to avoid condensed water.

Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale.



Seawater resistant coating.



**Zhaga**

Replaceable LED spot modules according to ZHAGA standards.



**Dark Sky**

Protects insects and the environment thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution.

**3 sizes:** mini, midi, maxi  
**2 colours:** anthracite, silver



# LIGHTSTREAM

My strengths in detail



## **+** I am sustainable

The design with LED drivers, LED modules and lenses according to the Zhaga standard guarantees future-proofness and adaptability of light colours and distributions according to requirements. Thus, light is directed specifically and efficiently to where it is needed. With 0% luminous flux output upwards (ULR 0%), light pollution is avoided and an important contribution is made to Dark Sky. This not only protects insects, but the entire environment.



## **+** Adjust me

Adjustment in 5° steps allows flexible alignment of the headlamp for purposeful illumination. Clear markings on the adjuster help to precisely set the desired angle.



## **+** Prepared for anything

Optionally available with Zhaga interfaces on the top and bottom. This prepares the luminaires for the later use of sensors and light management systems. Corresponding components can be retrofitted easily and without tools.





## Photometrics

- ⊕ Luminous efficiency up to 159 lm/W.
- ⊕ Luminaire flux up to 39200 lm.
- ⊕ Colour temperature 3000 K and 4000 K.
- ⊕ Colour rendering index Ra > 70.
- ⊕ Symmetrical and asymmetrical light distribution.
- ⊕ LED rated life 100000 h (L90/B50).

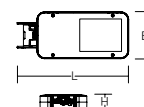
# LIGHTSTREAM

## Product overview | Projectors and pole luminaires



### Spotlights | LIGHTSTREAM mini

Type of protection: IP 66  
 Protection class: I  
 Impact resistance: IK06



Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Cover clear single-pane toughened glass, edge printed. Cover screwed to housing. With membrane valve as a standard to avoid condensed water. Lens system made of plastic (PMMA). Light distribution optimised for road or area lighting. Replaceable LED spot modules according to ZHAGA standards. Constant light output (CLO). Converter compatible with DC. With NFC programming interface. Pre-assembled connection cable.

#### Modular design: Mounting set must be ordered separately.

The integrated Zhaga base allows sensors and light management systems to be retrofitted without the need for tools.

Available colours (X): 31 = anthracite, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [lm/W]	[°]	Lighting Control	Price Category
<b>Area floodlight - Symmetrical light distribution</b>								
<b>Medium lens</b>								
722283.00X	L 395, B 166, H 49	730	4600	31	148	25	on/off	12
722283.00X.76	L 395, B 166, H 49	730	4600	31	148	25	DALI	12
722283.00X.1	L 395, B 166, H 49	740	4900	31	158	25	on/off	12
722283.00X.1.76	L 395, B 166, H 49	740	4900	31	158	25	DALI	12
<b>Wide flood lens</b>								
722284.00X	L 395, B 166, H 49	730	4600	31	148	55/55	on/off	12
722284.00X.76	L 395, B 166, H 49	730	4600	31	148	55/55	DALI	12
722284.00X.1	L 395, B 166, H 49	740	4900	31	158	55/55	on/off	12
722284.00X.1.76	L 395, B 166, H 49	740	4900	31	158	55/55	DALI	12
<b>Extra wide flood lens</b>								
722285.00X	L 395, B 166, H 49	730	4500	31	145	90/90	on/off	12
722285.00X.76	L 395, B 166, H 49	730	4500	31	145	90/90	DALI	12
722285.00X.1	L 395, B 166, H 49	740	4800	31	155	90/90	on/off	12
722285.00X.1.76	L 395, B 166, H 49	740	4800	31	155	90/90	DALI	12

### Area floodlight - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722283.11X	L 395, B 166, H 49	730	4300	31	139		on/off	12
722283.11X.76	L 395, B 166, H 49	730	4300	31	139		DALI	12
722283.11X.1	L 395, B 166, H 49	740	4600	31	148		on/off	12
722283.11X.1.76	L 395, B 166, H 49	740	4600	31	148		DALI	12
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722284.11X	L 395, B 166, H 49	730	4400	31	142		on/off	12
722284.11X.76	L 395, B 166, H 49	730	4400	31	142		DALI	12
722284.11X.1	L 395, B 166, H 49	740	4700	31	152		on/off	12
722284.11X.1.76	L 395, B 166, H 49	740	4700	31	152		DALI	12
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722285.11X	L 395, B 166, H 49	730	3950	31	127		on/off	12
722285.11X.76	L 395, B 166, H 49	730	3950	31	127		DALI	12
722285.11X.1	L 395, B 166, H 49	740	4250	31	137		on/off	12
722285.11X.1.76	L 395, B 166, H 49	740	4250	31	137		DALI	12

