LEDSpots ACTIVE PLUS

NEW MODULAR LED ENGINES FOR MULTIPLE OPTICS CONFIGURATIONS

One of the main characteristics of this LED engines is their flexibility. The modularity of these LED engines allows you to combine different lenses and reflectors in order to get the result you expect.

Moreover, with its easy to fit technology you connect optics or reflectores in a blink of an eye – just click it in.

Typical applications for LEDSpots

Integration in luminaires

- Residential lighting
- Retail lighting
- Hospitality lighting

LIGHTING SOLUTIONS

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LED Engines for Active PLUS and Evolve 50

LEDSpot engine equipped with LED module, holder, thermal pad, heat sink and leads but without reflector or optics

LEDSpot Engine S123 & S124

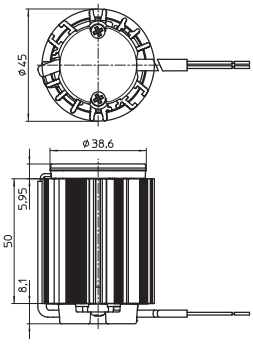
LEDSpot Engine 7.2 & 9.2

Technical notes

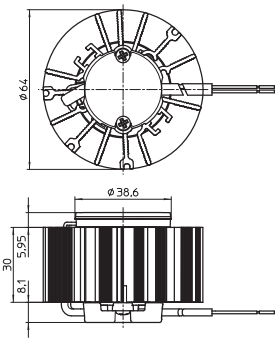
For reflectors PLUS and optics Evolve
Optics fixation: click-in
Heat sink material: aluminium
Lumen maintenance S123/S124:
L90/B10; 50,000 hrs. at 80 °C (350 mA)
Max. operating temperature at t_p point: 110 °C at 350 mA
Lumen maintenance 7.2/9.2:
L90/B20; 50,000 hrs. at 80 °C (500 mA)
Max. operating temperature at t_p point: 100 °C at 500 mA
Temperature depends on installation situation and has to be checked by the luminaire manufacturer.
Colour accuracy initially: 2 SDCM (S123/S124)
3 SDCM (7.2/9.2)
Leads: Cu tinned, stranded conductors 0.5 mm², length: 200 mm, stripped lead ends (with plug on request)
With integrated cord grip

Type	Weight g	Packaging unit (pcs.)
Engine S123/S124 300 mA	100	45
Engine S123/S124 350 mA	120	28
Engine 9.2	100	45
Engine 7.2	80	90
Engine Halo	140	28

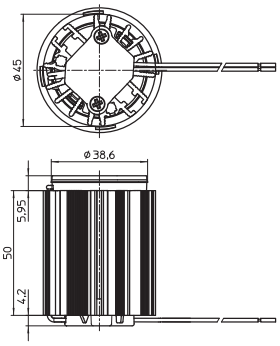
A – Engine S123/S124



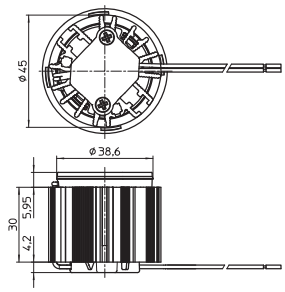
B – Engine S123/S124



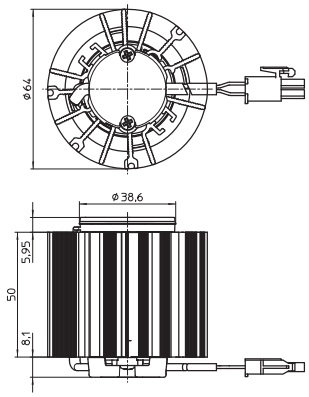
C – Engine 9.2



D – Engine 7.2



E – Engine Halo



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LED Engines for Active PLUS and Evolve 50

Electrical characteristics

Type	14 mA		250 mA		300 mA		350 mA		500 mA	
	P_{el} (W)	V_f (V)	P_{el} (W)	V_f (V)	P_{el} (W)	V_f (V)	P_{el} (W)	V_f (V)	P_{el} (W)	V_f (V)
Engine S123	–	–	8.7	34.8	10.6	35.3	12.5	35.8	–	–
Engine S124	–	–	8.4	33.7	10.3	34.2	12.1	34.7	–	–
Engine 9.2	–	–	4.1	16.5	5.0	16.7	6.1	17.3	8.9	17.85
Engine 7.2	–	–	4.1	16.5	5.0	16.7	6.1	17.3	–	–
Engine Halo	0.4	26.9	–	–	–	–	11.3	33.8	–	–

