

CC TRACK TERMINAL



COMFORTLINE TERMINAL UIT-345

186932, 186966

Typical Applications

For common track systems

- Retail lighting

ComfortLine Terminal UIT-345

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



ComfortLine Terminal UIT-345

Product features

- Adapter with integrated LED driver electronics for common 3-phase track systems (compatibility see page 5)
- Available in two different casing colours: white (similar RAL 9003) and black (similar RAL 9011)

Functions

- Selectable current output by secondary side terminal.
- The required current output can be chosen by selecting the respective pin at the output terminal.

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.

Safety features

- Protection against transient main peaks up to 1 kV (between L and N)
- Electronic short-circuit protection
- Overtemperature protection
- Protection against overload
- Protection against "no load" operation
- Degree of protection: IP20
- Protection class II
- SELV

Packaging units

Type	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
ECXe 1050.388	20	640	139

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.



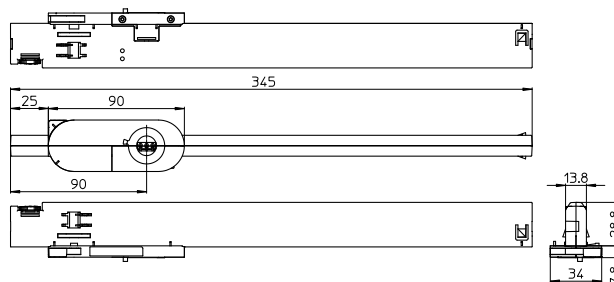
Applied standards

- 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)



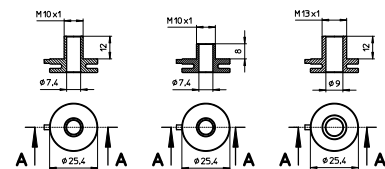
Retaining collars for luminaire heads

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.

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 %
38.5	ECXe 1050.388	186932	white (similar RAL 9003)	220–240	240–219	5 / 41	900	20–43	< 10	> 87	< 2
45							1050				
38.5	ECXe 1050.388	186966	black (similar RAL 9011)	220–240	240–219	5 / 41	900	20–43	< 10	> 87	< 2
45							1050				

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.		
ECXe 1050.388	-20	+35	5	60	-20	+85	5	95	+75	IP20

Expected service life time

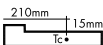
at operation temperatures at t_c point

Operation current	Type ECE 1050.388	
All	65 °C	75 °C
hrs.	100,000	50,000

Product labels


VS LIGHTING SOLUTIONS Vossloh-Schwabe Deutschland GmbH
Hohe Steinert 8, D-58509 Lüdenscheid

Electronic Converter for LED
Type ECE 1050.388
Ref. No. 186932
Made in Serbia (Europe)



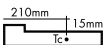
PRI
UN= 220...240 V
N = 238...218 mA
fN = 50...60 Hz
 λ = 0.99

Irated (mA)	Urated (Vdc)	Prated (W)	ta (°C)	Fmax (N)
900	20...43	38.5	-20...+35	50
1050	20...43	45		

SELV  LED + LED - 1050 mA LED - 900 mA SEC


VS LIGHTING SOLUTIONS Vossloh-Schwabe Deutschland GmbH
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UN= 220...240 V
N = 238...218 mA
fN = 50...60 Hz
 λ = 0.99

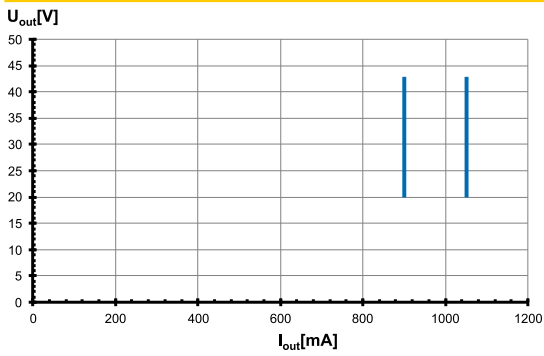
Irated (mA)	Urated (Vdc)	Prated (W)	ta (°C)	Fmax (N)
900	20...43	38.5	-20...+35	50
1050	20...43	45		

SELV  LED + LED - 1050 mA LED - 900 mA SEC

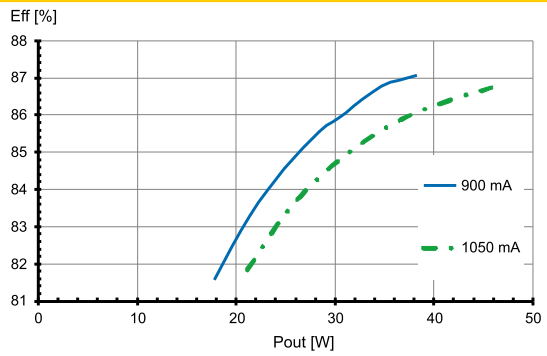
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Typ. performance graphs for 186932, 186966 / Type ECXe 1050.388

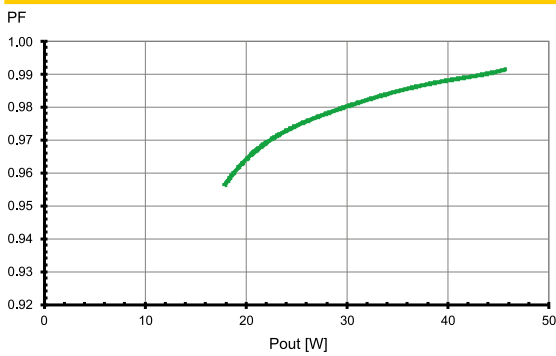
Working area



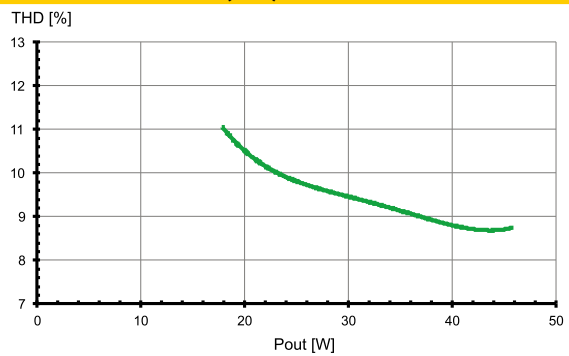
Efficiency



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 shut down and protect the control gear.
The control gear switches on again automatically within the permissible temperatures.
- 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.

Compatibility of track rails

Suitable for following tracks

- Erco
- Eutrac
- Globaltrac
- Iguzzini
- Zumtobel

Not suitable for

- IG DALI

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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

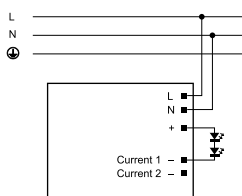
- DIN VDE 0100
- EN 60598-1

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
- Electrical connection: Hand insertion tooling by www.avx.com Ref. No.: 069176701601000
- 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.		
		B 10 A	B 13 A	B 16 A
Automatic cut-out type B				
ECXe 1050.388	186932, 186966	37	48	59
Automatic cut-out type C				
ECXe 1050.388	186932, 186966	37	48	59

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