### Area floodlight, with Zhaga socket (Book 18) on top - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722283.11X.Z1	L 395, B 166, H 61	730	4300	31	139		DALI Zhaga	12
722283.11X.1.Z1	L 395, B 166, H 61	740	4600	31	148		DALI Zhaga	12
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722284.11X.Z1	L 395, B 166, H 61	730	4400	31	142		DALI Zhaga	12
722284.11X.1.Z1	L 395, B 166, H 61	740	4700	31	152		DALI Zhaga	12
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722285.11X.Z1	L 395, B 166, H 61	730	3950	31	127		DALI Zhaga	12
722285.11X.1.Z1	L 395, B 166, H 61	740	4250	31	137		DALI Zhaga	12

### Area floodlight, with Zhaga socket (Book 18) on top and bottom - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722283.11X.Z2	L 395, B 166, H 49	730	4300	31	139		DALI Zhaga	12
722283.11X.1.Z2	L 395, B 166, H 49	740	4600	31	148		DALI Zhaga	12
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722284.11X.Z2	L 395, B 166, H 49	730	4400	31	142		DALI Zhaga	12
722284.11X.1.Z2	L 395, B 166, H 49	740	4700	31	152		DALI Zhaga	12
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722285.11X.Z2	L 395, B 166, H 49	730	3950	31	127		DALI Zhaga	12
722285.11X.1.Z2	L 395, B 166, H 49	740	4250	31	137		DALI Zhaga	12

### Comparison LED vs. conventional lamps

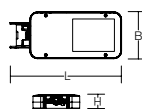
LED 31 W ≈  
 1 x 50 W HIT (56 W Psys)



Modules and accessories can be found from page 14

### Spotlights | LIGHTSTREAM midi

Type of protection: IP 66  
 Protection class: I  
 Impact resistance: IK08



Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Cover clear single-pane toughened glass, edge printed. Cover screwed to housing. With membrane valve as a standard to avoid condensed water. Lens system made of plastic (PMMA). Light distribution optimised for road or area lighting. Replaceable LED spot modules according to ZHAGA standards. Constant light output (CLO). Converter compatible with DC. With NFC programming interface. Pre-assembled connection cable.

#### Modular design: Mounting set must be ordered separately.

The integrated Zhaga base allows sensors and light management systems to be retrofitted without the need for tools.

Available colours (X): 31 = anthracite, 4 = silver



Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency [lm/W]	$\alpha$ [°]	Lighting Control	Price Category
<b>Area floodlight - Symmetrical light distribution</b>								
<b>Medium lens</b>								
722286.00X	L 516, B 220, H 56	730	13800	93	148	25	on/off	12
722286.00X.76	L 516, B 220, H 56	730	13800	93	148	25	DALI	12
722286.00X.1	L 516, B 220, H 56	740	14800	93	159	25	on/off	12
722286.00X.1.76	L 516, B 220, H 56	740	14800	93	159	25	DALI	12
<b>Wide flood lens</b>								
722287.00X	L 516, B 220, H 56	730	13700	93	147	55/55	on/off	12
722287.00X.76	L 516, B 220, H 56	730	13700	93	147	55/55	DALI	12
722287.00X.1	L 516, B 220, H 56	740	14700	93	158	55/55	on/off	12
722287.00X.1.76	L 516, B 220, H 56	740	14700	93	158	55/55	DALI	12
<b>Extra wide flood lens</b>								
722288.00X	L 516, B 220, H 56	730	13500	93	145	90/90	on/off	12
722288.00X.76	L 516, B 220, H 56	730	13500	93	145	90/90	DALI	12
722288.00X.1	L 516, B 220, H 56	740	14500	93	156	90/90	on/off	12
722288.00X.1.76	L 516, B 220, H 56	740	14500	93	156	90/90	DALI	12

