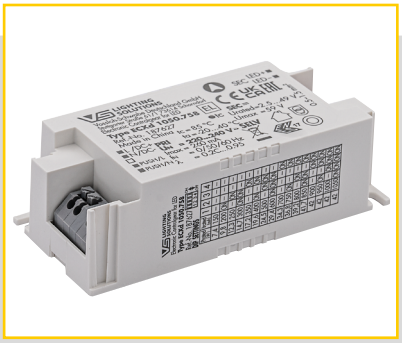
CC COMPACT DIP SWITCH DIMMABLE



BLU2LIGHT PRIMELINE DIP SWITCH C CASAMBI

187627

Typical Applications

Built-in in compact luminaires for

- Shop lighting
- Office lighting
- Residential lighting
- Downlights

Blu2Light

CASAMBI

Blu2Light PrimeLine DIP switch C Casambi

- **SELECTABLE OUTPUT CURRENT VIA DIP SWITCH**
- **DIMMABLE: BLU2LIGHT CASAMBI**
- **SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172 (EL)**
- **SELV**
- **LONG SERVICE LIFE: UP TO 100.000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**

5 YEARS GUARANTEE

LIGHTING SOLUTIONS

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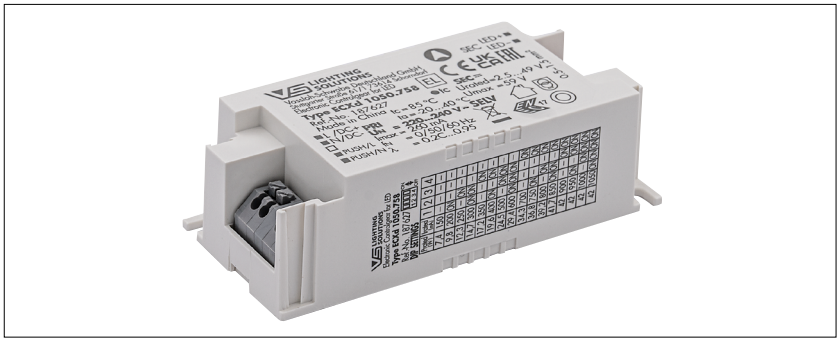
Blu2Light PrimeLine DIP switch C Casambi



Product features
- Compact casing shape

Functions
- Selectable current output by DIP switch
- Blu2Light Casambi Technology
- 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, 0 Hz
- DC Operation: 176-276 V
- Push-in terminals:
  rigid 0.5–1.5 mm²
  strand 0.75–1.5 mm²
- Power factor at full load: > 0.95
- 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
- Overload protection
- Degree of protection: IP20
- Protection class II
- SELV
- SVM: < 0.4
- PstLM: < 1

Packaging units

Ref. No.	Packaging unit		
	Pieces per box	Boxes per pallet	Weight g
187627	60	32	110

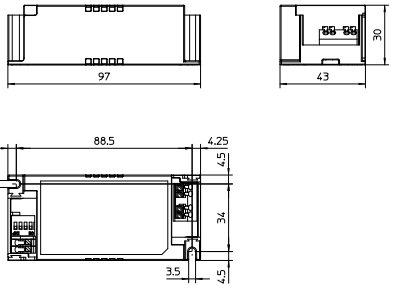
Product guarantee
- 5 years
  for operation at recommended operation temperature (see table for expected service life time on the next page)
- The conditions for the Product Guarantee of the Vossloh-Schwabe Group shall apply as published on our homepage (www.vossloh-schwabe.com).
  We will be happy to send you these conditions upon request.