Voltage and power tolerance: ± 10%

Optical characteristics

at t_p 70 °C

Type	Ref. No.	Colour	Correlated colour temperature	Typ. luminous flux and efficiency at 250 mA		300 mA		CRI	Energy efficiency at max. current
			K	lm	lm/W	lm	lm/W	R_a	
LEDSpot Engine S123/S124 up to 300 mA – Drawing A									
Engine S123 300mA	**567043**	warm white	2700	890	102	1035	98	95	A+
Engine S124 300mA	**567044**	warm white	3000	1000	119	1180	115	95	A++
Engine S124 300mA	**567045**	neutral white	4000	1105	132	1300	126	95	A++

Production tolerance of luminous flux and efficiency: ± 10%

Type	Ref. No.	Colour	Correlated colour temperature	Typ. luminous flux and efficiency at 250 mA		300 mA		350 mA		CRI	Energy efficiency at max. current
			K	lm	lm/W	lm	lm/W	lm	lm/W	R_a	
LEDSpot Engine S123/S124 up to 350 mA – Drawing B											
Engine S123 350mA	**567051**	warm white	2700	890	102	1035	98	1175	94	95	A+
Engine S124 350mA	**567052**	warm white	3000	1000	119	1180	115	1355	112	95	A+
Engine S124 350mA	**567053**	neutral white	4000	1105	132	1300	126	1500	124	95	A+

Production tolerance of luminous flux and efficiency: ± 10%

Type	Ref. No.	Colour	Correlated colour temperature	Typ. luminous flux and efficiency at 350 mA		500 mA		CRI	Energy efficiency at max. current
			K	lm	lm/W	lm	lm/W	R_a	
LEDSpot Engine 9.2 – Drawing C									
Engine 9.2 500mA	**567038**	warm white	2700	775	127	1070	120	80	A++
Engine 9.2 500mA	**567040**	warm white	3000	805	132	1120	126	80	A++
Engine 9.2 500mA	**567041**	neutral white	4000	835	137	1160	130	80	A++
LEDSpot Engine 7.2 – Drawing D									
Engine 7.2 350mA	**567032**	warm white	2700	775	127	–	–	80	A++
Engine 7.2 350mA	**567033**	warm white	3000	805	132	–	–	80	A++
Engine 7.2 350mA	**567034**	neutral white	4000	835	137	–	–	80	A++

Production tolerance of luminous flux and efficiency: ± 10%

Type	Ref. No.	Colour	Correlated colour temperature	Typ. luminous flux and efficiency at 14 mA		350 mA		CRI	Energy efficiency at max. current
			K	lm	lm/W	lm	lm/W	R_a	
LEDSpot Engine Halo – Drawing E									
Engine Halo 350mA	**566659**	warm white	3000 –> 1800	28	70	1030	91	95	A+

Production tolerance of luminous flux and efficiency: ± 10%

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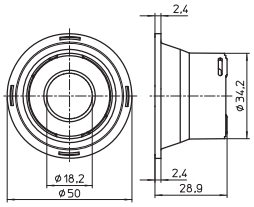
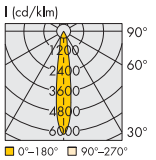
Reflectors PLUS for LED Engines

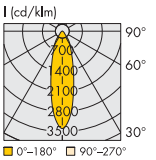
Technical notes
For click-in fixation on holders Easy
Diameter: 50 mm
Material: PC
Operating temperature: –40 to 110 °C
Storage temperature: –40 to 60 °C
Packaging units: 30 Pcs.