#### Area floodlight - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722286.11X	L 516, B 220, H 56	730	12800	93	138		on/off	619,00
722286.11X.76	L 516, B 220, H 56	730	12800	93	138		DALI	669,00
722286.11X.1	L 516, B 220, H 56	740	13800	93	148		on/off	619,00
722286.11X.1.76	L 516, B 220, H 56	740	13800	93	148		DALI	669,00
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722287.11X	L 516, B 220, H 56	730	13100	93	141		on/off	619,00
722287.11X.76	L 516, B 220, H 56	730	13100	93	141		DALI	669,00
722287.11X.1	L 516, B 220, H 56	740	14100	93	152		on/off	619,00
722287.11X.1.76	L 516, B 220, H 56	740	14100	93	152		DALI	669,00
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722288.11X	L 516, B 220, H 56	730	12300	93	132		on/off	619,00
722288.11X.76	L 516, B 220, H 56	730	12300	93	132		DALI	669,00
722288.11X.1	L 516, B 220, H 56	740	13200	93	142		on/off	619,00
722288.11X.1.76	L 516, B 220, H 56	740	13200	93	142		DALI	669,00

#### Area floodlight, with Zhaga socket (Book 18) on top - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722286.11X.Z1	L 516, B 220, H 65	730	12800	93	138		DALI Zhaga	749,00
722286.11X.1.Z1	L 516, B 220, H 65	740	13800	93	148		DALI Zhaga	749,00
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722287.11X.Z1	L 516, B 220, H 65	730	13100	93	141		DALI Zhaga	749,00
722287.11X.1.Z1	L 516, B 220, H 65	740	14100	93	152		DALI Zhaga	749,00
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722288.11X.Z1	L 516, B 220, H 65	730	12300	93	132		DALI Zhaga	779,00
722288.11X.1.Z1	L 516, B 220, H 65	740	13200	93	142		DALI Zhaga	779,00

#### Area floodlight, with Zhaga socket (Book 18) on top and bottom - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722286.11X.Z2	L 516, B 220, H 78	730	12800	93	138		DALI Zhaga	749,00
722286.11X.1.Z2	L 516, B 220, H 78	740	13800	93	148		DALI Zhaga	749,00
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722287.11X.Z2	L 516, B 220, H 78	730	13100	93	141		DALI Zhaga	779,00
722287.11X.1.Z2	L 516, B 220, H 78	740	14100	93	152		DALI Zhaga	779,00
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722288.11X.Z2	L 516, B 220, H 78	730	12300	93	132		DALI Zhaga	779,00
722288.11X.1.Z2	L 516, B 220, H 78	740	13200	93	142		DALI Zhaga	779,00

**Comparison LED vs. conventional lamps**

LED 93 W ≈  
 1 x 150 W HIT (160 W Psys)



Modules and accessories can be found from page 14

# LIGHTSTREAM

## Product overview | Projectors and pole luminaires



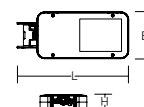
### Spotlights | LIGHTSTREAM maxi

Type of protection: IP 66  
 Protection class: I  
 Impact resistance: IK08

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Cover clear single-pane toughened glass, edge printed. Cover screwed to housing. With membrane valve as a standard to avoid condensed water. Lens system made of plastic (PMMA). Light distribution optimised for road or area lighting. Replaceable LED spot modules according to ZHAGA standards. Constant light output (CLO). Converter compatible with DC. With NFC programming interface. Pre-assembled connection cable.

**Modular design: Mounting set must be ordered separately.**

The integrated Zhaga base allows sensors and light management systems to be retrofitted without the need for tools.



Available colours (X): 31 = anthracite, 4 = silver

Reference number	Dimensions [mm]	Light colour	Luminous flux [lm]	System power [W]	System efficiency* [lm/W]	Beam angle [°]	Lighting Control	Price Category
<b>Area floodlight - Symmetrical light distribution</b>								
<b>Medium lens</b>								
722289.00X	L 743, B 291, H 56	730	37200	246	151	25	on/off	12
722289.00X.76	L 743, B 291, H 56	730	37200	246	151	25	DALI	12
722289.00X.1	L 743, B 291, H 56	740	39200	246	159	25	on/off	12
722289.00X.1.76	L 743, B 291, H 56	740	39200	246	159	25	DALI	12
<b>Wide flood lens</b>								
722290.00X	L 743, B 291, H 56	730	36800	246	150	55/55	on/off	12
722290.00X.76	L 743, B 291, H 56	730	36800	246	150	55/55	DALI	12
722290.00X.1	L 743, B 291, H 56	740	38700	246	157	55/55	on/off	12
722290.00X.1.76	L 743, B 291, H 56	740	38700	246	157	55/55	DALI	12
<b>Extra wide flood lens</b>								
722291.00X	L 743, B 291, H 56	730	36600	246	149	91/91	on/off	12
722291.00X.76	L 743, B 291, H 56	730	36600	246	149	91/91	DALI	12
722291.00X.1	L 743, B 291, H 56	740	38600	246	157	91/91	on/off	12
722291.00X.1.76	L 743, B 291, H 56	740	38600	246	157	91/91	DALI	12

