CC TRACK DIP SWITCH DIMMABLE

PRIMELINE DIP SWITCH UT-260 DALI2

186946, 186947, 186948, 186949

Typical Applications
For common track systems
- Retail lighting

PrimeLine DIP switch UT-260 DALI2

- **SELECTABLE OUTPUT CURRENT VIA DIP SWITCH**
- **DIMMABLE: DALI (ED. 2)**
- **VERY LOW RIPPLE CURRENT: < 3%**
- **COMPATIBLE WITH DALI TRACK SYSTEMS**
- **SELV**
- **LONG SERVICE LIFE: UP TO 100,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**

5 YEARS GUARANTEE

LIGHTING SOLUTIONS
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PrimeLine DIP switch UT-260 DALI2

Product features
- Adapter with integrated LED driver electronics for for DALI-compatible track systems (compatibility see page 5)
- Available in two different casing colours: white and black

Functions
- Selectable current output by DIP switches
- The output current can be freely adjusted between 325 mA and 700 mA (186946 and 186947) or 675 mA and 1050 mA (186948 and 186949).

Electrical features
- Mains voltage: 220–240 V ±10%
- Mains frequency: 50–60 Hz
- DC operation: 174 – 280V, 0 Hz
- Push-in terminals: 0.2–0.5 mm²
- Power factor at full load: > 0.95
- Open circuit voltage ($U_{max.}$): 59 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 1 kV (between L and N)
- Electronic short-circuit protection
- Overtemperature protection
- Protection against overload
- Degree of protection: IP20
- Protection class II
- SELV

Packaging units

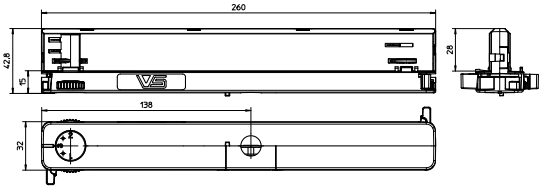
Type	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
ECXd 700.400	48	36	150
ECXd 1050.401	48	36	150

IP20 · SELV · 110 · OVERLOAD PROTECTION · IEEE 1789-2015

50 000 hours Min. Service Lifetime · Guarantee 5 years

Applied standards
- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2
- EN 62384
- EN 62386
- EN 55015

Dimensions
- Casing: UT-260
- Length: 260 mm
- Width: 32 mm
- Height: 42.8 mm



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.

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Electrical characteristics

Max. output W	Type	**Ref. No.**	Casing colour	Voltage 50–60 Hz V	Mains current mA	Inrush current A / µs	Current output DC mA (± 5%)	Voltage output DC (V)	THD at full load % (230 V)	Efficiency at full load % (230 V)	Ripple 100 Hz %
31	ECXd 700.400	**186946**	white	220–240	170	5 / 50	325–700	20–44	< 15	> 86	< 3
		186947	black								
40	ECXd 1050.401	**186948**	white	220–240	220	5 / 50	675–1050	5–42	< 15	> 86	< 3
		186949	black								

Maximum ratings

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

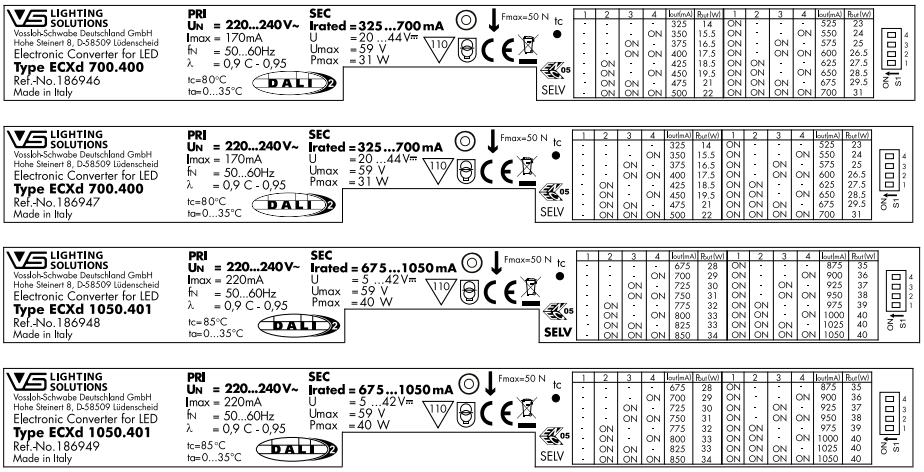
Type	Ambient temperature range		Operation humidity range		Storage temperature range		Storage humidity range		Max. operation temperature at t_c point	Degree of protection
	°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
ECXd 700.400	0	+35	5	95	–40	+100	5	95	+80	IP20
ECXd 1050.401									+85	

