

# LED LINEAR WATERPROOF

WET ROOM LIGHT



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### Wet room light

The use of state-of-the-art LED technology in conventional outdoor illumination provides a lot of advantages like an optimal light distribution and an increased lifetime all at an affordable price. The LED Linear Waterproof is fully compatible with existing conventional lighting infrastructure, and are the perfect choice for both new and replacement markets.

#### ■ LED LINEAR WATERPROOF

- Incl. integrated LED driver
- High efficiency of up to 138 lm/W
- High colour rendering index CRI:  $\geq 80$
- Fast and easy installation: surface-mounting, built-in ceilings or suspended version



### LED Linear Waterproof

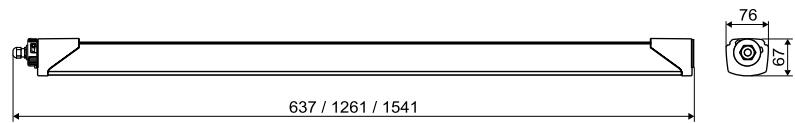
- **THREE LENGTHS: 600, 1200 OR 1500 MM**
- **THROUGH-WIRING VERSION**
- **100% INSTANT LIGHT**
- **INTEGRATED LED DRIVER**
- **LUMINAIRE CASING: UV PROTECTION**
- **LONG SERVICE LIFE:  
UP TO 70,000 HRS.**
- **5 YEARS GUARANTEE**



## LED Linear Waterproof

### Technical Notes

- Dimension (LxWxH):  
637 / 1261 mm or 1541 x 76 x 67 mm
- Casing colour: grey (RAL 7035)
- Endcap colour: grey (RAL 7046)
- Casing and diffuser material: PC (opal)
- Degree of protection: IP66
- Impact rating: IK08
- Fire protection: V2 (UL94)
- Glowwire test: 850 °C
- Typ. colour accuracy initially: 3 SDCM
- Connection method: terminal block incl. metal clips, screws and hook for wall or suspension installations



### Applied Standards

- EN 60598-1:2015
- EN 60598-2-1:1989
- EN 62471:2008
- EN 62493:2010
- EN 55015:2013
- EN 61000-3-2:2014
- EN 61000-3-3:2013
- EN 61547:2009

### Electrical Characteristics

Type	Voltage AC, 50–60 Hz V	Power factor	Ripple at 100 Hz %	THD at full load (230 V) %
All types	220–240	> 0.9	< 7	< 10

### Maximum Ratings

Exceeding the maximum ratings can lead to reduction of service life or destruction of the luminaires.

Type	Allowed voltage range V	Ambient temperature range (t <sub>a</sub> )		Storage temperature range	
		°C min.	°C max.	°C min.	°C max.
All types	198–264	-25	+35	-20	+60

### Operating Life

at t<sub>a</sub> = 25 °C

Type	L80/B10
WP-600-C-xx	50,000 hrs.
WP-1200-C-xx	50,000 hrs.
WP-1500-C-xx	50,000 hrs.
WP-1200-P-xx	70,000 hrs.
WP-1500-P-xx	70,000 hrs.

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

## Optical Characteristics – Comfort

at  $t_a = 25\text{ °C}$

Type	Ref. No.		Colour	Correlated colour temperature K	Typ. power consumption W	Typ. luminous flux* and efficiency*		Beam angle °	Typ. CRI $R_a$
		Through-wiring				lm	lm/W		
<b>Comfort – Length: 600 mm</b>									
WP-600-C-21-840	<b>570157</b>	–	neutral white	4000	21	2100	105	120	80
<b>Comfort – Length: 1200 mm</b>									
WP-1200-C-37-840 /-T	<b>569347</b>	<b>569348</b>	neutral white	4000	37	4200	114	120	80
WP-1200-C-37-850 /-T	<b>569355</b>	<b>569357</b>	cool white	5000	37	4300	116	120	80
WP-1200-C-37-865 /-T	<b>569356</b>	<b>569358</b>	cool white	6500	37	4200	114	120	80
<b>Comfort – Length: 1500 mm</b>									
WP-1500-C-51-840 /-T	<b>569349</b>	<b>569350</b>	neutral white	4000	51	5700	112	120	80
WP-1500-C-51-850 /-T	<b>569359</b>	<b>569361</b>	cool white	5000	51	5800	116	120	80
WP-1500-C-51-865 /-T	<b>569360</b>	<b>569362</b>	cool white	6500	51	5700	112	120	80