### Area floodlight - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722289.11X	L 743, B 291, H 56	730	35400	246	144		on/off	12
722289.11X.76	L 743, B 291, H 56	730	35400	246	144		DALI	12
722289.11X.1	L 743, B 291, H 56	740	37200	246	151		on/off	12
722289.11X.1.76	L 743, B 291, H 56	740	37200	246	151		DALI	12
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722290.11X	L 743, B 291, H 56	730	36100	246	147		on/off	12
722290.11X.76	L 743, B 291, H 56	730	36100	246	147		DALI	12
722290.11X.1	L 743, B 291, H 56	740	38000	246	154		on/off	12
722290.11X.1.76	L 743, B 291, H 56	740	38000	246	154		DALI	12
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722291.11X	L 743, B 291, H 56	730	34300	246	139		on/off	12
722291.11X.76	L 743, B 291, H 56	730	34300	246	139		DALI	12
722291.11X.1	L 743, B 291, H 56	740	36100	246	147		on/off	12
722291.11X.1.76	L 743, B 291, H 56	740	36100	246	147		DALI	12

### Area floodlight, with Zhaga socket (Book 18) on top - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722289.11X.Z1	L 743, B 291, H 56	730	34200	248	138		DALI Zhaga	12
722289.11X.1.Z1	L 743, B 291, H 56	740	36700	248	148		DALI Zhaga	12
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722290.11X.Z1	L 743, B 291, H 56	730	34900	248	141		DALI Zhaga	12
722290.11X.1.Z1	L 743, B 291, H 56	740	37500	248	151		DALI Zhaga	12
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722291.11X.Z1	L 743, B 291, H 56	730	32700	248	132		DALI Zhaga	12
722291.11X.1.Z1	L 743, B 291, H 56	740	35200	248	142		DALI Zhaga	12

### Area floodlight, with Zhaga socket (Book 18) on top and bottom - Asymmetrical light distribution

<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
722289.11X.Z2	L 743, B 291, H 83	730	34200	248	138		DALI Zhaga	12
722289.11X.1.Z2	L 743, B 291, H 83	740	36700	248	148		DALI Zhaga	12
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
722290.11X.Z2	L 743, B 291, H 83	730	34900	248	141		DALI Zhaga	12
722290.11X.1.Z2	L 743, B 291, H 83	740	37500	248	151		DALI Zhaga	12
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
722291.11X.Z2	L 743, B 291, H 56	730	32700	248	132		DALI Zhaga	12
722291.11X.1.Z2	L 743, B 291, H 83	740	35200	248	142		DALI Zhaga	12

**Comparison LED vs. conventional lamps**  
 LED 246 W ≈  
 1 x 400 W HIE (440 W Psys)



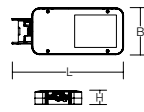
Modules and accessories can be found from page 14

## Spotlights | LIGHTSTREAM mini

Type of protection: IP 66  
 Protection class: I  
 Impact resistance: IK06

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Cover clear single-pane toughened glass, edge printed. Cover screwed to housing. With membrane valve as a standard to avoid condensed water. Lens system made of plastic (PMMA). Light distribution optimised for road or area lighting. Replaceable LED spot modules according to ZHAGA standards. Constant light output (CLO). With NFC programming interface. Pre-assembled connection cable, length 0.5 m.

**Modular design: Mounting set must be ordered separately.**



## Luminaires for central battery system

Voltage type: AC/DC  
 Operating mode: can either be connected in non-maintained power mode or maintained power mode.

