

CONRAD 1006456 Dimmable LED Driver with DALI Control Input Instruction Manual

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Typen: 1006456, 1006194 **Instruction Manual**

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1006456 Dimmable LED Driver with DALI Control Input

The secondary switching of the LEDs in operation is not allowed.

When the device has been switched off, there is some temporary voltage remaining on the secondary output, which decomposes within about 10 minutes. At this stage, no LEDs may be connected, as they will be damaged otherwise. In order to remove the residual voltage, short-circuit the contacts on the secondary output (LEDs may not be connected).

In principle, we recommend short-circuiting the contacts on the secondary output before connecting LEDs with the device switched off.

Description and Mounting Instructions

Dimmable LED Driver with DALI control input and adjustable constant output current for the operation of LED Optional with connectable RF-module

(Electronic power supply unit) Types: 1006456, 1006194

1. Technical Data:

Art-No.		1006436	1006194	
		LBDWC12W350NLR		
Rated voltage			220-240 V- 50-60 Hz	
Rated currer	nt		75 mA	
Power Facto	r		0.5-0.9 C	
DC voltage i	range (operation)		186-280 V	
DC voltage ((start)		186 V	
Constant ou	tput current range		150-350 mA	
Output powe	er range		1.5-12 W	
Preset outpu	ut current		200 mA	250 mA
Shared load	operation		2-8 W	2.5-10 W
Secondary v	Secondary voltage		10-40 Vdc SELV	
Open circuit	Open circuit voltage		< 60 V	
Open circuit	safety		guaranteed	
Dimming Ra	nge		1-100 %	
Dimming technique			Amplitude (AM)	
Standby power			< 0.5 W	
Protection class			II	
Short circuit and overload protection			electronic disconnection with automatic restart	
Ambient temperature to			-20 °C - +50 °C	
Case temperature tc-point			max. 85 °C	
Standards		EN 61347. EN 62384. EN 62493 EN 55015, EN 61547, EN 61000-3-2. EN 61000-3-3 EN 62386-101. EN 62386-102. EN 62386-207		
Cable (Ter minals)	Diameter of wire s / Bared wire e nd	PRI SEC	0.5-1.5 mm2/ 9 mm	
Max. Wire le	Max. Wire length SEC		max. 2 m	

The NFC interface provides a wireless communication with the LED driver. With the NFC Application software Android / iOS or Microsoft Windows and corresponding NFC interface, optional HEP NFC reader SANF-01 (Microsoft Windows), the output current can be configured according to the output current range given in the table. Correct communication between the LED driver and the NFC antenna can only be ensured if the NFC antenna is applied directly to the driver. The NFC complies with the ISO / IEC 15693 standard. The HEP Group assumes no liability for third-party products. Due to incorrect setup of output current, the LEDs and /or the driver may be destroyed. Thus no guarantee is given.

3. DALI

The DALI control input is basic-isolated to the mains input. In addition, it is protected against mains voltage and is reverse polarity protected for digital control signals. The input is tested in compliance with DALI-2 DT6 standard. The device does not contain a DALI bus voltage supply.

4. RF-Modul

The RF module is a wireless control unit that controls the LED driver. This module is connected to the secondary side of the LED driver by means of a plug connector. Metallic objects can impair the radio signal (e.g. the frame of a lamp). In this case, a cutout may be required below the antenna. The device should also be installed as far away as possible from other metal objects. The antenna is in the position shown on the last page.

About the RESET function of the Zigbee dongle, it depends on the maintenance time after the power is turned off. The following procedure ensures that the module enters pairing mode.

Repeat "ON for one second and OFF for 3 seconds" for five times, then the output will flash.

5. Installation Instructions

The installation may only be carried out by an electrical specialist in accordance with international and national standards.

When working on electrical systems, protection against electric shock is to be ensured by disconnecting the system.

Install primary and secondary mains intersection-free (RFI protection). Keep the wiring as short as possible.

The maximum output wire length of 2 m must not be exceeded.

Before switching on the supply voltage all LED must be completely wired and connected!

The driver are not "hot plug" capable (connecting the LED module during operation) and secondary switching of the LEDs in operation is not allowed.

The LED Driver is strictly suited for the use with LED that requires a constant current.

When connecting the LED, careful attention should be paid to connecting + and – to the right terminals on the LED Driver.

The LED control gear has no secondary reverse polarity protection. LED modules can be destroyed in reverse polarity.

If LED Drivers mounted outside of luminaires, careful attention is to be paid to the connecting cables and the lamp cables being fastened securely in the strain relief.

The ta or to temperature may not be exceeded for any kind of mounting. The specified minimum distances are guidelines and dependent upon of the used luminaire or environment (see last page).

The devices do not contain any serviceable components and may not be opened. No warranty if device was opened!

The LED Driver cannot be regulated via a phase cut-on or cut-off dimmer!

6. DC voltage range

The device listed above can be operated in the DC voltage range specified above. The test is not a release in

the sense of the Emergency Lighting regulation (EL).

