CC COMPACT DIP SWITCH





COMFORTLINE DIP SWITCH C

187566, 187567

Typical Applications

Built-in in compact luminaires for

- Shop lighting
- Office lighting
- Residential lighting
- Downlights

ComfortLine DIP switch (

- SELECTABLE OUTPUT CURRENT VIA DIP SWITCH
- VARIOUS CORD GRIPS CAN BE FITTED
- SELV
- SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172
- LONG SERVICE LIFE: UP TO 100.000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



Product features

• Compact casing shape

Functions

- Selectable current output by dip-switch
- Suitable for central battery system for emergency lighting acc. to EN 50172

Electrical features

- Mains voltage: 220-240 V ±10%
- Mains frequency: 50-60 Hz, 0 Hz
- DC Operation: 176-276 V (range of application)
- Push-in terminals:
 rigid 0.5-1.5 mm²
 strand 0.75-1.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

Safety features

- Protection against transient main peaks up to 1 kV (between L and N)
- Electronic short-circuit protection
- Overload protection
- Degree of protection: IP20
- Protection class II
- SELV
- SVM: < 0.4
- PstLM: < 1

Ref. No.	Packaging unit						
	Pieces	Weight					
	per box	per pallet	g				
187566	20	200	85				
187567	20	200	120				

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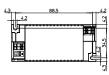
Dimensions

Ref. No.	Casing		Width	
		mm	mm	mm
187566,	K107	97	43	23
187567				

K107







Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2/EN 61000-3-3
- EN 62384
- EN 55015
- EN 61000-4-2/EN 61000-4-5







Product guarantee

• 5 years

for operation at recommended operation temperature (see table for expected service life time on the next page)

 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.

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



1 Cord-Grip contains one upper and one lower part

Available separately

2 cord grips per LED driver required

Permitted diameter of the cable mantle: 3-7mm

2x0.75-1.5mm2 PVC cable Packaging unit: 20 pcs.

Ref. No.: 187450 (1 pcs Cord Grip sl for K107/K110)







Cord grip "ws" (with screw) for K107/K110

Available for independent operation Available separately 2 cord grips per LED driver required Permitted diameter of the cable mantle: 3-9mm 2x0.75-1.5mm² PVC cable Packaging unit: 20 pcs.

Ref. No.: 187451 (1pcs Cord Grip sl for K107/K110)





Cord grip "LILO" for K107/K110

Available for independent operation Available separately Permitted diameter of the cable mantle: 5-12mm 3x0.75-2.5mm² PVC cable, "E" terminal for protective earth Only for looping wiring, two cables Packaging unit: 20 pcs.

Ref.-No.: 187453 (1pcs LILO(3pin) for K107/K110)





Electrical characteristics

Мах.	Туре	Ref. No.	Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output			50-60 Hz	current	current	output DC	output	at full load	at full load	100 Hz
W			V	mA	A / µs	mA (± 5%; for 14W ± 7,5%)	DC (V)	% (230 V)	% (230 V)	%
29	ECXe700.729	187566	220-240	160-130	· '	350/400/450/500/ 550/600/650/700	20-42	6	90	<5
44	ECXe1050.730	187567	220-240	240-190	· ·	700/750/800/850/ 900/950/1000/1050	20-42	5	90	<5

Maximum ratings

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

Ref. No.	Ambient temperature		Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
	range		range		range		range		temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187566	-20	+45	10	95	-40	+80	5	95	80	IP20
187567									85	

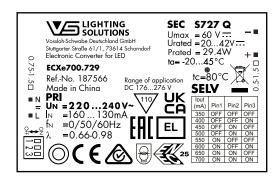
Expected service life time

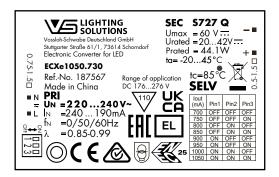
at operation temperatures at t_c point

Operation	Ref. No.								
current	187566		18 <i>75</i> 6 <i>7</i>						
All	70 °C*	80 °C	75 °C*	85 °C					
hrs.	100.000	50.000	100.000	50.000					

^{*} recommended operation temperature

Product labels





DIP switch settings

187566/ECXe700.729										
Pin	in		Output	Current	Voltage	Factory-				
1	2	3	W	mA	V	settings (mA)				
OFF	OFF	OFF	14,7	350		350				
OFF	OFF	ON	16,8	400						
OFF	ON	OFF	18,9	450						
OFF	ON	ON	21	500						
ON	OFF	OFF	23,1	550	20-42					
ON	OFF	ON	25,2	600						
ON	ON	OFF	27,3	650						
ON	ON	ON	29,4	700						

