

# VS System 24 V

LED Line Flex AluLED Profiles LEDSpots 24 V Converters Blu2Light Constant-voltage Dimmer

# Vossloh-Schwabe

Vossloh-Schwabe is not merely a provider of top-quality system solutions for the lighting industry, but above all makes a competent and innovative contribution to setting market trends.

Employing approximately 1000 people in more than 20 countries, Vossloh-Schwabe is represented all over the world. VS can draw on extensive resources for R&D as well as for international expansion activities.

A highly motivated workforce, comprehensive market knowledge, profound industry expertise as well as eco-awareness and environmental responsibility show Vossloh-Schwabe to be a reliable partner for the provision of optimum and cost-effective lighting solutions. Vossloh-Schwabe's dedication to delivering superior quality is reflected in its ISO 9001 certification.



### CUSTOMISED SOLUTIONS

### Your project, our solution

We collaborate with our customers and pay attention to their needs in order to develop customised lighting solutions. Whether the task involves the realisation of a single LED module or the creation of a turnkey system, our advanced R&D departments ensure the wishes of our customers come true.

### R&D – Ideas take shape

Our R&D departments are constantly engaged in testing new materials and innovative technologies in order to offer cutting-edge solutions to create optimum lighting conditions. Using product ideas provided by our customers as a basis, our R&D teams design bespoke solutions that suit the given requirements, that can later be finessed into detailed features and ultimately guide the implementation process to create the customised product.

# One stop, one shop – In-house creation of complete products

We offer complete solutions that are made entirely within the Vossloh-Schwabe Group using perfectly matched components with very high efficiency ratings.

### In-house photometric testing

All necessary photometric tests can be carried out at VS. Cutting-edge equipment is used to measure all optical, chromatic and radiometric values as well as to carry out thermal simulations. These kinds of thermal and optical simulations can help to gear the development of a lighting solution to suit the respective customer specific applications at a very early stage in the planning process. The continuous monitoring process during every single project development step allows us to ensure top quality standards.

### Know-how and global presence at your disposal

Using our experience and expertise, we carefully assist our customers – from first prototype production straight through to the final product. In addition, our consolidated production processes make for a highly flexible manufacturing service, enabling anything from just a few pieces right up to a mass production. Moreover, our widespread global presence reflects the importance we attach to staying close to both our customers and the market, which allows us to provide first-class customer and highly efficient logistics services.

### www.vossloh-schwabe.com

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for IP20 and IP67 applications



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**24 V converters** On/Off and dimmable versions for IP20 and IP67 applications



Blu2Light DigiLED 4CH

4-channel Bluetooth® constant-voltage dimmer



# **LED Line Flex SMD**

### Flexible linear LED module

For illuminating complex contours and for architectural lighting 24 V DC Voltage supply: soldered leads Connection: Divisible into individual steps without loss of function Beam angle: 120° Mounting: double-sided adhesive tape on the reverse side

### LED Line Flex SMD Advanced

FlexLED-4m-22K-4000lm

FlexLED-4m-25K-4000lm

FlexLED-4m-25K-4000lm

FlexLED-4m-27K-4800lm

571183 FlexLED-4m-40K-4800lm 4000 K

571571 FlexLED-5m-40K-800lm/m 4000 K

571225 FlexLED-5m-40K-900lm/m 4000 K

571203 FlexLED-5m-30K-450lm/m 3000 K

FlexLED-5m-40K-450lm/m

571185 FlexLED-4m-27K-4800lm

571186 FlexLED-4m-30K-4800lm

571240 FlexLED-4m-30K-4800lm

571219 FlexLED-4m-32K-4800lm

571190 FlexLED-4m-35K-4800lm

571187 FlexLED-4m-50K-4800lm

**571188** FlexLED-4m-65K-4800lm

571223 FlexLED-5m-30K-900lm/m

ESD protection: Total length:

Ref. No. Type

571184

571511

571189

571512

571205

up to 2 kV 4 or 5 m on roll



CCT /

2200 K

2500 K

2500 K

2700 K

2700 K

3000 K

3000 K BBL

3200 K BBL

3500 K

5000 K

6500 K

3000 K

4000 K

620 nm

465-475 nm

wave length lm/m

Dom.

at t<sub>p</sub> 25 °C

1060

1007

1100

1201

1320

1340

1340

1340

1350

1400

1400

1430

906

870

1025

464

544

\_

lm/W

94

86

98

103

117

120

120

120

110

125

124

127

114

109

129

106

124

\_



LED Line Flex SMD Advanced



25 °C 50 °C

W/m

10.1

10.1

10.1

11

10.1

10.1

101

10.1

101

10.1

10.1

10.1

7.6

7.6

7.6

4.1

4.1

7.04

12.7

W/m

11.3

11.3

11.3

11.6

11.3

11.3

113

11.3

113

11.3

11.3

11.3

8.0

8.0

8.0

4.4

4.4

Тур.

CRI

Ra

> 80

> 90

> 80

> 90

> 80

> 80

> 90

> 90 > 80

> 80

> 80

> 80

> 80

> 90

> 80

> 80

> 80

\_

Typ. luminous flux (lm/m) and efficiency (lm/W) Power at tp

lm/W

91

83

94

100

113

115

115

115

115

120

118

123

109

106

126

102

120

22

34.1

at t<sub>p</sub> 50 °C

lm/m

915

913

958

1090

1140

1160

1190

1190

1174

1200

1180

1230

824

954

420

496

1.52

433

800

### Feed-in connector

Max. permissible current: 3 A Lead length: 250 mm Ref. No.: 141578



**Flex-to-Flex connector** Max. permissible current: 3 A Ref. No.: 141579

Colour accuracy: 3 MacAdam | Tolerance for power and luminous flux: ± 10%

### LED Line Flex SMD Indoor

Total length: 5 m on roll Made in China

571510 FlexLED-4m-Blue

571515 FlexLED-4m-Red



	Ref. No.	Туре	CCT	Luminous	flux	LED quantity	Power
				min.	typ.		
				lm/m	lm/m	pcs./m	W/m
調	566965	WU-M-555-827	2700 K	740	820	42	6.5
	563465	WU-M-555-830	3000 K	765	850	42	6.5
	563466	WU-M-555-840	4000 K	800	890	42	6.5
	563467	WU-M-555-857	5700 K	810	900	42	6.5
	566966	WU-M-556-827	2700 K	1250	1380	70	10.8
	563468	WU-M-556-830	3000 K	1290	1430	70	10.8
	563469	WU-M-556-840	4000 K	1330	1480	70	10.8
	563471	WU-M-556-857	5700 K	1350	1500	70	10.8
	<u> </u>	0.14 4.1 1.7			0 1000		

Colour accuracy: 3 MacAdam | Tolerance for power and luminous flux: ± 10%

LED Line Flex SMD Indoor



### Feed-in connector

Max. permissible current: < 4 A Dimensions (LxWxH): 15x15.6x5 mm Lead length: 150 mm Ref. No.: 568121

Flex-to-Flex connector Dimensions (LxWxH): 16x15x5 mm Ref. No.: 568122



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# **LED Line Flex SMD**

### Flexible linear LED module

 For illuminating complex contours and for architectural lighting

 Voltage supply:
 24 V DC

 Connection:
 soldered leads

 Divisible into individual steps without loss of function

 Beam angle:
 120°

 Mounting:
 double-sided adhesive tape on the reverse side

### LED Line Flex SMD RGBW

Total length: Made in China

....