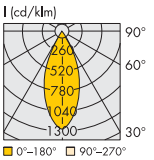
Ref. No.	For LED modules	Beam angle (°)	Cover	Optical efficiency (%)	Weight g
603685	S124, S123, 9.2, 7.2	16	Clear	87	10
603687	S124, S123, 9.2, 7.2	24	Clear	86	10
603689	S124, S123, 9.2, 7.2	40	Clear	85	10
603686	S124, S123, 9.2, 7.2, Halo	19	Frost	86	10
603688	S124, S123, 9.2, 7.2, Halo	26	Frost	85	10
603690	S124, S123, 9.2, 7.2, Halo	42	Frost	84	10



16°



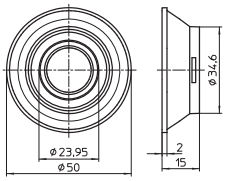
24°



40°

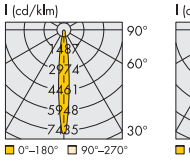
Optics Evolve 50 for LED Engines

Technical notes
For click-in fixation on holders Easy
Diameter: 50 mm
Material: PC
Operating temperature: –40 to 110 °C
Storage temperature: –40 to 60 °C
Packaging units: 30 Pcs.

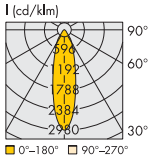


Ref. No.	For LED modules	Beam angle (°)	Cover	Optical efficiency (%)	Weight g
603672	S124, S123, 9.2, 7.2, Halo*	14	–	87	15
603673	S124, S123, 9.2, 7.2, Halo*	25	–	86	15
603674	S124, S123, 9.2, 7.2, Halo*	34	–	89	15

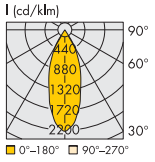
* In addition with mixing chamber



14°

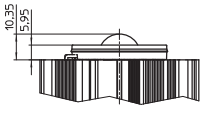


25°

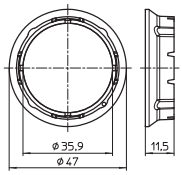


34°

***Mixing Chamber for Halo**
Material: PC
Fixation: click-in
Ref. No.: 604024



Flange Evolve
To reduce light leakage (optional)
Material: PBT, black
Ref. No.: 603681



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Active LUGA S124/S123 PLUS


A – up to 300 mA


B – up to 350 mA

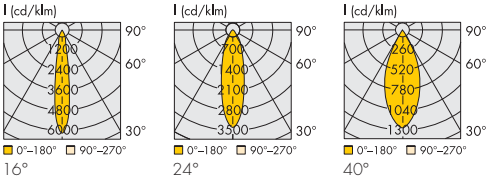
Technical notes

Reflector: Ø 50 mm, heat sink material: aluminium
Lumen maintenance: L90/B10; 50,000 hrs. 80 °C (350 mA)
Max. operating temperature at t_p point: 110 °C at 350 mA
Temperature depends on installation situation and has to be checked by the luminaire manufacturer.
Colour accuracy initially: 2 SDCM
Plastic clear cover to protect reflector (opaque cover on request)
Leads: Cu tinned, stranded conductors 0.5 mm², length: 200 mm, stripped lead ends (with plug on request)
With integrated cord grip
Weight: 145/150 g (heat sink Ø 45 mm / Ø 64 mm)
Packaging unit: 45/24 pcs. (heat sink Ø 45 mm / Ø 64 mm)

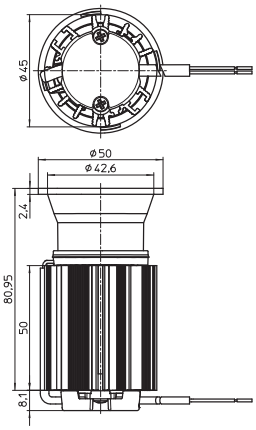
Electrical characteristics

Type	250 mA		300 mA		350 mA	
	P_{el} (W)	Vf (V)	P_{el} (W)	Vf (V)	P_{el} (W)	Vf (V)
S123	8.7	34.8	10.6	35.3	12.5	35.8
S124	8.4	33.7	10.3	34.2	12.1	34.7