IP20 · SELV · 110 · OVERLOAD PROTECTION · Service Lifetime 100 000 hours · Guarantee 5 years

Dimensions

Ref. No.	Casing	Length mm	Width mm	Height mm
187627	K86.1	97	43	30

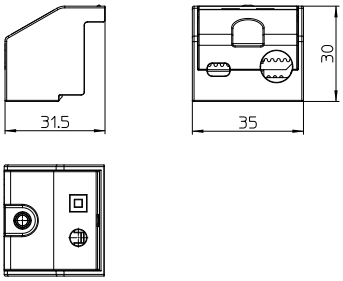
K86.1



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

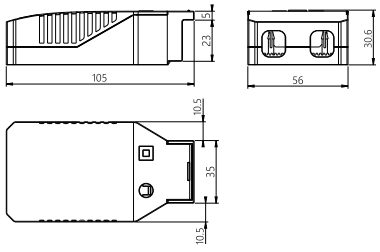
Cord grip "ws" for K86.1

A cord grip consists of an upper and lower part and a corresponding screw for fixing.
For independent operation without through-wiring two cord grips 'ws' are required for each LED driver.
For independent operation with through-wiring one cord grip 'LILO' is required for through-wiring on the primary side and one cord grip 'ws' for the the secondary side.
Permitted diameter of the cable mantle:
small hole (left side): 3-6 mm
big hole (right side): 6-9 mm
Packaging unit: 60 pcs.
Ref.No.: 187641 (1 pcs. cord grip "ws")



Cord grip "LILO" for K86.1

A cord grip consists of an upper and lower part and two screws for mounting.
For independent operation with through-wiring a cord grip 'LILO' is required for through-wiring on the primary side and a cord grip 'ws' or 'sl' is required for the secondary side.
Permitted diameter of the cable mantle: 3,5-11 mm
Packaging unit: 20 pcs.
Ref.No.: 187642 (1 pcs. cord grip "LILO")



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Electrical characteristics

Max. output W	Type	**Ref. No.**	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 %
42	ECXd 1050.758	**187627**	220–240	214–198	10 / 32	150–1050	2.5–49	< 5	90	< 3

Maximum ratings

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

Ref. No.	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	
187627	–20	+40	20	90	–25	+60	20	90	+85	IP20

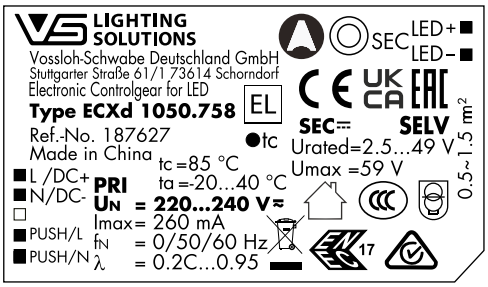
Expected service life time

at operation temperatures at t_c point

Operation current	Ref. No. 187627	
All	75 °C*	85 °C
hrs.	100.000	50.000

* recommended operation temperature

Product labels



DIP switch settings

187627 / ECXd 1050.758						
Pin				Power	Current	Default
1	2	3	4	W	mA	settings (mA)
OFF	OFF	OFF	OFF	7.4	150	700
ON	OFF	OFF	OFF	9.8	200	
OFF	**ON**	OFF	OFF	12.3	250	
OFF	**ON**	OFF	OFF	14.7	300	
ON	OFF	**ON**	OFF	17.2	350	
OFF	OFF	**ON**	OFF	19.6	400	
ON	**ON**	**ON**	OFF	24.5	500	
ON	**ON**	**ON**	OFF	29.4	600	
OFF	OFF	OFF	**ON**	34.3	700	
ON	OFF	OFF	**ON**	36.8	750	
OFF	**ON**	OFF	**ON**	39.1	800	
OFF	**ON**	OFF	**ON**	41.7	850	
ON	OFF	**ON**	**ON**	42	900	
OFF	OFF	**ON**	**ON**	42	950	
ON	**ON**	**ON**	**ON**	42	1000	
ON	**ON**	**ON**	**ON**	42	1050	

