LEDSpots for Residential and Furniture Lighting – Halogen Replacement

LED SPOTs FLATLINE

CONSTANT-VOLTAGE AND CONSTANT-CURRENT





CONVENIENT LED TECHNOLOGY

As the perfect replacement for halogen spots, these LEDSpots are ideal for use in furniture and shelves.

The constant-voltage supply offers an easy and simple connection system. The current-driven version offers the highest performance. FlatLine LEDSpots have an homogeneous light distribution, and have a very low built-in height with only 14 mm.

Complete LEDSpots with frame

- Replacement for Halogen lamps 20-35 W
- Flat LED spot with frame based on SMD modules
- For built-in into cooker hoods and wooden shelves

Typical applications for LEDSpots

- Replacement of residential spots with G4 lamps
- Furniture lighting
- Marking paths, stairs, etc.
- Retail lighting

LEDSpot FlatLine 24 V DC

Complete LEDSpot equipped with heat sink, leads and metal frame

Technical notes

Constant voltage: 24 V DC Metal frame, round For cut-out: Ø 56 mm

LEDSpot with 6 LEDs (LCH043)

Beam angle: 60° With plug

Snap-in clips or springs for easy installation

Degree of protection: IP20

(front part: IP44)

Allowed ambient temperature:

0 to 35 °C

Allowed storage temperature: -30 to 60 °C

Lumen maintenance L70/B50: $50,000 \text{ hrs.} (t_c = 70 ^{\circ}\text{C})$

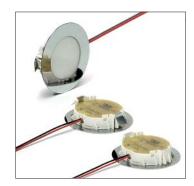
Weight: 40 g

Packaging unit: 45 pcs.

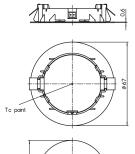
Cable set

Length: 250 mm Ref. No.: 561868

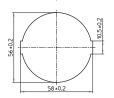




Metal snap-in springs

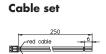






Plastic snap-in clips





Туре	Description	Ref. No.		Colour	Correlated	Max. power	Тур.	Тур.	Light intensity	Energy
		with metal	with plastic		colour temperature	consumption	luminous flux*	CRI	at 24 V	efficiency
		clips	clips		K	W	lm	Ra	Candela	at 24 V
LCH-043 - 6 LEDs										
LCH043	Flat 2835 3000K bin min P9	on request	564252	warm white	28703200	1.6	140	80	55	A++
LCH043	Flat 2835 4000K bin min P9	on request	564253	neutral white	38504250	1.6	140	80	55	A++

Emission data at $t_i = 80$ °C | * Measurement tolerance of luminous flux: $\pm 5\%$ | Further colour temperatures on request

LED constant-voltage converters 24 V

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

Capacity range	Mains voltage	Output current	Ref. No.	Version	Max. service	Service	Connection	Dimensions
	50-60 Hz				life time	life time		LxWxH
W	V ±10 %	А			hrs.	at °C		mm
IP20								
20	220–240	0-0.85	186129	ComfortLine	100.000	65	Screw terminals	182x42x18
30	220-240	0-1.25	186624	EasyLine	50.000	70	Screw terminals	153x41.4x32
60	220-240	0-2.5	186625	EasyLine	50.000	75	Screw terminals	180x52x30
75	220-240	0-3.125	186626	EasyLine	50.000	80	Screw terminals	180x52x30
120	220-240	0–5	186627	EasyLine	50.000	80	Screw terminals	300x40x30
IP67								
30	220-240	0-1.25	186633	EasyLine	50.000	70	Preassembled leads	131x42x34
75	220-240	0-3.125	186432	EasyLine	50.000	70	Preassembled leads	155x49x32
100	220-240	0-4.2	186433	EasyLine	50.000	70	Preassembled leads	206x68.6x37
150	220–240	0-6.25	186434	EasyLine	50.000	70	Preassembled leads	206x68.6x37

Please ensure you choose the correct LED driver for the module in question and that the respective output parameters (current, voltage, wattage) are correct.