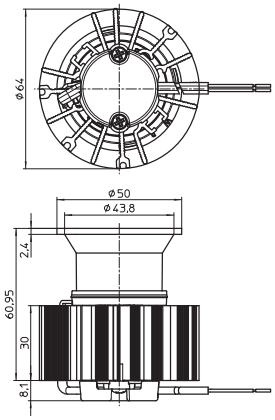
Voltage and power tolerance: ± 10%



A – up to 300 mA



B – up to 350 mA



Type	Ref. No.	Colour	Correlated colour temp. K	Typ. luminous flux and efficiency at 250 mA lm	250 mA lm/W	300 mA lm	300 mA lm/W	350 mA lm	350 mA lm/W	Light intensity at max. current Candela	Beam angle °	CRI R_a	Energy efficiency at max. current
Warm white – 2700 K – Drawing A													
Active S123 PLUS 27K	**567163**	warm white	2700	785	90	915	86	–	–	5530	16	95	A+
Active S123 PLUS 27K	**567164**	warm white	2700	775	89	905	87	–	–	3130	24	95	A+
Active S123 PLUS 27K	**567165**	warm white	2700	765	88	895	87	–	–	1130	40	95	A+
Warm white – 3000 K – Drawing A													
Active S124 PLUS 30K	**567166**	warm white	3000	885	105	1045	100	–	–	6220	16	95	A+
Active S124 PLUS 30K	**567167**	warm white	3000	875	104	1030	102	–	–	3530	24	95	A+
Active S124 PLUS 30K	**567168**	warm white	3000	865	103	1020	102	–	–	1260	40	95	A+
Neutral white – 4000 K – Drawing A													
Active S124 PLUS 40K	**567169**	neutral white	4000	975	116	1150	112	–	–	6800	16	95	A+
Active S124 PLUS 40K	**567170**	neutral white	4000	965	115	1135	112	–	–	3850	24	95	A+
Active S124 PLUS 40K	**567171**	neutral white	4000	955	114	1120	108	–	–	1400	40	95	A+
Warm white – 2700 K – Drawing B													
Active S123 PLUS 27K	**567198**	warm white	2700	785	90	915	86	1035	83	6220	16	95	A+
Active S123 PLUS 27K	**567199**	warm white	2700	775	89	905	87	1025	82	3520	24	95	A+
Active S123 PLUS 27K	**567200**	warm white	2700	765	88	895	87	1010	81	1290	40	95	A+
Warm white – 3000 K – Drawing B													
Active S124 PLUS 30K	**567201**	warm white	3000	885	105	1045	100	1200	99	7100	16	95	A+
Active S124 PLUS 30K	**567202**	warm white	3000	875	104	1030	102	1185	98	4030	24	95	A+
Active S124 PLUS 30K	**567203**	warm white	3000	865	103	1020	102	1170	97	1460	40	95	A+
Neutral white – 4000 K – Drawing B													
Active S124 PLUS 40K	**567204**	neutral white	4000	975	116	1150	112	1325	110	7740	16	95	A+
Active S124 PLUS 40K	**567205**	neutral white	4000	965	115	1135	112	1305	108	4390	24	95	A+
Active S124 PLUS 40K	**567206**	neutral white	4000	955	114	1120	108	1295	107	1590	40	95	A+

Production tolerance of luminous flux and efficiency: ± 10%

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Active 9.2 & 7.2 PLUS

Active 9.2 PLUS

Active 7.2 PLUS

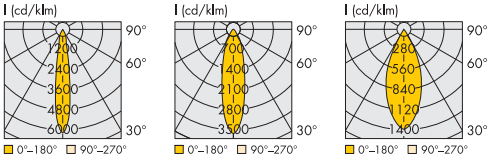
Technical notes

Reflector: Ø 50 mm, heat sink material: aluminium
Lumen maintenance: L90/B20; 50,000 hrs. 80 °C (500 mA)
Max. operating temperature at t_p point: 100 °C at 500 mA
Temperature depends on installation situation and
has to be checked by the luminaire manufacturer.
Colour accuracy initially: 3 SDCM
Plastic clear cover to protect reflector (opaque cover on request)
Leads: Cu tinned, stranded conductors 0.5 mm²,
length: 200 mm, stripped lead ends (with plug on request)
With integrated cord grip
Weight: 145/95 g (ActiveLine 9.2/7.2)
Packaging unit: 45 pcs.