5 m on roll



# LED LINE FLEX



### LED Line Flex SMD RGBW



									MD.		The Address of the Ad				
	Ref. No.	Туре	Colour	Dom.	Dom. wave length / CCT			Typ. luminous flux			Typ. power*				
				Red	Green	Blue	White	Red	Green	Blue	White	Red	Green	Blue	White
				nm	nm	nm	Κ	lm	lm	lm	lm	$\sim$	$\mathbb{W}$	$\mathbb{W}$	$\mathbb{W}$
50	569825	WU-M-636-RGB+840	rgb(NW)	622	525	468	4000	695	1815	365	2420	23	23.5	18.7	23.3
	569826	WU-M-636-RGB+857	RGB(CW)	622	525	468	5700	695	1815	365	2420	23	23.5	18.7	23.3
ЬŚ	Colour accure	acy: 4 MacAdam (White)	Tolerance for	power a	nd luminc	us flux: ±	± 10%   3	* For tot	al length						

Feed-in connector

Max. permissible current: 3.5 A Lead length: 150 mm **Ref. No.: 570456** 

### Flex-to-Flex bridge

Luminous flux

typ.

lm/m

900

1000

1000

min.

Max. permissible current: 3.5 A Lead length: 150 mm **Ref. No.: 570457** 

## Flex-to-Flex connector

Max. permissible current: 3.5 A Ref. No.: 570458

LED Line Flex SMD IP67

### LED Line Flex SMD IP67

**IP67** 

Type

Total length: Made in China

Ref. No.

5 m on roll

CRI

80



LED quantity

pcs./m

60

60

60

Power

W/m

10

10

10

922 A B A
回轮。

 Im/m

 567891
 WU-M-616-830
 3000 K
 770

 567892
 WU-M-616-840
 4000 K
 850

 567893
 WU-M-616-857
 5000 K
 850

Colour accuracy: 3 MacAdam | Tolerance for power and luminous flux: ± 10%

CCT

### End caps and sealing glue

End caps for sealing the cut (in case the LEDLine Flex module has been shortened) Dimensions (LxWxH): 14x10x6 mm

Ref. No.: 568127 Ref. No.: 568128 Ref. No.: 568129 with holes for lead entry without holes RTV one component glue (50 g tube)

### **Recommended connector**

3M Scotchlok Outdoor connector UR2 Humidity resistant connector filled with sealant Strand diameter: 0.4-0.9 mm **Ref. No.: 534992** 





# **AluLED – Linear LED Profiles**

### Linear LED module in aluminium profile

 Optimal for applications in protected indoor or outdoor areas

 Voltage supply:
 24 V DC

 Connection:
 cables with pre-assembled connectors

 Maximum bridging current load: max. 3 A

 Cover:
 diffuse (IP20) / clear (IP67)

 Beam angle:
 120°

 Dimensions (LxWxH):
 320/920/1220x20x6 mm

 Mounting:
 incl. mounting clips (brackets) and screws

MADE IN GERMANY

incl. mounting clips (brackets) and screws CRI 80
3 SDCM
Guarantee
5 years
CE ROHS

### AluLED – White

Lumen maintenance:

L70/B20, > 50,000 hrs. at  $t_p/t_c = 50 \text{ °C}$ 

Ref. No.		CCT	Length	Power	Current	Luminous fl	UX
IP20	IP66/67					IP20	IP67
571145	561698	3000 K	320 mm	3.4 W	140 mA	230 lm	240 lm
on request	571160		520 mm	5.7 W	235 mA	380 lm	400 lm
571146	561699		920 mm	10.1 W	420 mA	690 lm	720 lm
571147	561700		1220 mm	13.5 W	560 mA	920 lm	960 lm
571133	571136	4000 K	320 mm	3.4 W	140 mA	250 lm	300 lm
on request	571161		520 mm	5.7 W	235 mA	400 lm	500 lm
571134	571137		920 mm	10.1 W	420 mA	750 lm	900 lm
571135	571138		1220 mm	13.5 W	560 mA	1000 lm	1200 lm
571152	571115	6000 K	320 mm	3.4 W	140 mA	260 lm	280 lm
on request	571162		520 mm	5.7 W	235 mA	427 lm	467 lm
571153	571116		920 mm	10.1 W	420 mA	780 lm	840 lm
571154	571117		1220 mm	13.5 W	560 mA	1040 lm	1120 lm

\* Production tolerance for luminous flux and power:  $\pm 10\%$ 











### EasyConnect cable

Max. permissible current: 3 A 2 strands

Ref. No.: 543426
Ref. No.: 543427
4 strands
Ref. No.: 543428

Ref. No.: 543428 Ref. No.: 543429

### Shrink caps

Ref. No.: 571150 Ref. No.: 571151

### Magnetic holder for AluLED Spring and magnet

Ref. No.: 143208

scope of supply: 2 pcs.