\* Production tolerance of luminous flux and efficiency:  $\pm 10\%$  | Further colour temperatures on request

## Optical Characteristics – Prime

at  $t_a = 25\text{ °C}$

Type	Ref. No.		Colour	Correlated colour temperature K	Typ. power consumption W	Typ. luminous flux* and efficiency*		Beam angle °	Typ. CRI $R_a$
		Through-wiring				lm	lm/W		
<b>Prime – Length: 1200 mm</b>									
WP-1200-P-29-840 /-T	<b>569351</b>	<b>569352</b>	neutral white	4000	29	4000	138	120	80
WP-1200-P-29-850 /-T	<b>569313</b>	<b>569315</b>	cool white	5000	29	4000	138	120	80
WP-1200-P-29-865 /-T	<b>569314</b>	<b>569316</b>	cool white	6500	29	4000	138	120	80
<b>Prime – Length: 1500 mm</b>									
WP-1500-P-44-840 /-T	<b>569353</b>	<b>569354</b>	neutral white	4000	44	6000	138	120	80
WP-1500-P-44-850 /-T	<b>569317</b>	<b>569319</b>	cool white	5000	44	6000	138	120	80
WP-1500-P-44-865 /-T	<b>569318</b>	<b>569320</b>	cool white	6500	44	6000	138	120	80

\* Production tolerance of luminous flux and efficiency:  $\pm 10\%$  | Further colour temperatures on request

## Accessories

### Anti-theft device

Material: plastics

Packaging unit: 4 pcs.

Type: WP Anti-theft

Ref. No.: **570158**

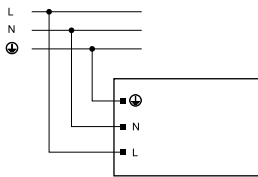


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## Assembly and Safety Information

### Electrical Installation

- Connection block: Push-in terminals for rigid or flexible conductors with a section of 1.5 mm<sup>2</sup> / max. 10 A
- Stripped length: 12 mm
- Polarity: Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the luminaire.
- Wiring diagram:



### Selection of automatic cut-outs for VS LED drivers

- Dimensioning automatic cut-outs  
High transient currents occur when an LED driver is switched on because the capacitors have to load. Ignition of LED modules occurs almost simultaneously. This also causes a simultaneous high demand for power. These high currents when the system is switched on put a strain on the automatic conductor cut-outs, which must be selected and dimensioned to suit.
- Release reaction  
The release reaction of the automatic conductor cut-outs comply with VDE 0641, part 11, for B, C characteristics. The values shown in the following tables are for guidance purposes only and are subject to system-dependent change.
- No. of LED drivers  
The maximum number of VS LED drivers applies to cases where the devices are switched on simultaneously. Specifications apply to single-pole fuses. The number of permissible drivers must be reduced by 20% for multi-pole fuses. The considered circuit impedance equals 400 mΩ (approx. 20 m [2.5 mm<sup>2</sup>] of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Type	Automatic cut-out type and possible no. of VS drivers pcs.					
Automatic cut-out type	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A
WP-600-C-xx-xxx	15	18	24	25	32	40
WP-1200-C-xx-xxx	15	18	24	25	32	40
WP-1500-C-xx-xxx	15	18	24	25	32	40
WP-1200-P-xx-xxx	15	18	24	25	32	40
WP-1500-P-xx-xxx	15	18	24	25	32	40

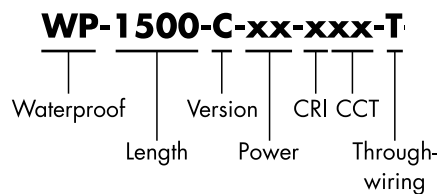
- To limit capacitive inrush currents the current carrying capacity of each circuit breaker (fuse) can be increased by a factor of 2.5 with the help of our ESB (Ref. No.: 149820, 149821, 149822) inrush current limiters.