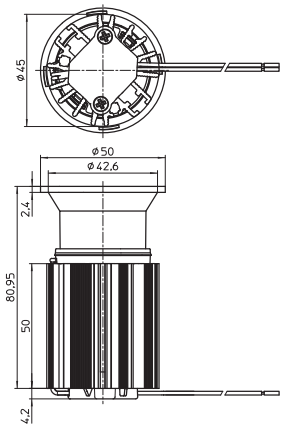
Electrical characteristics

Type	350 mA		500 mA	
	P_{el} (W)	V_f (V)	P_{el} (W)	V_f (V)
9.2	6.1	17.3	8.9	17.85
7.2	6.1	17.3	–	–

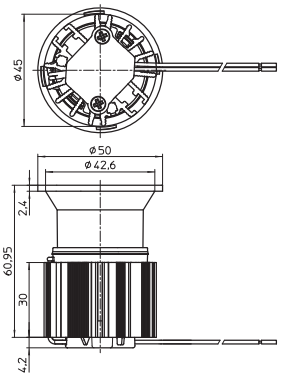
Voltage and power tolerance: ± 10%



A – Active 9.2 PLUS



B – Active 7.2 PLUS



Type	Ref. No.	Colour	Correlated colour temp. K	Typ. luminous flux and efficiency at 350 mA lm	lm/W	500 mA lm	lm/W	Light intensity at max. current Candela	CRI R_a	Beam angle °	Energy efficiency at max. current
Warm white – 2700 K – Drawing A											
Active 9.2 PLUS 27K	**567155**	warm white	2700	680	111	950	107	5800	80	15	A+
Active 9.2 PLUS 27K	**567156**	warm white	2700	675	111	935	105	3410	80	24	A+
Active 9.2 PLUS 27K	**567157**	warm white	2700	665	109	925	104	1300	80	38	A+
Warm white – 3000 K – Drawing A											
Active 9.2 PLUS 30K	**567158**	warm white	3000	710	116	985	111	6050	80	15	A++
Active 9.2 PLUS 30K	**567159**	warm white	3000	705	116	975	110	3550	80	24	A++
Active 9.2 PLUS 30K	**566860**	warm white	3000	695	114	965	108	1350	80	38	A++
Neutral white – 4000 K – Drawing A											
Active 9.2 PLUS 40K	**567160**	neutral white	4000	740	121	1025	115	6300	80	15	A++
Active 9.2 PLUS 40K	**567161**	neutral white	4000	730	120	1015	114	3700	80	24	A++
Active 9.2 PLUS 40K	**567162**	neutral white	4000	725	119	1005	113	1400	80	38	A++
Warm white – 2700 K – Drawing B											
Active 7.2 PLUS 27K	**567147**	warm white	2700	680	111	–	–	4270	80	15	A++
Active 7.2 PLUS 27K	**567148**	warm white	2700	675	111	–	–	2495	80	24	A++
Active 7.2 PLUS 27K	**567149**	warm white	2700	665	109	–	–	960	80	38	A++
Warm white – 3000 K – Drawing B											
Active 7.2 PLUS 30K	**567150**	warm white	3000	710	116	–	–	4450	80	15	A++
Active 7.2 PLUS 30K	**567151**	warm white	3000	705	116	–	–	2600	80	24	A++
Active 7.2 PLUS 30K	**566858**	warm white	3000	695	114	–	–	1000	80	38	A++
Neutral white – 4000 K – Drawing B											
Active 7.2 PLUS 40K	**567152**	neutral white	4000	740	121	–	–	4620	80	15	A++
Active 7.2 PLUS 40K	**567153**	neutral white	4000	730	120	–	–	2700	80	24	A++
Active 7.2 PLUS 40K	**567154**	neutral white	4000	725	119	–	–	1040	80	38	A++

Production tolerance of luminous flux and efficiency: ± 10%

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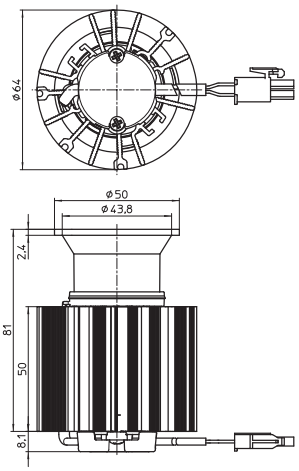
Active Halo PLUS