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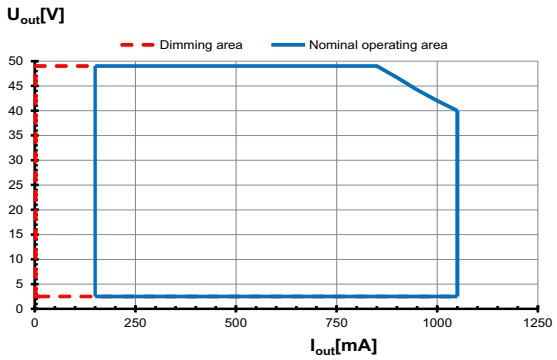
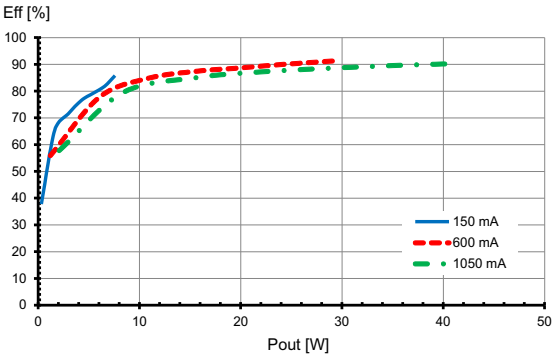
Typ. performance graphs for 187627 / Type ECXd 1050.758

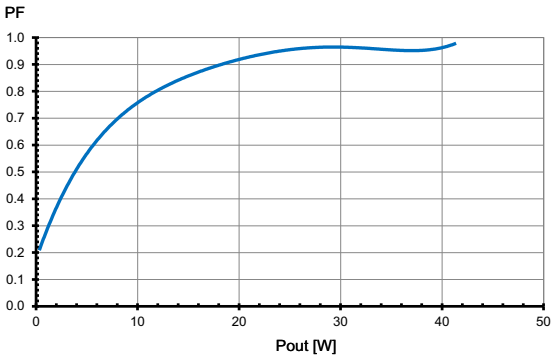
Working area



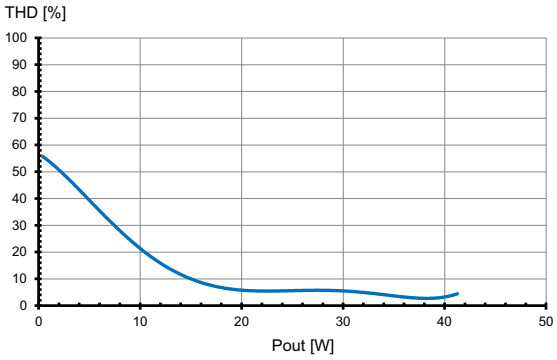
Efficiency



Power factor



Total harmonic factor (THD)



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. In case of overheating the output current of the control gear will be reduced. After the temperature will drop below the critical temperature value, the output current rises again to the previously set value.
- 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.

PUSH function

Push dimming operation		
Action	**Action duration**	**Function**
Short push	< 0.5 s	Turn on/off
Long push	> 0.5 s	Dimming up or dimming down

- The factory default brightness is at 100%
- Up to 30 drivers can perform the PUSH dimming function at the same time when connected to one common push button.
- The maximum length of the cable from the push button to the last driver is 200 m.
- The minimum dimming value for the PUSH function can be set by the CASAMBI App.
- The factory default settings of the PUSH dimming range are: 0-100%

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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

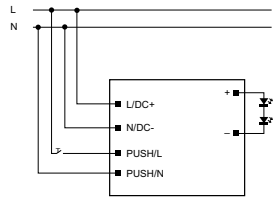
- DIN VDE 0100
- EN 60598-1

Mechanical mounting

- Mounting position: Built-in: Any position inside a luminaire is allowed.
  Independent application: Drivers are allowed to use for independent applications with separate cord grip (see page 2).
- 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
  rigid 0.5–1.5 mm²
  strand 0.75–1.5 mm²
- Stripped length: 7–8 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: 2 m
- Polarity: Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- 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.
- Parallel wiring: Parallel connection of LED loads is not allowed.
- Wiring diagram:



PUSH

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 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 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A
ECXd 1050.758	**187627**	42	54	67	42	54	67

– 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.

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