Available colours (X): 31 = anthracite, 4 = silver

Reference number	Dimensions [mm]	Light colour	Mains luminous flux [lm]	Mains system power [W]	Emergency luminous flux [lm]	Emergency system power [W]	Monitoring	Price Category
<b>Luminaires for central battery system</b>								
<b>Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201</b>								
672847.00X	L 395, B 166, H 49	730	4300	31	1100	8,6	Power	24
672847.00X.1	L 395, B 166, H 49	740	4600	31	1150	8,6	Power	24
<b>Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201</b>								
672848.00X	L 395, B 166, H 49	730	4400	31	1100	8,6	Power	24
672848.00X.1	L 395, B 166, H 49	740	4700	31	1200	8,6	Power	24
<b>Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)</b>								
672849.00X	L 395, B 166, H 49	730	3950	31	990	8,6	Power	24
672849.00X.1	L 395, B 166, H 49	740	4250	31	1050	8,6	Power	24



Modules and accessories can be found from page 14

# LIGHTSTREAM

## Module overview



### Modules for installation | LIGHTSTREAM

#### Modular design

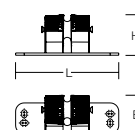
A mounting bracket or pole attachment is always required for installation.  
Please order the module separately from the luminaire.



#### Modules | LIGHTSTREAM - Mounting bracket

Mounting bracket for attachment to floor, wall and ceiling. Pressure die-cast aluminium, seawater resistant powder-coated.

Available colours (X): 31 = anthracite, 4 = silver



##### Mounting bracket

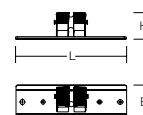
983164.00X	L 180, B 67, H 70	Suitable for LIGHTSTREAM mini / midi	12
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#### Modules | LIGHTSTREAM - Mounting bracket

Mounting bracket for attachment to floor, wall and ceiling. Increased cross-sectional area and larger hole spacing for better force distribution. Pressure die-cast aluminium, seawater resistant powder-coated.

Available colours (X): 31 = anthracite, 4 = silver



##### Mounting bracket

983117.00X	L 294, B 90, H 69	Suitable for LIGHTSTREAM mini / midi / maxi	12
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#### Modules | LIGHTSTREAM - Pole tops

Pole attachment for installation on the pole top. Pressure die-cast aluminium, seawater resistant powder-coated. For spigot diameter Ø 76 mm. Set of stainless steel fixing screws included. Cable gland into the pole as protection against rainwater.

Available colours (X): 31 = anthracite, 4 = silver

##### Pole tops

982978.00X	L 91, B 87, H 168	Pole attachment for 76 mm spigot.	12
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#### Reducing adapters

982562.000	L 43, B 76, H 95	For reducing Ø 76 mm spigot size to Ø 60 mm	12
982983.000	D 78, H 97	For reducing Ø 76 mm spigot size to Ø 42 mm.	12



## Accessories | LIGHTSTREAM

### Accessories | Fuse box

Housing: plastic. Contact protection in accordance with VBG 4. Input for 3 cables 5 x 16 mm<sup>2</sup>. One D01 / E14 Fuse. 2 outgoing lines.

#### Fuse box

61199.009	L 265, B 72, H 75	Fuse box.	12
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### Junction box H with strain relief

982638.003	L 78, B 53, H 28	Max. 4 x 1.5 mm <sup>2</sup> and cable diameter Ø 0.75 - 12 mm. 1 x In / 3 x Out, including 1 blind plug.	11
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### Round clip with strain relief

982977.003	D 23, L 64	Max. 4 x 4 mm <sup>2</sup> and cable diameter Ø 7 - 12 mm.	12
982974.003	D 23, L 89	Max. 5 x 1.5 mm <sup>2</sup> and cable diameter Ø 5 - 12 mm.	12



# LIGHTSTREAM

## Accessories for mounting with mounting bracket



### Accessories | LIGHTSTREAM mini / midi

The luminaire can only be mounted on the following accessoires with **mounting bracket 983164.00X**



### Accessories | Wall bracket

Wall arm for wall mounting. Made of stainless steel, blasted or powder coated finish. Option of top or lateral mounting at frontal bracket. Hidden cabling inside tubular profile with additional inlet at wall mounting plate.