LEDSpot FlatLine 12 V DC

Complete LEDSpot equipped with heat sink, leads and metal frame

Technical notes

Constant voltage: 12 V DC Metal frame, round For cut-out: Ø 56 mm

LEDSpot with 6 LEDs (LCH028)

Beam angle: 60°

With plug

Snap-in clips or springs for easy installation

Degree of protection: IP20

(front part: IP44)

Allowed ambient temperature:

0 to 35 °C

Allowed storage temperature: -30 to 60 °C

Lumen maintenance L70/B50:

 $50,000 \text{ hrs.} (t_c = 70 \, ^{\circ}\text{C})$

Weight: 40 g

Packaging unit: 45 pcs.

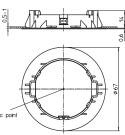
Cable set

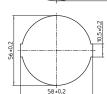
Length: 250 mm Ref. No.: 561868



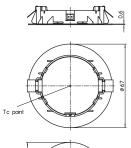


Plastic snap-in clips





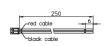
Metal snap-in springs





60° 30° FlatLine 12 V - 3000 K

Cable set



Туре	Description	Ref. No.		Colour	Correlated	Max. power	Тур.	Тур.	Light intensity	Energy
		with metal	with plastic		colour temperature	consumption	luminous flux*	CRI	at 24 V	efficiency
		clips	clips		K	W	lm	Ra	Candela	at 24 V
LCH-028	LCH-028 - 6 LEDs									
LCH028	Flat 2835 3000K bin min P9	561588	561589	warm white	28703200	1,4	110	80	45	A++
LCH028	Flat 2835 4000K bin min P9	561590	561591	neutral white	38504250	1,4	110	80	45	A++

Emission data at $t_i = 80$ °C | * Measurement tolerance of luminous flux: $\pm 5\%$ | Further colour temperatures on request

LED constant-voltage converters 12 V

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

Capacity range	Mains voltage	Output current	Ref. No.	Version	Max. service	Service	Connection	Dimensions
	50-60 Hz				life time	life time		LxWxH
W	V ±10 %	А			hrs.	at °C		mm
IP20								
6	220-240	0-0.5	186412	EasyLine	50.000	55	Preassembled leads	81.6x42,5x23
12	220-240	0-1	186204	ComfortLine	100.000	65	Screw terminals	103.5x36x22
20	220-240	0-1.68	186620	EasyLine	50.000	65	Screw terminals	123x45x19
60	220-240	0–5	186621	EasyLine	50.000	70 / 80	Screw terminals	180x52x30
75	220-240	0-6.25	186622	EasyLine	50.000	<i>7</i> 5	Screw terminals	180x52x30
100	220-240	0-8.4	186623	EasyLine	50.000	70 / 80	Screw terminals	300x40x30
IP67								
30	220-240	0-2.5	186628	EasyLine	50.000	70	Preassembled leads	131x42x34
75	220-240	0-6.25	186629	EasyLine	50.000	<i>7</i> 0	Preassembled leads	155x50x32
100	220-240	0-8.34	186630	EasyLine	50.000	70	Preassembled leads	206x68.6x37
150	220-240	0-12.5	186631	EasyLine	50.000	70	Preassembled leads	206x68.6x37

Please ensure you choose the correct LED driver for the module in question and that the respective output parameters (current, voltage, wattage) are correct.



LEDSpot FlatLine 700 mA

Complete LEDSpot equipped with heat sink, leads and metal frame

Technical notes

Constant current: max. 700 mA

Metal frame, round For cut-out: \varnothing 56 mm

LEDSpot with 5 LEDs (LCH027)

Beam angle: 60°

With plug

Snap-in clips or springs for easy installation

Degree of protection: IP20

(front part: IP44)

Allowed ambient temperature:

0 to 35 °C

Allowed storage temperature: -30 to 60 °C

Lumen maintenance L70/B50:

 $50,000 \text{ hrs.} (t_c = 70 \, ^{\circ}\text{C})$

Weight: 40 g

Packaging unit: 45 pcs.