7. Overvoltage

Our LED Drivers are surge-voltage-stable with values above those prescribed by the respective standards. As a protection against high voltage surges, as they occur e.g. when switching fluorescent lamps and discharge lamps with an inductive ballast, motors (fans, etc.) and other inductive charges, the load circuits for devices of this kind are to be clearly separated from each other.

8. Short circuit / overload

In case of a short circuit or overload the LED Driver will automatically cut off. It does not have a fuse of the conventional kind. Thus the load circuit is not separated! As soon as the defect has been repaired, the LED Driver will automatically cut back in.

9. Excess Temperature

In case of excess temperature through external heat sources or impermissible covers the function will be interrupted. The mains will not be disconnected. As soon as the LED Driver has cooled off, it will automatically cut back in.

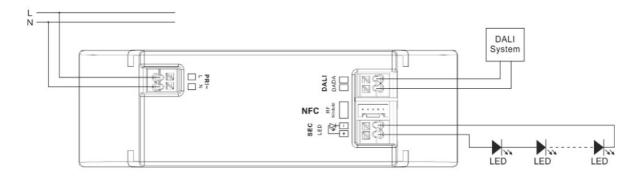
10. Heat Dissipation and Heat Transfer

Operation in excess ambient temperature or through external heating will reduce the service life. During the installation process (particularly into luminaires), heat dissipation (heat transfer) is to be provided through suitable measures. The ambient temperature and/or to temperature may not be exceeded at any time. We are not liable for damage resulting from improper use.

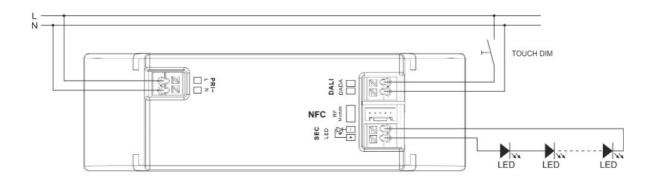
Installation diagram

DALI is basic insulated to PRI and double insulated to SEC The maximum output wire length of 2 m must not be exceeded.

DALI:



TouchDIM:

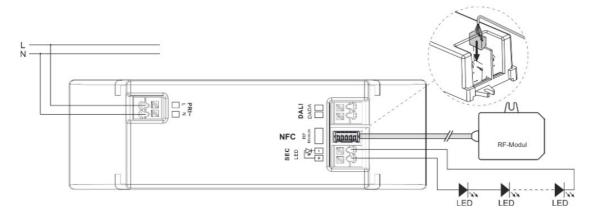


Short push (< 0.6 s) Long push (> 0.6 s)	Push to turn ON-OFF Dimming up or down	Max. lead lenght TouchDIM Max. parallel units	20 m 15 pcs
Long pasir (> 0.0 3)	Diffining up of down	wax. paraner units	10 pcs

Synchronization of a large number of driver of TouchDIM

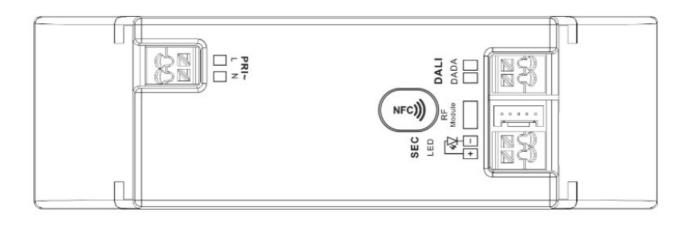
1. Step: 2. Step: 3. Step:	Long push Short push Long push	All the lamps are switched on All the lamps are switched off All the lamps are switched on the minimum dimming setting of the drivers and c ontinuously. Fade up to the desired dimming level, then release push button.
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Wireless:



Artno.	Module	Wireless protocol	APP	Available for
1006199 (WZS B)	SLV	ZigBee 3.0	SLV VALETO	Android / iOS
1006454 (WBS D)	CASAMBI	Bluetooth Low Energ y (LE)	CASAMBI	Android / iOS

NFC:



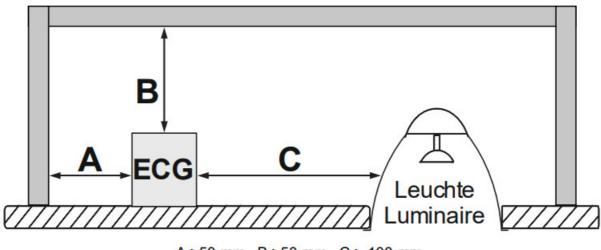
Р	rogrammable with:	HEP NFC Reader SANF and HEP Software NFCApplication (Microsoft Windows) Android / iOS smartphone app HEPxNFC	

Strain relief



Installation condition

The specified minimum distances are guidelines and dependent upon of the used luminaire or environment.



A >50 mm B >50 mm C > 100 mm



Do not dispose the product with the regular household waste! Products marked with this sign must be disposed according to the directive on electrical and electronic devices at local collection points for such devices!

Art.-No. 1006456, 1006194

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Documents / Resources



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