# CC COMPACT DIP SWITCH DIMMABLE





# COMFORTLINE DIP SWITCH C DALI2-MEMORYDATA

187444, 187445

# **Typical Applications**

Built-in in compact luminaires for

- Shop lighting
- Office lighting
- Downlights

# ComfortLine DIP Switch C DALI2-MemoryDate

- SELECTABLE OUTPUT CURRENT VIA DIP SWITCH
- DIMMABLE: DALI (ED.2) MEMORY DATA SPECIFICATION (PARTS 251/252/253)
- VARIOUS CORD GRIPS CAN BE FITTED
- SELV
- SUITABLE FOR EMERGENCY ESCAPE LIGHTING SYSTEMS ACC. TO EN 50172
- LONG SERVICE LIFE: UP TO 100.000 HRS.



PRODUCT GUARANTEE: 5 YEARS

# **ComfortLine DIP switch** C DALI2-MemoryData

### **Product features**

Compact casing shape

### **Functions**

- Selectable current output by dip-switch
- 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 (range of application)
- Push-in terminals: rigid 0.5-1.5 mm<sup>2</sup> strand 0.75-1.5 mm<sup>2</sup>
- Power factor at full load: > 0.95
- Open circuit voltage (U<sub>max.</sub>): 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 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	Weight						
	per box	per pallet	9					
187444	20	200	85					
187445	20	200	128					

# **Product guarantee**

• 5 years

CC-ComfortLine-DIP-switch-C-DALI2-MemoryData\_187444-187445\_EN - 2/6 - 04/2025

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.

























# **Dimming**

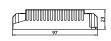
Analogue

### **Dimensions**

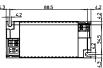
Ref. No.	Casing	Length	Width	Height
		mm	mm	mm
ALL	K107	97	43	23

Ref. No.	Casing	Length	Width	Height
		mm	mm	mm
ALL	K107	97	43	23

# K107







# Cord grip "sl" for K107

Available for independent operation

1 Cord-Grip contains one upper and one lower part Available separately

2 cord grips per LED driver required Permitted diameter of the cable mantle: 3-7mm

Packaging unit: 20 pcs.

Ref. No.: 187450 (1 pcs Cord Grip sl for K107)

# Cord grip "ws" for K107

Available for independent operation Available separately

2 cord grips per LED driver required Permitted diameter of the cable mantle: 3-9mm Packaging unit: 20 pcs.

**Ref. No.: 187451** (1pcs Cord Grip ws for K107)

# Cord grip "LILO" for K107

Available for independent operation Available separately

Permitted diameter of the cable mantle: 5-12mm Packaging unit: 20 pcs.

**Best.-Nr.: 187452** (1pcs LILO(5pin) for K107)



- EN 61347-1
- EN 61347-2-13
- EN 61547
- EN 61000-3-2/EN 61000-3-3
- EN 62384
- EN 55015
- EN 61000-4-2/EN 61000-4-5
- IEC 62386 ed.2 part 101/102/207/251/252/253

























# **Electrical characteristics**

Мах.	Туре	Ref. No.	Voltage	Mains	Inrush Current Vo		Voltage	THD	Efficiency	Ripple
output			50-60 Hz	current	current output DC o		output	at full load	at full load	100 Hz
W			V	mA	A / μs	mA (± 5%; for 14W ± 7,5%)	DC (V)	% (230 V)	% (230 V)	%
30	ECXd 700.679	187444	220-240	165-125	9/39	350-700	9-42	5	89	<5
44	ECXd 1050.680	187445	220-240	245-190	11/52	700-1050	9-42	5	89	<5

# **Maximum ratings**

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

ı	Ref. No.	Ambient temperature		Operation humidity		Storage temperature		Storage humidity		Max. operation	Degree of
		range			range		range		temperature at t <sub>c</sub> point	protection	
		°C min.	°C max.	% min.	% max.	°C min.	°C max.	% min.	% max.	°C	
	187444, 187445	-20	+45	10	60	-40	+85	5	95	+85	IP20

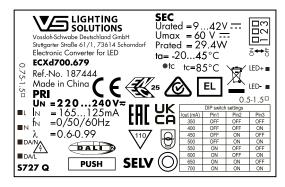
# **Expected service life time**

at operation temperatures at t<sub>c</sub> point

Operation	Ref. No.	
current	187444, 187445	
All	75 °C*	85 °C
hrs.	100.000	50.000

<sup>\*</sup> recommended operation temperature

# **Product labels**



Vossloh-Schwabe Deutschland GmbH to Shutgarter Straße 61/1, 73614 Schondorf Electronic Converter for LED  ECXd1050.680  RefNo. 187445 Made in China PRI UN = 220240V	Vrated = 9. Umax = 60. Prated = 44. ta= -204. tc=85.	) V <del></del> 4.1W 5°C		8 ↔ 5 LED+ ■
	UK $\square$	DIP switch	settings	
■	lout (mA)	Pin1	Pin2	Pin3
$I_{-1}$ f <sub>N</sub> = 0/50/60Hz <b>LIIL</b>	LH 700	OFF	OFF	OFF
-0'40'00 <del></del>	750	OFF	OFF	ON
	800	OFF	ON	OFF
■DA/N	850	OFF	ON	ON
DALLO V	950	ON	OFF	ON
DA/L CFIX	1000	ON	ON	OFF
S727 Q PUSH SELV	1050	ON	ON	ON
5/2/ 4				