Expected service life time

at operation temperatures at t_c point

Operation current	Type ECXd 700.400		ECXd 1050.401	
All	70 °C	80 °C	75 °C	85 °C
hrs.	100,000	50,000	100,000	50,000

Product labels



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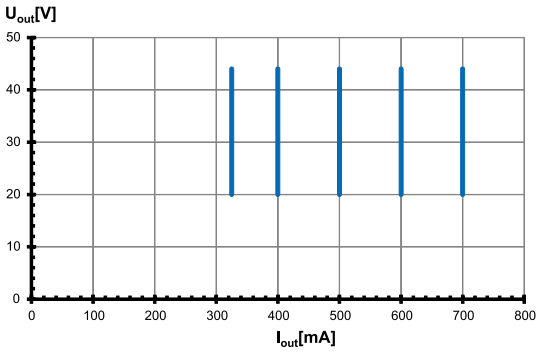
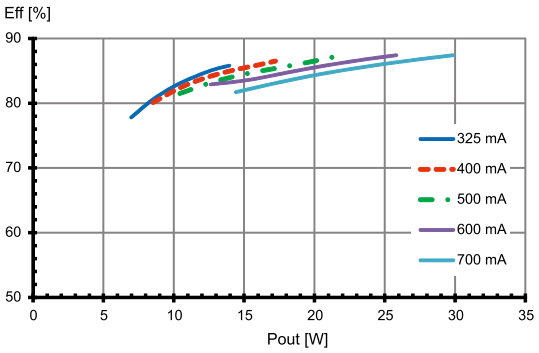
Typ. performance graphs for 186946, 186947 / Type ECXd 700.400

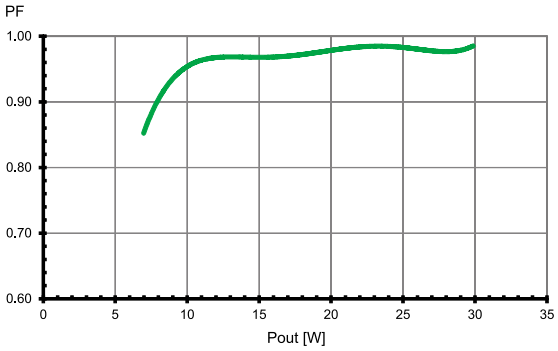
Working area



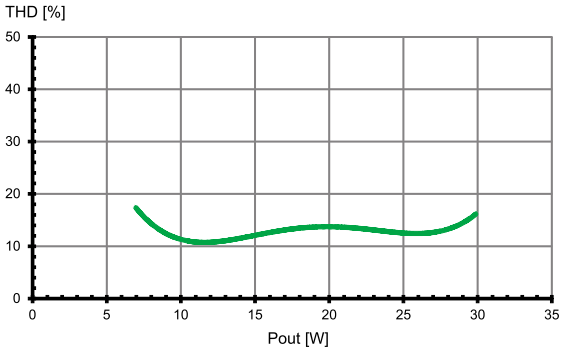
Efficiency



Power factor

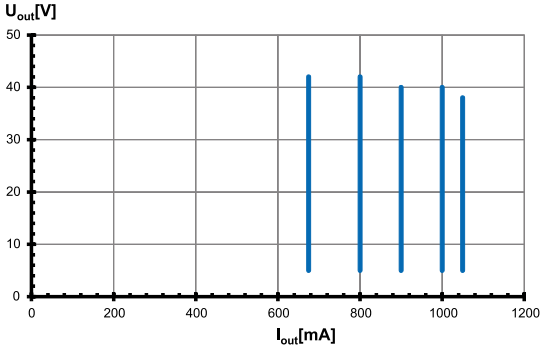


Total harmonic factor (THD)