Feed-in, length: 25 cm AluLED-to-AluLED, length: 50 cm

Feed-in, length: 25 cm

clear

black

AluLED-to-AluLED, length: 50 cm





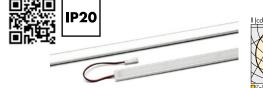
### AluLED-II-HLO - White

ESD protection: Lumen maintenance:

up to 2 kV L90/B10: > 50,000 hrs. at t<sub>p</sub>/t<sub>c</sub> = 65 °C L70/B10: > 50,000 hrs. at t<sub>p</sub>/t<sub>c</sub> = 80 °C

Ref. No.		CCT	Length	Power c	ıt	Current at		Luminous fl	UX
IP20	IP66/67			25 °C	50 °C	25 °C	50 °C	IP20	IP67
571291	571356	3000 K	320 mm	7 W	6.3 W	292 mA	262 mA	580 lm	603 lm
571292	571357		920 mm	21 W	18.9 W	876 mA	786 mA	1740 lm	1809 lm
571293	571358		1220 mm	28 W	25.2 W	1168 mA	1048 mA	2320 lm	2412 lm
571300	571350	4000 K	320 mm	7 W	6.3 W	292 mA	262 mA	720 lm	678 lm
571301	571352		920 mm	21 W	18.9 W	876 mA	786 mA	2160 lm	2034 lm
571302	571353		1220 mm	28 W	25.2 W	1168 mA	1048 mA	2880 lm	2712 lm

\* Production tolerance for luminous flux and power:  $\pm 10\%$ 









# **AluLED – Linear LED Profiles**

### Linear LED module in aluminium profile

Optimal for applications in protected indoor or outdoor areas 24 V DC Voltage supply: Connection: cables with pre-assembled connectors Maximum bridging current load: max. 3 A 120° Beam angle: 320/920/1220x20x6 mm Dimensions (LxWxH): incl. mounting clips (brackets) and screws Mounting: MADE IN Guarante C€ RoHS CR 3 SDCN

5



### AluLED – Tuneable White

GERMANY

Colour dynamic from 3000 K to 6000 K Cover: clear L90/B10: > 50,000 hrs. at  $t_p/t_c = 65$  °C Lumen maintenance: L70/B10: > 50,000 hrs. at  $t_p/t_c = 80 \text{ °C}$ 

80

Ref. No.		Length	Power at		Current at		Colour temperature (K) / luminous flux (lm)										
IP20	IP66/67		25 °C	50 °C	25 °C	50 °C	both cha	both channels 100%		both channels 100% o		oth channels 100% only warm white 100%		0%	only cool white		%
								IP20	IP67		IP20	IP67		IP20	IP67		
571282	571170	320 mm	3.4 W	3.1 W	143 mA	131 mA	4000 K	548 lm	616 lm	3000 K	254 lm	285 lm	6000 K	300 lm	338 lr		
571283	571171	920 mm	10.2 W	9.3 W	429 mA	393 mA	4000 K	1645 lm	1848 lm	3000 K	761 lm	855 lm	6000 K	903 lm	1014 li		
571284	571172	1220 mm	13.6 W	12.4 W	572 mA	524 mA	4000 K	2192 lm	2464 lm	3000 K	1015 lm	1140 lm	6000 K	1203 lm	1352 li		

\* Production tolerance for luminous flux and power:  $\pm 10\%$ 











AluLED - RGB

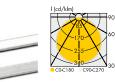
Cover:

diffuse (IP20) / clear (IP67)