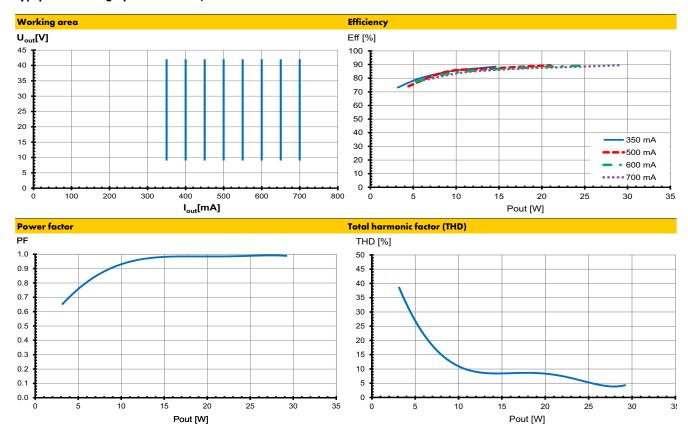


# **DIP** switch settings

1874	187444 / ECXd 700.679										
Pin			Output	Current	Voltage	Factory-					
1	2	3	W	mA	٧	settings (mA)					
OFF	OFF	OFF	14.7	350	9-42	350					
OFF	OFF	ON	16.8	400							
OFF	ON	OFF	18.9	450							
OFF	ON	ON	21	500							
ON	OFF	OFF	23.1	550							
ON	OFF	ON	25.2	600	]						
ON	ON	OFF	27.3	650							
ON	ON	ON	29.4	700							

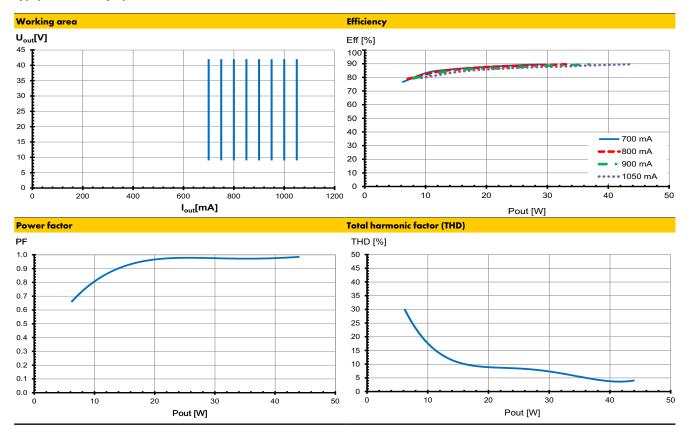
187445/ ECXd 1050.680										
Pin			Output	Current	Voltage	Factory-				
1	2	3	W	mA	٧	settings (mA)				
OFF	OFF	OFF	29.4	700	9-42	700				
OFF	OFF	ON	31.5	750						
OFF	ON	OFF	33.6	800	]					
OFF	ON	ON	35 <i>.</i> 7	850						
ON	OFF	OFF	37.8	900	1					
ON	OFF	ON	39.9	950						
ON	ON	OFF	42	1000	]					
ON	ON	ON	44.1	1050						

# Typ. performance graphs for 187444 / ECXd 700.679





# Typ. performance graphs for 187445/ECXd 1050.680



# 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
 ...

 Overload protection: The control gear only works in range of rated output power and voltage problemfree

(< 60 V DC).

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 (Tc max. + approx. 10°)

In the control gear has overheating (Tc max. + approx. 10°).

the output current of the control gear will be reduced to 30%. 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.



# **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.

• 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<sub>c</sub> point must not exceed the

specified maximum value.

• Fastening: Using M4 screws in the designated holes

• Tightening torque: 0.2 Nn

# **Electrical installation**

Connection

terminals: Push-in terminals for rigid or flexible conductors

with a section of

built-in: 0,5-1,5mm² PVC cable independent: 0,75-1,5mm² PVC cable

• 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.

• Through-wiring: Is not allowed.

• Secondary load: The sum of forward voltages of LED loads is

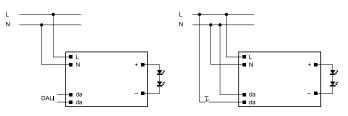
within the tolerances which are mentioned in the Electrical Characteristics on the data

sheet.

Parallel wiring: Parallel connection of LED loads is not

allowed.

• Wiring diagram:



Note: Max. quantity of drivers at one push button: 30

### 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 m $\Omega$  (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-ou	t type	B 10 A	B 13 A	B 16 A	C 10 A	C 13 A	C 16 A	
ECXd 700.679	187444	55	72	88	55	72	88	
ECXd 1050.680	187445	37	48	59	37	48	59	

 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.

