

CC TRACK DIP SWITCH



BLU2LIGHT PRIMELINE DIP SWITCH UIT-345

186975, 186976

Typical Applications

For common track systems

- Retail lighting



Blu2Light PrimeLine DIP switch UIT-345

- **NEW DESIGN FREEDOM WITH IN-TRACK PRO: COMPLETE INTEGRATION OF LED DRIVER INTO THE TRACK RAIL**
- **DIMMABLE: BLUETOOTH BLU2LIGHT**
- **SELECTABLE OUTPUT CURRENT VIA DIP SWITCH**
- **VERY LOW RIPPLE CURRENT: < 1%**
- **COMPATIBLE WITH DIFFERENT 3-PHASE TRACK SYSTEMS**
- **SELV**
- **LONG SERVICE LIFE: UP TO 100,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



Blu2Light Primeline Dip Switch UIT-345

Product features

- Adapter with integrated LED driver electronics for common 3-phase track systems (compatibility see page 5)
- Blu2Light control (Bluetooth®, 2402–2480 MHz)
- Available in two different casing colours: white (similar RAL 9003) and black (similar RAL 9011)

Functions

- Selectable current output via DIP switch

Electrical features

- Mains voltage: 220–240 V $\pm 10\%$
- Mains frequency: 50–60 Hz
- IDC terminals: 0.5–0.75 mm² (AWG20–AWG18)
- Power factor at full load: 0.99
- Open circuit voltage (U_{max.}): 60 V
- Secondary side switching of LED modules is not allowed.

Dimming

- Dimming range: 1 to 100%

Safety features

- Protection against transient main peaks up to 4 kV (between L and N)
- Electronic short-circuit protection
- Protection against overload
- Degree of protection: IP20
- Protection class II
- SELV

Packaging units

Type	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
ECXd 1050.406	20	640	145

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.



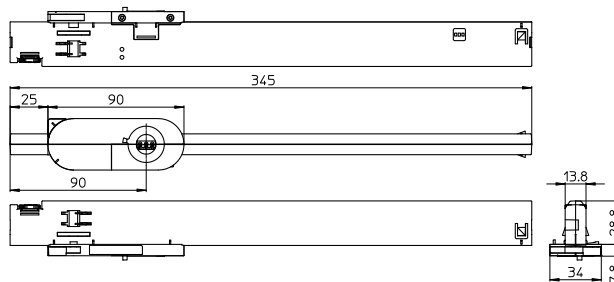
Applied standards

- EN 60570
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 55015



Dimensions

- Casing: UIT-345
- Length: 345 mm
- Width: 34 mm
- Height: 36.6 mm (visible 7.8 mm)



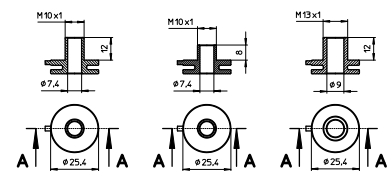
Dimming

Analogue

Retaining collars for luminaire heads

Material: aluminium

- Ref. No.: 570360** M10x1, length: 12 mm
- Ref. No.: 570955** M10x1, length: 8 mm
- Ref. No.: 570361** M13x1, length: 12 mm



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

LED Drivers – Blu2Light PrimeLine DIP switch UIT-345

Electrical characteristics

Max. output W	Type	Ref. No.	Casing colour	Voltage 50–60 Hz V	Mains current mA	Inrush current A / μ s	Current output DC mA (\pm 7.5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
45	ECXd 1050.407	186975	white (similar RAL 9003)	220–240	238–218	5 / 41	700–1050	20–43	< 9	> 86	< 1
		186976	black (similar RAL 9011)								

Maximum ratings

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

Type	Ambient temperature range		Operation humidity range		Storage temperature range		Storage humidity range		Max. operation temperature at t_c point °C	Degree of protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.		
ECXd 1050.407	-20	+35	5	60	-20	+85	5	95	+75	IP20

Expected service life time

at operation temperatures at t_c point

Operation current	Type ECXd 1050.407	
All	65 °C	75 °C
hrs.	100,000	50,000

Product labels

VS LIGHTING SOLUTIONS Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf

Electronic Converter for LED
Blu2Light ECXd1050.407
UIT-345-WH
Ref. No. 186975
Made in Serbia (Europe)