Ref. No.		Length	Power	Current	Dom. wave leng	Dom. wave length			Luminous flux					
IP20	IP66/67				Red	Green	Blue	Red		Green		Blue		
								IP20	IP67	IP20	IP67	IP20	IP67	
571139	571130	320 mm	3.4 W	140 mA	620-630 nm	520-535 nm	465-475 nm	18 lm	25 lm	53 lm	75 lm	11 lm	15 lm	
571140	571131	920 mm	10.1 W	420 mA	620-630 nm	520-535 nm	465-475 nm	53 lm	75 lm	158 lm	225 lm	32 lm	45 lm	
571141	571132	1220 mm	13.5 W	560 mA	620-630 nm	520-535 nm	465-475 nm	70 lm	100 lm	210 lm	300 lm	42 lm	60 lm	

\* Production tolerance for luminous flux and power:  $\pm 10\%$ 











AluLED – Blue Cover:

IP20

diffuse (IP20) / clear (IP67)

Ref. No.		Length	Power		Current	Dom. wave length	Luminous flux	
IP20	IP67		IP20	IP67		Blue	IP20	IP67
571157	571120	1220 mm	8.4 W	13.5 W	560 mA	465-475 nm	42 lm	240 lm

\* Production tolerance for luminous flux and power: ±10%









# FlatLine and SoftLine 24 V DC

### **Complete LEDSpot equipped with metal frame** and connection leads

Flatline: SoftLine:

metal frame, silver, silver brushed or white, and thermoplastic heat sink For cut-out: Ø 56 mm

Fastening: Degree of protection: Voltage supply:

snap-in clips for easy mounting IP20 (front part FlatLine: IP44 / SoftLine: IP40) 24 V DC

metal frame, silver, and connection plug



### FlatLine 24 V DC

Snap-in clips made of plastics for mounting on metal sheets (metal springs for mounting into wooden shelves on request) Service life time: 50,000 hrs. (L70/B50) at t<sub>c</sub>/t<sub>p</sub> 70 °C

Ref. No.	Туре	Frame	CCT	Beam	Тур.	Max.	Energy
		colour		angle	lumen*	power	efficiency
564252	LCH043	silver	28703200 K	60°	140 lm	1.6 W	A++
564253	LCH043	silver	38504250 K	60°	140 lm	1.6 W	A++



Emission data at tj = 80 °C | \* Measurement tolerance of luminous flux:  $\pm$  5%

### **Connection lead for FlatLine**

Leads: Cu tinned, stranded conductors AWG22, PVC-insulation, lengths: 250 mm

Ref. No.: 561868

### SoftLine 24 V DC

Metal springs for mounting into wooden shelves Service life time: 50,000 hrs. (L70/B50) at t\_c/t\_p 75  $^{\circ}\text{C}$ 



	Ref. No.	Туре	Frame	CCT	Beam	Тур.	Max.	Energy
			colour		angle	lumen*	power	efficiency
	563861	LCH032	silver	25802870 K	90°	205 lm	2.8 W	A++
	563863	LCH032	silver	28703220 K	90°	225 lm	2.8 W	A++
Ξ1	563865	LCH032	silver	37104260 K	90°	225 lm	2.8 W	A++
-2	563862	LCH032	white	25802870 K	90°	205 lm	2.8 W	A++
	563864	LCH032	white	28703220 K	90°	225 lm	2.8 W	A++
	563866	LCH032	white	37104260 K	90°	225 lm	2.8 W	A++
	563336	LCH032	silver brushed	25802870 K	90°	205 lm	2.8 W	A++
	562742	LCH032	silver brushed	28703220 K	90°	225 lm	2.8 W	A++
	562885	LCH032	silver brushed	37104260 K	90°	225 lm	2.8 W	A++

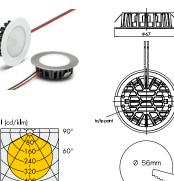
Emission data at t<sub>i</sub> = 80 °C | \* Measurement tolerance of luminous flux:  $\pm$  5%