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### Logistic Details

Type	Packaging dimensions LxVxH (mm)	Packaging unit weight		MOQ/ Euro pallet pcs.
		pcs.	kg	
WP-600-C-xx-xxx	790x85x75	1	1.1	342
WP-1200-C-xx-xxx	1330x85x75	1	1.9	171
WP-1500-C-xx-xxx	1610x85x75	1	2.3	171
WP-1200-P-xx-xxx	1330x85x75	1	1.9	171
WP-1500-P-xx-xxx	1610x85x75	1	2.3	171

### Product Code Description



## Safety and Installation Instructions

### General safety and installation Instructions for luminaires

The following instructions must be observed. Non-observance can result in personal injury and damage to property or can damage both luminaires and control gear. In such cases, the manufacturer's warranty as well as liability will be invalidated.

#### General Instructions

- Please read these instructions prior to installation/commissioning and keep them safe for future use.
- Any improper use or modification will invalidate the manufacturer's warranty and liability as well as any warranty claims.
- The luminaire contains integrated and non-exchangeable LED light sources. The light source of this luminaire cannot be replaced. When the light source has reached the end of its service life, the entire luminaire must be replaced.
- Care must be taken to ensure the luminaire is operated only using the supplied Vossloh-Schwabe control gear and accessories or using an alternative brand of approved control gear.
- If the luminaire is marked with SELV, only control gear with SELV characteristics may be used.
- Children must be prevented from playing with or near the luminaire.

#### Installation and operating instructions

- Installation of this luminaire may be undertaken only by authorised and suitably trained staff in accordance with any country-specific regulations.
- Installation must be carried out only after disconnecting the device from mains voltage, i.e. in a voltage-free state.
- Depending on the site of operation, the degree of protection (IPxx) will have to be observed during installation.
- Please ensure that the correct supply voltage is applied by checking it against the voltage requirements of the luminaire and the driver.
- For the purpose of commissioning, please ensure the correct polarity of the connecting leads. Incorrect polarity can destroy the modules.
- For trouble-free operation, it is important to ensure that the permissible ambient temperature range ( $t_a$ ) as stipulated in the data-sheet is not exceeded. Exposure to sunlight can increase the ambient temperature.
- Only ever operate the luminaire with all protective covers in place.
- Given functional problems, please contact your Vossloh-Schwabe representative. Should the power supply cable be damaged, please scrap the luminaire and/or contact your VS representative.
- On contact with moisture or condensation, any resulting corrosive damage will not be recognised as a product flaw or manufacturer's defect.
- Connecting luminaires (LED modules) to supply units that are already connected to the mains can result in long-term damage. Secondary switching is not permissible.
- Touchable luminaire parts can reach high temperatures (risk of burning/injury.)
- Highly flammable materials (e.g. cladding or insulation material) must be kept away from the luminaire.

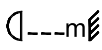
- Please ensure protective ESD (electrostatic discharge) measures are taken when handling and installing the luminaire – see VS "ESD Protection" application notes.

#### Cleaning instructions

- Depending on the conditions on site, the luminaire must be cleaned on a regular basis.
- Never use any flammable, abrasive, harsh or corrosive cleaning liquids.
- Prior to cleaning the luminaire, please ensure it is disconnected from the mains and is given time to cool down.
- Once it has cooled down, the luminaire can be cleaned with a damp cloth.
- Let the luminaire dry fully before switching it back on.

Answers to technical questions can be found on our website at [www.vossloh-schwabe.com](http://www.vossloh-schwabe.com) or ask your Vossloh-Schwabe representative.

#### Safety symbols

 Specifies the minimum clearance to flammable materials in the direction of radiation.



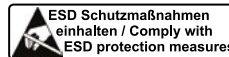
Indoor operation



Please ensure that the way the luminaire is positioned means there is no reason to expect anyone could look into it for a longer period of time with less clearance than stated in the datasheet.



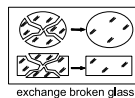
Caution: risk of electric shock.



Caution: components with a risk of electrostatic charge.



Luminaire/voltage supply unit must not be covered with any thermally insulating materials or similar.



Any cover with damage must be replaced.

#### Product guarantee

- 5 years
- The conditions for the Product Guarantee of the Vossloh-Schwabe Group shall apply as published on our homepage ([www.vossloh-schwabe.com](http://www.vossloh-schwabe.com)). We will be happy to send you these conditions upon request.

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