B2L BlueRange
210mm x 15mm
 t_c

PRI UN= 220...240 V
 $I_N = 238...218$ mA
 $f_N = 50...60$ Hz
 $\lambda = 0.99$

1	2	3	Irated (mA)	Prated (W)	1	2	3	Irated (mA)	Prated (W)	Urated (Vdc)	to (°C)	I _{max} (A)
OFF	OFF	OFF	700	30	ON	OFF	OFF	900	39	20...43	-20...+35	50
OFF	OFF	ON	750	32	ON	OFF	ON	950	41			
OFF	ON	OFF	800	34	ON	ON	OFF	1000	43			
OFF	ON	ON	850	37	ON	ON	ON	1050	45			

SELV

VS LIGHTING SOLUTIONS Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1, 73614 Schorndorf

Electronic Converter for LED
Blu2Light ECXd1050.407
UIT-345-BK
Ref. No. 186976
Made in Serbia (Europe)

B2L BlueRange
210mm x 15mm
 t_c

PRI UN= 220...240 V
 $I_N = 238...218$ mA
 $f_N = 50...60$ Hz
 $\lambda = 0.99$

1	2	3	Irated (mA)	Prated (W)	1	2	3	Irated (mA)	Prated (W)	Urated (Vdc)	to (°C)	I _{max} (A)
OFF	OFF	OFF	700	30	ON	OFF	OFF	900	39	20...43	-20...+35	50
OFF	OFF	ON	750	32	ON	OFF	ON	950	41			
OFF	ON	OFF	800	34	ON	ON	OFF	1000	43			
OFF	ON	ON	850	37	ON	ON	ON	1050	45			

SELV

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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 4 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.
Please check before switch-on mains power supply that the selected LED load is suitable (see electrical characteristics on data sheet).

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.

Compatibility of track rails

Suitable for following tracks

- Erco
- Eutrac
- Globaltrac
- Iguzzini
- Zumtobel

Not suitable for

- IG DALI

Dimming interface

- Bluetooth (Blu2Light)
- Control / Configuration via Blu2Light app

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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

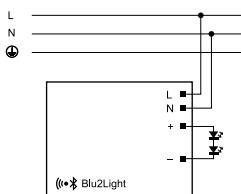
- DIN VDE 0100
- EN 60598-1

Mechanical mounting

- Mounting position and location:
 - Common track system; for vertical wall mounting an additional component must be used to prevent the sliding of the adapter in the rail.
- 3-phase option: 3 phases are selectable with a rotary switch.
- Degree of protection: IP20
- Inserting into rail: The track adapter has a rotatable locking device at the current collector shaft and a mechanical locking device on the opposite side. Insert the adapter into the rail and press lightly the mechanical locking side into the rail. By actuating the rotary locking device the adapter is locked into the rail.
- Load vertical: max. up to 50 N
- Torque on extension arm: 2 Nm
- Removing the adapter: Release rotary lock, tilt the adapter out of the rail by 45° and then pull the adapter out at the mechanical lock.

Electrical installation

- Connection terminals: IDC terminals for rigid or flexible conductors with a section of 0.5–0.75 mm² (AWG20–AWG18), insulation diameter: max. 2.1 mm
- Polarity: Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- Through-wiring: Is not allowed.
- Secondary load: The sum of forward voltages of LED loads has to be within the tolerances which are mentioned in the table "Electrical Characteristics" in this 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 mΩ (approx. 20 m [2.5 mm²] of conductor from the power supply to the distributor and a further 15 m to the luminaire).

Type	Ref. No.	Automatic cut-out type and possible no. of VS drivers pcs.		
Automatic cut-out type B				
ECXd 1050.407	186975, 186976	B 10 A	B 13 A	B 16 A
Automatic cut-out type C				
ECXd 1050.407	186975, 186976	C 10 A	C 13 A	C 16 A

EU compliance information

Hereby, Vossloh-Schwabe Deutschland GmbH declares that the radio equipment type PrimeLine DIP switch UIT-345 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

Information on CE regulation

When the In-Track adapter is used, it becomes part of the luminaire and thus of the end product. The luminaire manufacturer is therefore responsible for proving that the end product complies with the essential requirements of the Radio Equipment Directive (RED). Some additional conformity measurements are required before placing the product on the market in the EU member states to ensure conformity with the relevant EU directives.

Important note:

Please refer to the installation instructions included with the product and the applicable Blu2Light system data sheet "How to Blu2Light" before installation. Make sure that the Bluetooth radio signal can propagate freely according to the specifications.

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