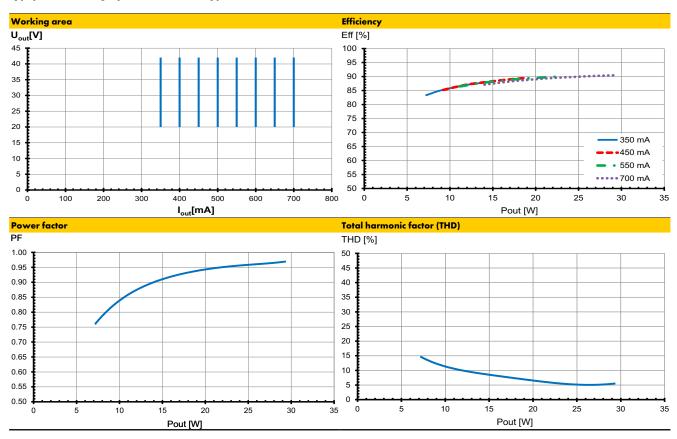
1875	187567/ECXe1050.730										
Pin	Pin		Output	Current	Voltage	Factory-					
1	2	3	W	mA	V	settings (mA)					
OFF	OFF	OFF	29,4	700		700					
OFF	OFF	ON	31,5	750							
OFF	ON	OFF	33,6	800							
OFF	ON	ON	35,7	850							
ON	OFF	OFF	37,8	900	20-42						
ON	OFF	ON	39,9	950							
ON	ON	OFF	42	1000							
ON	ON	ON	44,1	1050							

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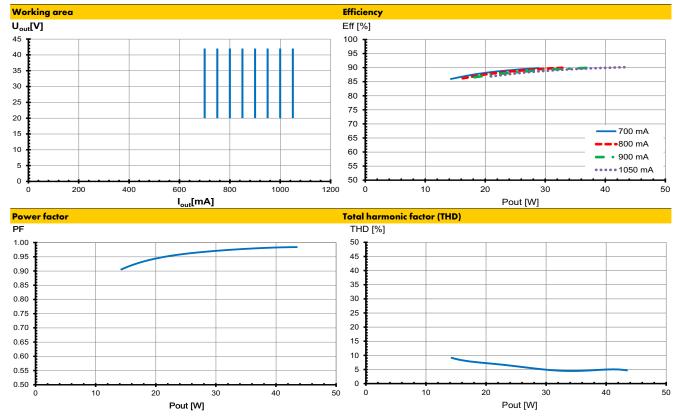


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Typ. performance graphs for 187566 / Type ECXe 700.729



Typ. performance graphs for 187567 / Type ECXe 1050.730



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Safety functions

• Transient mains peaks protection:

Values are in compliance with EN 61547

(interference immunity).

Surges between L-N: up to 1 kV

• Short-circuit protection: The control gear is protected against

permanent short-circuit with automatic restart

function.

• Overload protection: The control gear only works in range of rated

output power and voltage problemfree

(< 60 V DC).

Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).

Overheating: The control gear has overheating protection.

• No load operation: The control gear is protected against no load

operation (open load).

• If any of the above mentioned safety functions will be triggered, disconnect the control gear from the power supply then find and eliminate the cause of the problem.

Assembly and Safety Information

Installation must be carried out under observation of the relevant regulations and standards. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains). The following advices must be observed; non-observance can result in the destruction of the LED drivers, fire and/or other hazards.

Mandatory regulations

- DIN VDE 0100
- EN 60598-1

Mechanical mounting

• Mounting position: Built-in: Any position inside a luminaire

is allowed

Independent application: Drivers are allowed to use for independent applications

with separate cord grip.

• Mounting location: LED drivers are designed for integration into

luminaires or comparable devices.

Independent LED drivers do not need to be

integrated into a casing.

Installation in outdoor luminaires: degree of protection for luminaire with water protection

rate \geq 4 (e.g. IP54 required).

• Degree of protection: IP20

• Clearance: Min. 0.10 m from walls. ceilings and

insulation

• Surface: Solid and plane surface for optimum

heat dissipation required.

• Heat transfer: If the driver is destined for installation in a

luminaire. sufficient heat transfer must be ensured between the driver and the luminaire

casing.

LED drivers should be mounted with the greatest possible clearance to heat sources.

During operation, the temperature measure at

the driver's t_{c} point must not exceed the

specified maximum value.

• Fastening: Using M4 screws in the designated holes

• Tightening torque: 0.2 Nm

Electrical installation

• Connection

terminals: Push-in terminals for rigid or flexible conductors

with a section of

built-in: 0,5-1,5mm² PVC cable independent: 0.75-1,5mm² PVC cable

• Stripped length: 7–8 mm

Wiring: The mains conductor within the luminaire must

be kept short (to reduce the induction of

interference).

Mains and lamp conductors must be kept separate and if possible should not be laid

in parallel to one another.

Max. secondary side lead length: 2 m

Polarity:
 Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can

destroy the modules.

• Secondary load: The sum of forward voltages of LED loads is

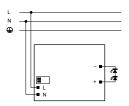
within the tolerances which are mentioned in the Electrical Characteristics on the data

sheet.

Parallel wiring: Parallel connection of LED loads is not

allowed.

• 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 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 m Ω (approx. 20 m [2.5 mm²] of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Туре	Ref. No.	Automati of VS driv pcs.		ype and p	ossible no).	
Automatic cut-ou	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A	
ECXe 700.729	187566	13	16	20	21	28	34
ECXe 1050.730	187567	13	17	21	22	29	35

 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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