FlatLine



SoftLine

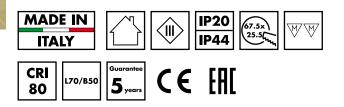


# Revo 24 V DC

### Complete LEDSpot equipped with optics, frame and connection leads

LCH-037: LCH-038: For cut-out: Fastening: Degree of protection: Voltage supply:

plastics frame, white metal frame, silver 67.5x25x5 mm snap-in clips for easy mounting IP20 (front part LCH-037: IP44) 24 V DC



### Revo 24 V DC

Snap-in clips made of plastics for mounting on metal sheets Service life time: 50,000 hrs. (L70/B50) at t\_c/t\_p 75  $^\circ\text{C}$ 

Ref. No.	Туре	Frame colour	CCT	Beam angle	Typ. lumen*	Max. power	Energy efficiency
566617	LCH-037	white	28703220 K	60°	130 lm	1.3 W	A++
566619	LCH-038	silver	28703220 K	60°	130 lm	1.3 W	A++
 auf Anfr.	LCH-038	silver	37104260 K	60°	140 lm	1.3 W	A++

\* Production tolerance for luminous flux and power:  $\pm 10\%$ 

### **Connection lead for Revo**

Leads: Cu tinned, stranded conductors AWG22, PVC-insulation, lengths: 250 mm

Ref. No.: 561868



# LED SPOTS

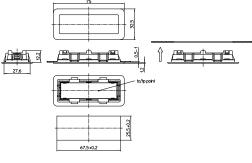




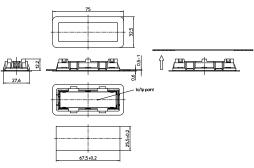








LCH-038



# **LED Operating Devices**

Please ensure you choose the correct LED operating devices for the chosen LED luminaire and that the respective output parameters (current, voltage, wattage) are correct.

You will find more information about our LED operating devices on our website: **www.vossloh-schwabe.com** 

### Constant-voltage converters 24 V

Mains voltage: 220-240 V ±10% Mains frequency: 50-60 Hz Voltage supply: 24 V ±10%

		Guarantee
24 V	SELV	5 years

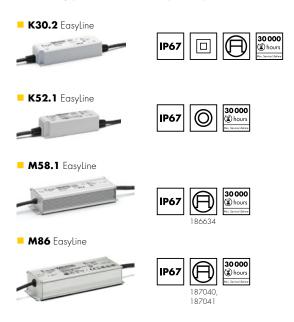


Max.	Ref. No.	Output	Version	IP	Casing	Dimensions
power		current DC			Ŭ	LxWxH
20 W	186640	0-850 mA	ON/OFF	IP20	K39.2	184x37x33 mm
20 W	186129	0-850 mA	ON/OFF	IP20	K62	182x42x18 mm
20 W	187036	0-833 mA	ON/OFF	IP20	K53	153x41x32 mm
30 W	186624	0-1250 mA	ON/OFF	IP20	K53	153x41x32 mm
30 W	186633	0-1250 mA	ON/OFF	IP67	K52.1	131x42x34 mm
40 W	187037	0-1670 mA	ON/OFF	IP20	K81	210x40x30 mm
60 W	186625	0-2500 mA	ON/OFF	IP20	K55.1	180x52x30 mm
60 W	187038	0-2500 mA	ON/OFF	IP20	K82	250x40x30 mm
70 W	187058	0-2900 mA	DALI2, 1-10 V	IP20	M10*	359x30x21 mm
75 W	186626	0-3125 mA	ON/OFF	IP20	K55.1	180x52x30 mm
75 W	186432	0-3125 mA	ON/OFF	IP67	K30.2	155x49x32 mm
100 W	187039	0-4000 mA	ON/OFF	IP20	K83	310x40x36 mm
100 W	186433	0-4200 mA	ON/OFF	IP67	M58.1	206x68.6x37 mm
120 W	186627	0-5000 mA	ON/OFF	IP20	K60	300x40x30 mm
150 W	186434	0-6250 mA	ON/OFF	IP67	M58.1	206x68.6x37 mm
180 W	186717	0-7500 mA	ON/OFF	IP20	K61	345x50x35 mm
200 W	186634	0-8300 mA	ON/OFF	IP67	M58.1	206x68.6x37 mm
250 W	187040	0-10400 mA	ON/OFF	IP67	M86	258x86.2x47.2 mm
320 W	187041	0-13300 mA	ON/OFF	IP67	M86	258x86.2x47.2 mm

12 V

48 V

\* With cord grip 187073 suitable for independent operation.



