CC COMPACT DIP SWITCH DIMMABLE





BLU2LIGHT PRIMELINE DIP SWITCH C LOOP

187042

Typical Applications

- Office lighting
- Retail lighting
- Residential lighting



Blu2Light PrimeLine DIP switch C loop

- SELECTABLE OUTPUT CURRENT
 VIA DIP SWITCH
- DIMMABLE: BLU2LIGHT
- VERY LOW RIPPLE CURRENT: < 3%</p>
- THROUGH-WIRING
- SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172
- WITH INTEGRATED CORD GRIP FOR INDEPENDENT OPERATION
- SELV
- LONG SERVICE LIFE: UP TO 100,000 HRS.
- PRODUCT GUARANTEE: 5 YEARS



Blu2Light PrimeLine DIP switch C loop

Product features

- Compact casing shape
- With integrated cord grip
- For through-wiring

Functions

- Selectable current output by DIP switch.
- The output current can be freely adjusted between 100 and 700 mA.
- 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: 176-276 V, 0 Hz
- Push-in terminals: primary 0.75-2.5 mm² and secondary 0.5-1.5 mm²
- Power factor at full load: 0.97
- 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) or up to 4 kV (between L/N-PE)
- Electronic short-circuit protection
- Overload protection
- Overtemperature protection
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II

Packaging units

Ref. No.	Packaging unit						
	Pieces	Boxes	Weight				
	per box	per pallet	g				
187042	12	32	185				









50000 🗷 hours





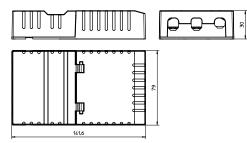








- Casing: K3.3 • Length: 141.6 mm
- Width: 79 mm
- Height: 30 mm



• EN 61347-2-13 • EN 61547 • EN 61000-3-2:14

• EN 61347-1

EN 61000-3-3:13

Applied standards

• EN 55015





Dimming

Analogue



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			50-60 Hz	current	current	output DC	output		at full load	< 1000 Hz
W			V	mA	A / µs	mA (± 7.5%)	DC (V)	%	% (230 V)	%
38	ECXd 700.426	187042	220-240	210-190	25 / 5	100-700	10-54	< 9	> 87	< 3

Maximum ratings

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

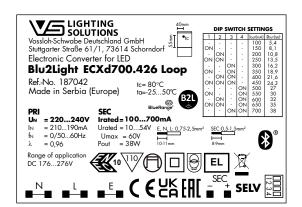
Ref. No.	Ambient temperature		Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
	range		range		range		range		temperature at t _c point	protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
187042	-25	+50	5	60	-40	+85	5	95	+80	IP20

Expected service life time

at operation temperatures at t_c point

Operation	Ref. No.	
current	All	
All	70 °C	80 °C
hrs.	100,000	50,000

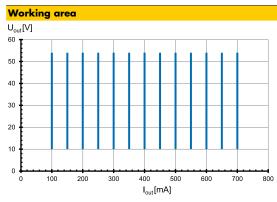
Product labels

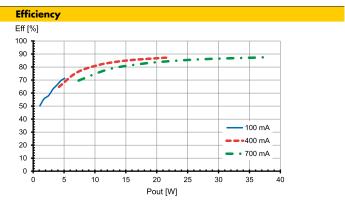


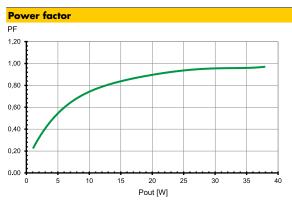
The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

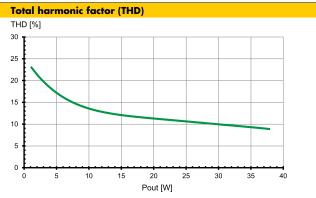


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Safety functions

Transient mains peaks protection:

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

Surges protection between L-N: up to 2 kV Surge protection between L/N-PE: up to 4 kV

• Short-circuit protection:

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

• 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 reduce the output current. To restore normal operation switch of the mains for 1 min. and

- start again.
- 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):

15 % (not adjustable)

• DC range: 176-276 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: Any position

 Mounting location: 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

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: $0.2 \, \text{Nm}$

Electrical installation

Connection

terminals: Push-in terminals for rigid or flexible conductors

> with a section of $0.75-2.5 \text{ mm}^2$ for primary side and $0.5-1.5 \text{ mm}^2$ for secondary side

 Stripped length: 10-11 mm (for primary side) and

8-9 mm (for secondary side)

The mains conductor within the luminaire must Wiring:

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.

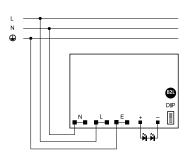
 Parallel connection: At secondary side is not allowed.

 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 mm²] 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-out	B 16 A	B 20 A				
ECXd 700.426	187042	43	56	69	86	
Automatic cut-out	type C	C 10 A	C 13 A	C 16 A	C 20 A	
ECXd 700.426	187042	43	56	69	86	
Automatic cut-out	K 10 A	K 13 A	K 16 A	K 20 A		
ECXd 700.426	187042	43	56	69	86	

- To limit capacitive inrush currents the current carrying capacity of each circuit breaker (fuse) can be increased with the help of our ESB (Ref. No.: 149820, 149821, 149822) inrush current limiters.

EU compliance information

Hereby, Vossloh-Schwabe Deutschland GmbH declares that the radio equipment type Blu2Light PrimeLine DIP switch C loop Blu2Light is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.vossloh-schwabe.com.

Frequency range: 2402-2480 MHz Max. power transmitted: < 10 mW EIRP

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