Cable set

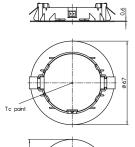
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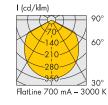


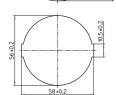




Metal snap-in springs







Plastic snap-in clips





Туре	Description	Ref. No.		Colour	Correlated	Typ. luminous flux* (lm), typ.	Тур.	Light intensity	Energy
		with metal	with plastic		colour	voltage* (U _{typ.}) and typ. power	CRI	at max. current	efficiency
		clips	clips		temperature (K)	consumption* (PeI) at 700 mA	Ra	Candela	at max. current
LCH-027	7 – 5 LEDs		$P_{el} = 2,2 \text{ W}; U_{typ.} = 3,1 \text{ V}$						
LCH027	Flat 757D 3000K bin min P9	561580	561581	warm white	3000	260	80	90	A++
LCH027	Flat 757D 4000K bin min P9	561582	561583	neutral white	4000	270	80	95	A++

Emission data at t_j = 80 °C | * Measurement tolerance of luminous flux, voltage, power consumption: ± 5% | Further colour temperatures on request

LED Driver 700 mA

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

Capacity range	Output current	Output voltage	Ref. No.	Version	Dimming	Max. service	Connection	Dimensions
	DC	DC				life time		LxWxH
W	mA	V				hrs. at 60 °C		mm
IP20								
17	700	2-25	186426	ComfortLine	_	100,000	Screw terminals	128x37x28

Please ensure you choose the correct LED driver for the module in question and that the respective output parameters (current, voltage, waitage) are correct

LEDSpot_FlatLine_EN - 4/6 - 04/2017

Surface Kit with Mounted LEDSpot

To use the surface kit for the LEDSpot FlatLine only the variant with plastic snap-in clips is required.

Metal frame to use LEDSpot as surface mounting spots Two single pole terminals for electrical connection inside the kit (frame + spot) Fixation by self tapping screws Unit: 90 pcs.

Ref. No.: 554843 Frame colour: silver



LEDSpot Sets FlatLine

On request, you will receive complete sets that contain the desired number of LEDSpots, a respective number of cable sets and the required LED drivers. Several examples of such sets can be seen to the right.

Contact us – we will gladly support you when it comes to dimensioning your lighting application.



Ref. No.	Sets includes										
	LEDSpot	Frame*		Driver	Lead set						
FlatLine Set	FlatLine Set - Current-driven										
561733	2 pieces FlatLine 700 mA, 3000 K, 60°, metal snap-in springs	round	silver	186348	inclusive						
FlatLine Set - Voltage-driven											
565227	2 pieces FlatLine 12 V, 3000 K, 60°, metal snap-in springs	round	silver	186620	inclusive						

^{*} Square shape or other colours on request



LEDSpot FlatLine – Installation Instruction

General safety information

- VS product may only be installed and commissioned by authorised and fully qualified staff.
- These instructions must be carefully read before installing and commissioning the system, as this is the only way to ensure safe and correct handling.
- An external converter in 12 V DC or 24 V DC or an external constant-current driver of max. 700 mA is required.
- Before any work is carried out on the equipment, it must be disconnected from the mains.
- All valid safety and accident-prevention regulations must be observed.
- The products should never be inexpertly opened. Repairs may only be undertaken by the manufacturer.
- Dimming: The dimming characteristics of the installed converter have to be observed
- The photo biological safety of the LED modules is classified into risk groups in accordance with EN 62471: 2008 and IEC TR 62778: risk group 1.

See drawing and cut out for each product on previous pages

Built-in

Correct position