#### Wall bracket

982058.000	L 500, B 180, H 180	Overall length 500 mm, uncoated	12
982058.0031	L 500, B 180, H 180	Overall length 500 mm, powder-coated anthracite	12
982086.000	L 1000, B 180, H 180	Overall length 1000 mm, uncoated	12
982086.0031	L 1000, B 180, H 180	Overall length 1000 mm, powder-coated anthracite	12



### Accessories | Pole tops

Pole attachment for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Available colours (X): 31 = anthracite, 4 = silver

#### Pole top fixings opposite mounting

982049.000	L 250, B 114, H 153	for spigot 60 mm, uncoated	12
982049.00X	L 250, B 114, H 153	for spigot 60 mm, powder-coated	12
982050.000	L 250, B 114, H 153	for spigot 76 mm, uncoated	12
982050.00X	L 250, B 114, H 153	for spigot 76 mm, powder-coated	12



### Accessories | Adapter set

Adapter plate set for mounting from several spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Available colours (X): 31 = anthracite, 4 = silver

#### Adapter set for pole attachments

982524.00X	L 395, B 395, H 120	Adapter set for 4-fold configuration (4 x 90°)	11
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### Accessories | Pole clip

Mounting bracket for lateral attachment along the pole. Stainless steel bracket with galvanised screws.

Smooth span width for different mounting heights. Installation of the luminaire only possible with mounting bracket.

#### Pole clip

982092.000	L 178, B 174, H 38	for pole diameter 95 - 114 mm, uncoated	12
982093.000	L 178, B 194, H 38	for pole diameter 115 - 135 mm, uncoated	12

Powder coating on request.



### Accessories | LIGHTSTREAM maxi

The luminaire can only be mounted on the following accessoires with **mounting bracket 983117.00X**



### Accessories | Pole tops

Pole attachment for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Available colours (X): 31 = anthracite, 4 = silver

#### Pole tops fixings opposite mounting

982003.000	L 346, B 112, H 154	for spigot 76 mm, uncoated	12
982003.00X	L 346, B 112, H 154	for spigot 76 mm, powder-coated	12
982004.000	L 346, B 136, H 204	for spigot 89 mm, uncoated	12
982004.00X	L 346, B 136, H 204	for spigot 89 mm, powder-coated	12
982005.000	L 346, B 136, H 204	for spigot 108 mm, uncoated	12
982005.00X	L 346, B 136, H 204	for spigot 108 mm, powder-coated	12



### Accessories | Adapter set

Adapter plate set for mounting from several spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Available colours (X): 31 = anthracite, 4 = silver

#### Adapter set for pole attachments

982401.00X	L 525, B 381, H 87	Adapter set for 3-fold configuration (3 x 120°)	12
982525.00X	L 460, B 410, H 55	Adapter set for 4-fold configuration (4 x 90°)	12



### Accessories | Pole clip

Mounting bracket for lateral attachment along the pole. Stainless steel bracket with galvanised screws. Smooth span width for different mounting heights. Installation of the luminaire only possible with mounting bracket.

Available colours (X): 31 = anthracite, 4 = silver

#### Pole clip

982478.00X	L 346, B 235, H 90	for pole diameter 95 - 140 mm, powder-coated	12
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# LIGHTSTREAM

## Accessories for mounting with pole top



### Accessories | LIGHTSTREAM

The luminaire can only be mounted on the following accessoires with **pole top 982978.00X**



### Accessories | Multiple brackets

Pole bracket for side mounting, hot-dip galvanized steel. For spigot diameter Ø 76 mm. Bracket arm length 500 mm, Ø 60 mm.

**Please order reducer adapter (982562.000) separately for installation the luminaire on the bracket!**

Available colours (X): 31 = anthracite, 4 = silver

#### Multiple brackets

982588.000	L 1015, B 90, H 250, d 76	Pole bracket for 2 luminaires, uncoated	12
982588.00X	L 1015, B 90, H 250, d 76	Pole bracket for 2 luminaires, powder-coated	12
982589.000	L 894, B 787, H 250, d 76	Pole bracket for 3 luminaires, uncoated	12
982589.00X	L 894, B 787, H 250, d 76	Pole bracket for 3 luminaires, powder-coated	12
982590.000	L 1015, B 1015, H 250, d 76	Pole bracket for 4 luminaires, uncoated	12
982590.00X	L 1015, B 1015, H 250, d 76	Pole bracket for 4 luminaires, powder-coated	12



#### Reducing adapters

982562.000	L 43, B 76, H 95	For reducing Ø 76 mm spigot size to Ø 60 mm	12
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### Accessories | Wall bracket

Wall bracket made of hot-dip galvanized steel. Bracket arm length 215 mm, Ø 76 mm, 75 ° vertically inclined.