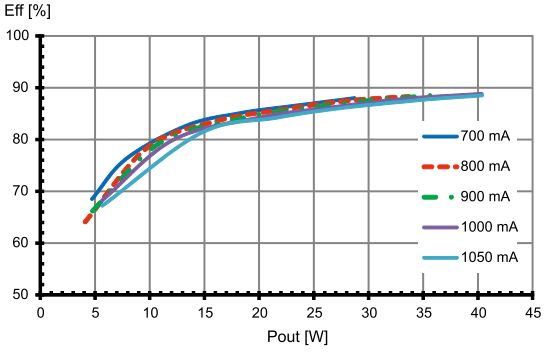


Typ. performance graphs for 186948, 186949 / Type ECXd 1050.401

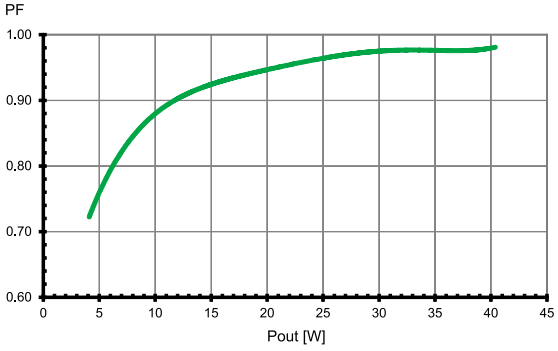
Working area



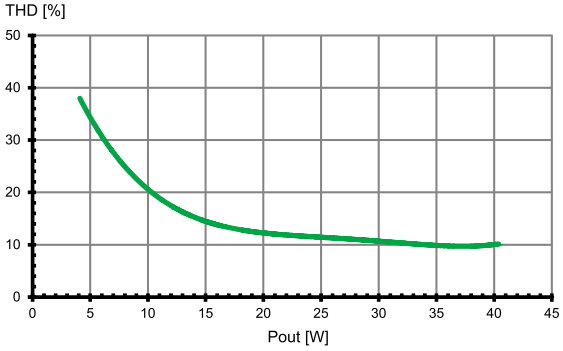
Efficiency



Power factor



Total harmonic factor (THD)



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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.
  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 acc. to IEC 61347-1 C 5a).
  In case of overheating the control gear will reduces the output current.
  Automatic restart when the fault is removed..
- 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

- Global TRAC PULSE
- XTSC / XTSCF
- STUCCHI
  - 9000-../..-ST
  - 9000-../..-R
  - 9000-../..-H

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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

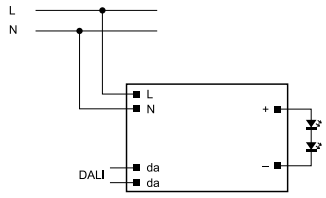
- DIN VDE 0100
- EN 60598-1

Mechanical mounting

- Mounting position and location: Common track system
- 3-phase option: 3 phases are selectable with a rotary switch. The neutral is in a fixed position in the track.
- Degree of protection: IP20
- Clearance: Min. 0.10 m from walls. ceilings and insulation
- Fastening: Double mechanical locking for pefect track fixing
- Load: max. up to 50 N

Electrical installation

- Connection terminals: Push-in terminals for rigid or flexible conductors with a section of 0.2–0.5 mm²
- Stripped length: 8.5–10 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		B 10 A	B 16 A	B 20 A
ECXd 700.400	**186946, 186947**	31	50	62
ECXd 1050.401	**186948, 186949**	31	50	62
Automatic cut-out type C		C 10 A	C 16 A	C 20 A
ECXd 700.400	**186946, 186947**	52	85	104
ECXd 1050.401	**186948, 186949**	52	85	104

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