Dim to warm

Technical notes

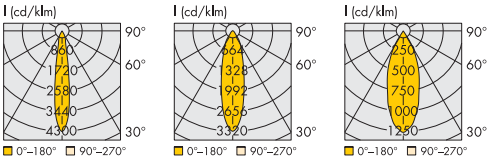
Reflector: Ø 50 mm
Heat sink material: aluminium
Lumen maintenance: L90/B20; 50,000 hrs. 80 °C (350 mA)
Max. operating temperature at t_p point: 100 °C at 350 mA
Temperature depends on installation situation and
has to be checked by the luminaire manufacturer.
Colour accuracy initially: 3 SDCM
Plastic frost cover to protect reflector
Leads: Cu tinned, stranded conductors 0.5 mm², length: 200 mm, with plug
With integrated cord grip
Weight: 150 g
Packaging unit: 24 pcs.



Electrical characteristics

Type	14 mA		350 mA	
	P_{el} (W)	V_f (V)	P_{el} (W)	V_f (V)
Active HALO	0.4	26.9	11.3	33.8

Voltage and power tolerance: ± 10%



20° 26° 42°

Type	Ref. No.	Colour	Correlated colour temp. K	Typ. luminous flux and colour temperature at 14 mA lm	K	350 mA lm	K	Light intensity at max. current Candela	CRI R_a	Beam angle °	Energy efficiency at max. current
ActiveLine HALO – Warm white											
Active HALO PLUS	**566834**	warm white	3000 –> 1800	24	1800	900	3000	3850	95	20	A+
Active HALO PLUS	**566835**	warm white	3000 –> 1800	24	1800	890	3000	2950	95	26	A+
Active HALO PLUS	**566837**	warm white	3000 –> 1800	24	1800	880	3000	1100	95	42	A+