Available colours (X): 31 = anthracite, 4 = silver

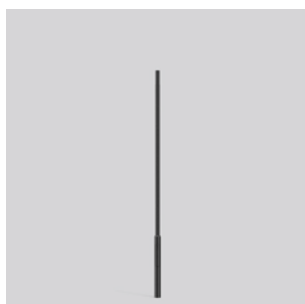
#### Wall bracket

982591.000	L 215, B 150, H 150	Wall bracket, uncoated	12
982591.00X	L 215, B 150, H 150	Wall bracket, powder-coated	12



# LIGHTSTREAM

## Steel poles

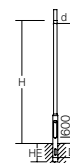


### Steel poles, spigot Ø: 76 mm

Cylindrical stepped pole made of steel according to DIN EN 40. Hot-dip galvanised in compliance with DIN EN ISO 1461. Flush pole door, 85 x 400 mm. Triangular lock, other locks on request. C-slot with two sliding nuts M6 and earthing thread M8. Cable hole 50 x 150 mm (UKK 500 mm below level).

**We charge additional shipping costs for small quantities up to 5 poles per place of delivery, regardless of the order value. Please ask for exact conditions for specific orders.**

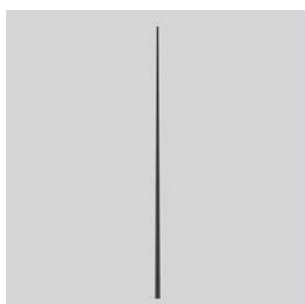
Available colours (X): 0 = blank, 31 = anthracite, 4 = silver



Reference number      Dimensions [mm]

#### Straight light poles cylindrical, stepped with swaged joint, according to EN 40

611891.000	D 114, H 3500, HE 600	uncoated	12
611891.00X	D 114, H 3500, HE 600	powder-coated	12
611892.000	D 114, H 4000, HE 800	uncoated	12
611892.00X	D 114, H 4000, HE 800	powder-coated	12
611893.000	D 114, H 4500, HE 800	uncoated	12
611893.00X	D 114, H 4500, HE 800	powder-coated	12
611894.000	D 114, H 5000, HE 800	uncoated	12
611894.00X	D 114, H 5000, HE 800	powder-coated	12
611895.000	D 114, H 6000, HE 1000	uncoated	12
611895.00X	D 114, H 6000, HE 1000	powder-coated	12



### Steel poles, spigot Ø: 76 mm

Conical steel pole, according to DIN EN 40. Hot-dip galvanised in compliance with DIN EN ISO 1461. Flush pole door, 85 x 400 mm. Triangular lock, other locks on request. C-slot with two sliding nuts M6 and earthing thread M8. Cable hole 50 x 150 mm (UKK 500 mm below level).

**We charge additional shipping costs for small quantities up to 5 poles per place of delivery, regardless of the order value. Please ask for exact conditions for specific orders.**

Available colours (X): 0 = blank, 31 = anthracite, 4 = silver



Reference number      Dimensions [mm]

#### Straight light poles conical round according to EN40

611896.000	D 134, H 3500, HE 600	uncoated	12
611896.00X	D 134, H 3500, HE 600	powder-coated	12
611897.000	D 124, H 4000, HE 800	uncoated	12
611897.00X	D 124, H 4000, HE 800	powder-coated	12
611898.000	D 129, H 4500, HE 800	uncoated	12
611898.00X	D 129, H 4500, HE 800	powder-coated	12
611899.000	D 134, H 5000, HE 800	uncoated	12
611899.00X	D 134, H 5000, HE 800	powder-coated	12
611900.000	D 146, H 6000, HE 1000	uncoated	12
611900.00X	D 146, H 6000, HE 1000	powder-coated	12
611901.000	D 156, H 7000, HE 1000	uncoated	12
611901.00X	D 156, H 7000, HE 1000	powder-coated	12
611902.000	D 168, H 8000, HE 1200	uncoated	12
611902.00X	D 168, H 8000, HE 1200	powder-coated	12
611903.000	D 191, H 10000, HE 1500	uncoated	12
611903.00X	D 191, H 10000, HE 1500	powder-coated	12



**Accessories | Fuse box**

Housing: plastic. Contact protection in accordance with VBG 4. Input for 3 cables 5 x 16 mm<sup>2</sup>. One D01 / E14 Fuse. 2 outgoing lines.

