CC COMPACT DIP SWITCH DIMMABLE





PrimeLine DIP switch C-R3 DALI2

186762, 186763

Typical Applications

Built-in in compact luminaires

- Shop lighting
- Downlights



PrimeLine DIP switch C-R3 DALI2

- SELECTABLE OUTPUT CURRENT
 VIA DIP SWITCH
- DIMMABLE: DALI (ED. 2)
- VERY LOW RIPPLE CURRENT: < 3%</p>
- SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- SELV
- SUITABLE FOR BUILT-IN INTO FURNITURE
- LONG SERVICE LIFE: UP TO 100,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



PrimeLine DIP switch C-R3

Product features

- Compact casing shape
- For independent operation with cord grip
- For built-in without cord grip

Functions

- The required current output can be chosen by dip switches.
- 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 • DC operation: 170-280 V, 0 Hz • Push-in terminals: 0.5-1.5 mm²
- Power factor at 12 W: 0.95
- Standby losses: < 0.5 W
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

Dimming

- Dimming range: 1 to 100%
- If no dimming interface is connected, brightness will stay at 100%.

Safety features

- Protection against transient main peaks up to 2 kV (between L and N)
- Electronic short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class I (built-in version); protection class II (independent version)
- SELV

CC-PrimeLine-DIP-switch-C-R3-DALI2_186762-186763_EN = 2/6 = 06/2019

Packaging units

Independent drivers

186763 40

Ref. No.	Packaging unit						
	Pieces	Boxes	Weight				
	per box	per pallet	g				
Built-in drivers							
186762	20	<i>7</i> 5	100				



50 000

😰 hours



Guarante











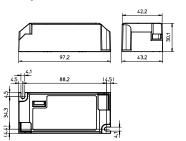


Dimensions built-in drivers

- Casing: K33.3 (186762)
- Length: 97.2 mm
- Width: 43.2 mm
- Height: 30.1 mm







Applied standards

- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-3
- EN 62384
- EN 55015
- IEC 62386 ed. 2 part 102/103/207
- VDE 0710-T14







Dimming

Analogue

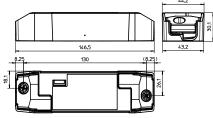


Dimensions independent drivers

- Casing: K33.3 (186763)
- Length: 146.5 mm
- Width: 43.2 mm • Height: 30.1 mm







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.



Electrical characteristics

Max.	Туре	Ref. No.		Voltage	Mains	Inrush	Current	Voltage	THD	Efficiency	Ripple
output		built-in	independent	50–60 Hz	current	current	output DC	output		at full load	100 Hz
W				٧	mA	A / µs	mA (±5%)	DC (V)	%	% (230 V)	%
16	ECXd 1050.299	186762	186763	220-240	200	5 / 50	300 ±6%	10–54	< 10	> 90	< 3
18							350 ±6%	10–54			
21							400 ±6%	10–54			
24							450 ±6%	10–54			
27							500 ±5%	10–54			
29							550 ±5%	10-54			
32							600 ±5%	10-54			
35							650 ±5%	10–54			
38							700 ±5%	10-54			
							750 ±5%	10–51			
							800 ±5%	10–48			
							850 ±5%	10–45			
							900 ±5%	10-43			
							950 ±5%	10-40			
							1000 ±5%	10–38			
							1050 ±5%	10–36			

Maximum ratings

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

Ref. No.	Ambient temp	perature	Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
	range		range range ro		range		temperature at t _c point	protection		
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
186762	-25	+50	5	80	-30	+80	5	85	+85	IP20
186763	-25	+45								

Expected service life time

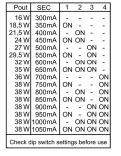
at operation temperatures at t_C point

Operation	Ref. No.	
current	All	
Мах.	75 °C	85 °C
hrs.	100,000	50,000

Product labels and dip-switch settings

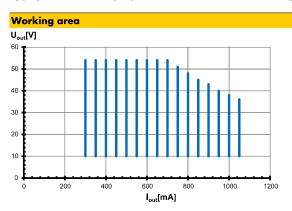


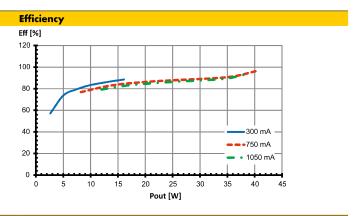


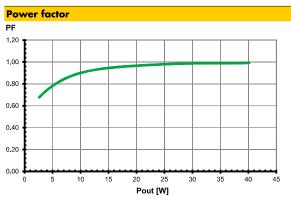


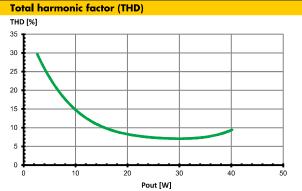


Typ. performance graphs for 186762, 186763 / Type ECXd 1050.299









Safety functions

• Transient mains peaks protection:

Values are in compliance with EN 61547 (interference immunity).

Surges between L-N: up to 2 kV

Short-circuit protection:

The control gear is protected against permanent short-circuit with automatic restart

function.

• Overload protection: The control gears have overload protection

due to limitation of DC output voltage < 60 V. Please check before switch-on mains power supply that the selected LED load is suitable (see Electrical Characteristics on data sheet).

• Overheating:

The control gears have overheating protection. In case of overheating the control gear will shut down. For restart switch of the mains for

1 min. and start again.

The temperature reduces the output current of the control gear in the event of overheating.

 $\bullet\,$ 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.

DC and emergency lighting operation

The control gears are suitable for direct voltage operation (DC). Reliable DC operation is guaranteed if the specified working area of LED driver is maintained.

• Light level at DC operation (EOFx):

100 % (not adjustable)

• DC range: 170-280 V

• DC operation: 3 hrs. (acc. to EN 50172)

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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 with integrated cord grip are allowed to use for

independent applications.

• 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 ≥ 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 $0.5-1.5 \text{ mm}^2$

• Stripped length: 9-10 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 for

independent drivers: 1 m

Polarity: Please ensure the correct polarity of the leads

prior to commissioning. Reversed polarity can

destroy the modules.

• Parallel connection: At secondary side is not allowed.

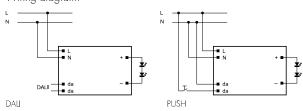
• Through-wiring: Is not allowed

• 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.

• 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 m Ω (approx. 20 m [2.5 mm 2] of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Туре	Ref. No.	Automatic cut-out type and possible no. of VS drivers pcs.				
Automatic cut-	B 10 A	B 13 A	B 16 A			
ECXd 1050.299	186762, 186763	31	40	50		
Automatic cut-	C 10 A	C 13 A	C 16 A			
ECXd 1050.299	186762, 186763	52	69	85		

 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.