Production tolerance of luminous flux: ± 10%

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LED Drivers

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

Capacity range W	Output current DC mA	Output voltage DC V	**Ref. No.**	Version	Current setting	Dimming	Max. service life time hrs.	at t_c °C	Dimensions (LxWxH) mm	For type 7.2	9.2	S123/S124
250 mA												
4.25–10.0	250	17–40	**186463**	EasyLine	Terminals	–	50,000	65	103.6x67.4x31			x
5.0–10.0	250	20–40*	**186710**	EasyLine	–	Phase cutting	50,000	65*	115x45x25			x
5.0–10.0	250	20–40*	**186708**	EasyLine	–	–	50,000	65*	115x45x25			x
6.25–10.75	250	25–43	**186650**	ComfortLine	LEDSet	–	100,000	70	97x43x30			x
6.25–10.75	250	25–43	**186664**	ComfortLine	LEDSet	–	100,000	70	97x43x30			x
6.75–12.0	250	27–48	**186449**	EasyLine	–	Phase cutting	50,000	60	122.8x45x19			x
300 mA												
7.5–12.9	300	25–43	**186650**	ComfortLine	LEDSet	–	100,000	70	97x43x30			x
7.5–12.9	300	25–43	**186664**	ComfortLine	LEDSet	–	100,000	70	97x43x30			x
6.0–12.0	300	20–40*	**186711**	EasyLine	–	Phase cutting	50,000	65*	115x45x25			x
6.0–12.0	300	20–40*	**186709**	EasyLine	–	–	50,000	65*	115x45x25			x
350 mA												
6.3–19.95	350	18–57	**186431**	EasyLine	–	–	50,000	65	122.8x45x19			x
2.95–12.6	350	8.4–36	**186341**	EasyLine	–	–	50,000	65	122.8x45x19	x	x	x
5.95–14.0	350	17–40	**186463**	EasyLine	Terminals	–	50,000	65	103.6x67.4x31			x
8.75–15.05	350	25–43	**186650**	ComfortLine	LEDSet	–	100,000	70	97x43x30			x
8.75–15.05	350	25–43	**186664**	ComfortLine	LEDSet	–	100,000	70	97x43x30			x
10.5–15.05	350	30–43	**186591**	EasyLine	–	–	30,000	65	115x45x25			x
5.6–19.95	350	16–57	**186431**	EasyLine	–	–			122.8x45x19	x	x	x
5.25–16.1	350	15–46	**186719**	EasyLine	–	–	50,000	70	97.1x42x6x30.3	x	x	x
5.25–16.1	350	15–46	**186720**	EasyLine	–	–	50,000	70	146.5x43.7x30	x	x	x
4.9–11.9	350	14–34	**186465**	PrimeLine	LEDSet	DALI	100,000	65	103.6x67.4x31	x	x	
10.5–18.55	350	30–53	**186503**	PrimeLine	LEDSet	DALI	100,000	65	123.4x79x4x32.6			x
0.7–11.2	350	2–32	**186679**	ComfortLine	–	–	50,000	70	128x37x28	x	x	
1.05–8.75	350	3–25	**186519**	ComfortLine	–	–	50,000	80	65x30.7x21.5	x	x	
11.5–18.2	350	32–52	**186415**	EasyLine	–	Phase cutting	50,000	70	153x41.4x32			x
7.0–19.95	350	20–57	**186581**	ComfortLine	Terminals	1–10 V	50,000	80	103.6x67.4x31			x
400 mA												
10.0–17.2	400	25–43	**186650**	ComfortLine	LEDSet	–	100,000	70	97x43x30			on request
10.0–17.2	400	25–43	**186664**	ComfortLine	LEDSet	–	100,000	70	97x43x30			on request
10.0–17.2	400	25–43	**186651**	ComfortLine	LEDSet	–	100,000	70	97x43x30			on request
500 mA												
4.0–15.0	500	8–30	**186349**	EasyLine	–	–	50,000	65	122.8x45x19		x	
2.0–12.0	500	4–24	**186508**	EasyLine	–	–	50,000	60	122.8x45x19		x	
7.5–23.0	500	15–46	**186721**	EasyLine	–	–	50,000	70	97.1x42x6x30.3		x	
7.5–23.0	500	15–46	**186722**	EasyLine	–	–	50,000	70	146.5x43.7x30		x	
7.0–17.0	500	14–34	**186573**	PrimeLine	Programmable	DALI	100,000	65	103.6x67.4x31		x	
1.0–16.0	500	2–32	**186680**	ComfortLine	–	–	50,000	70	128x37x28		x	
6.5–10	500	13–20	**186448**	EasyLine		Phase cutting	50,000	60	122.8x45x19		x	

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

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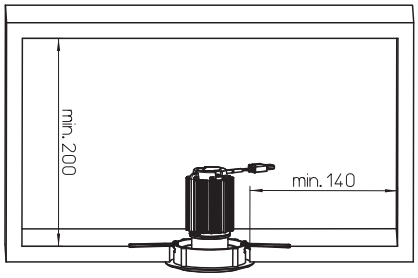
LEDSpot Active PLUS – Installation Instruction

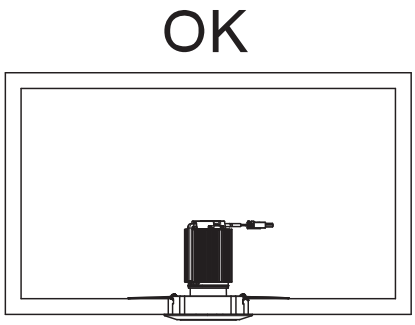
General safety information

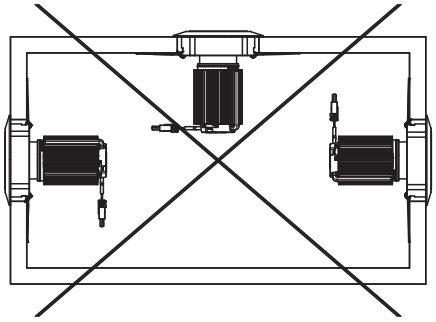
- VS product may only be installed and commissioned by authorised and fully qualified staff.
- These instructions must be carefully read before installing and commissioning the system, as this is the only way to ensure safe and correct handling.
- An external constant-current driver is required.
- Before 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.

Built-in



Correct position





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). We will be happy to send you these conditions upon request.

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