**Fuse box**

61199.009	L 265, B 72, H 75	Fuse box.	12
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**Base plate set - Mounting aid / protection against sinking**

982099.000	L 300, B 300, H 3	loose including fastening screws	12
982100.000	L 400, B 400, H 3	loose including fastening screws	12



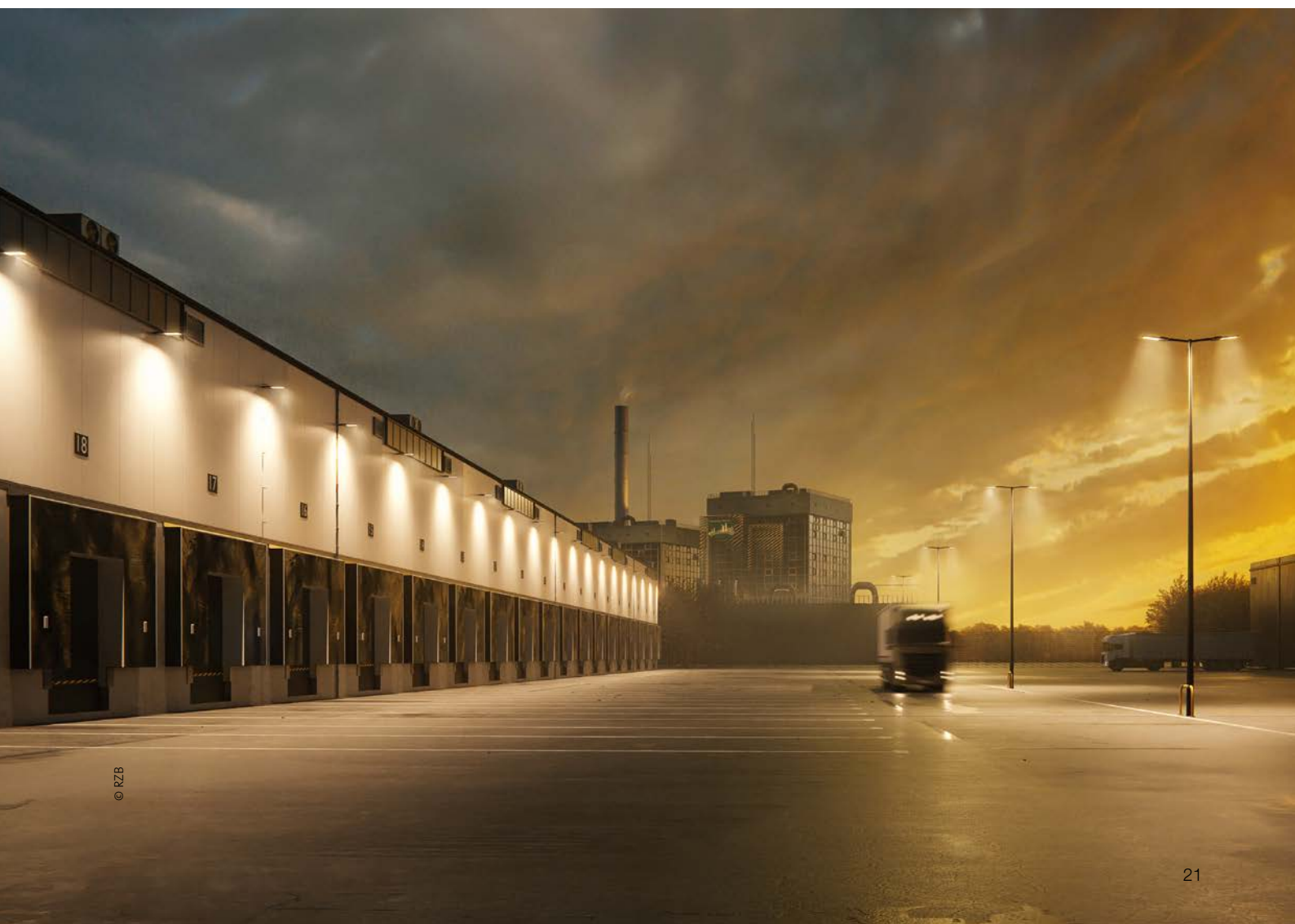
**Edge guard for cable hole**

982098.003		Edge guard for cable hole 50 x 150 mm	12
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**Shrink sleeve for earth transition area, plastic**

982566.003	L 450, D 130	for pole diameter 110 - 130 mm	12
982567.003	L 450, D 150	for pole diameter 125 - 150 mm	12
982101.003	L 450, D 170	for pole diameter 145 - 170 mm	12
982102.003	L 450, D 215	for pole diameter 170 - 195 mm	12





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