# 24 V CONVERTERS













**50 000** (2) hours

IP20

IP20		$\square$			
50 000 (🖹) hours	MAD	E IN			
(2) hours Min. Service Lifetime	GERMANY				

IP20 🔲 (	
----------	--





IP20

IP20

**30 000** (2) hours

30 000

(🖹) hours











Cord grip for M10 Ref. No.: 187073

**K61** EasyLine



# Blu2Light DigiLED 4CH

### Innovative 4-channel Bluetooth® constant-voltage dimmer for LED modules from 12–48 V DC

For luminaire installation and independent mounting with cord grip						
Output channels: 4 channels, individually controllable						
Configuration: via LINA Connect App						
Control: via LINA Touch App						
Comfortable adjustment	of RGBW light colours.					
Casing: plastics, white						
Weight: 41 g						
Connection: push-in terminals: 0.5-1.5 mm² (primary, secondo						
	0.2-0.5 mm² (secondary -)					
Fastening: M3 screws						



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	Ref. No.	Communication	Frequency	HF output	Power consumption in		Input voltage	Dimensions
			range	power	standby	operation	range*	LxWxH
	186839	Blu2Light mesh network	2402-2480 MHz	< 10 mW EIRP	0.3 W	max. 115 W	11-50 V DC	158x22x19 mm
_		155						

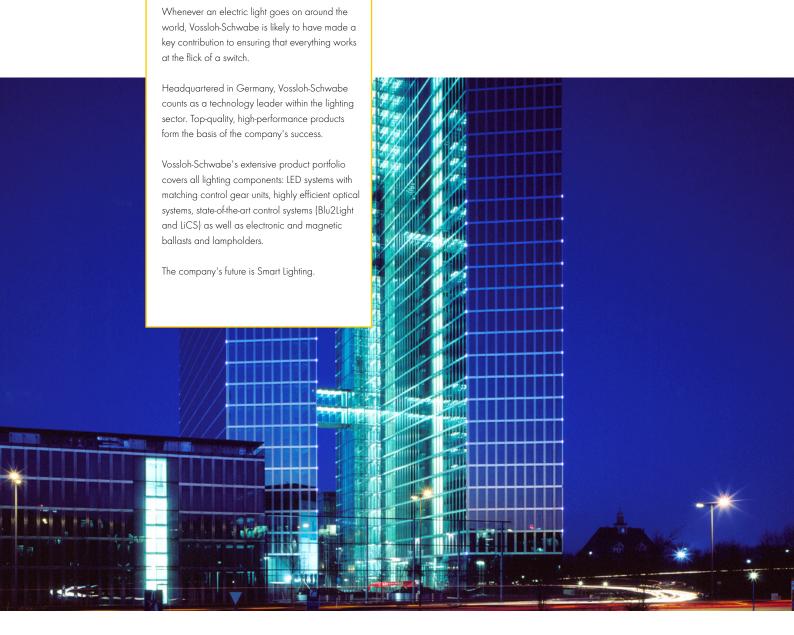


		range	power	standby	operation	range*	LxV
<sup>186839</sup>	Blu2Light mesh network	2402-2480 MHz	< 10 mVV EIRP	0.3 W	max. 115 W	11-50 V DC	15
* dependir	ng on LED module						
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Operating	Max. load	Max. load per channel at				
channels	12 V	12 V 24 V				
4 channels	1.2 A	1.2 A	0.6 A			
1 channel	4.8 A	4.8 A	2.4 A			

Min. dimming level (PWM): 1250 Hz (flicker-free)





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