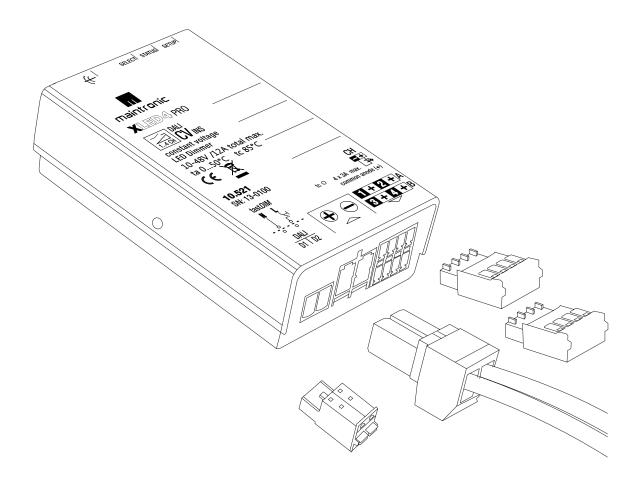
XLED4 CV Casambi

1-4 Casambi+DALI LED-Converter 10-48V



H3e

F1.7

Manual

Valid from the following versions: (H=Hardware F=Firmware) 10.541 - **XLED4 CV Casambi** XLED4_PRO_CV_Casambi_manual_EN Document Date: 14.12.2020



1. Safety instructions



For your own safety, read all instructions and information in this manual carefully before initial operation. Keep this manual for future reference.

The instructions are an integral part of the product and must be handed to the end customer.

All information and instructions in this manual must be observed completely and in detail. The manufactuer is not responsible for any direct or consequential damage that results from disregarding any information in this manual.



Vaste disposal

In accordance with European Directive 2002/96/ EC (it's) not longer usable electronic devices and defective or used batteries (European Directive 2006/66EG)

must collected separately and disposed by an environmentally sound recycling.

This symbol indicates that electrical and electronic equipment must be disposed of separately from normal waste at the end of its operational lifetime. Should these product are no longer be useable, the user is required by law to dispose of old appliances separately from their household waste e. g. at a local authority collection point or recycling center.



The interior and the connectors of the amplifier holds hazardous voltages.

The unit must only be installed and serviced by a proven electrican specialist, in accordance of all relevant regulations, safety and accident prevention directives of the country.

Be sure that the existing mains voltage corresponds with the specified operating voltage before operating the device.

Risk of electric shock. Do not operate the device without a cover. Even when switched off, voltage may be present at the outputs. When working on the device or connected loads, always disconnect the upstream fuse from the power supply.

Only install the device in places with a good ventilation and without humidity or high temperatures. Do not expose the unit to rain or snow. Do not operate the unit near heat sources, e.g. radiators.

Do not open the device. Otherwise you will risk a damage and void the warranty.

The unit should be serviced by qualified personnel when the unit:

- objects have fallen or liquid has been spilled into the unit
- does not appear to operate normally
- has been dropped or has a broken housing

For cleaning only use a dry, soft cloth, by no means liquids.

2. Introduction

Thanks a lot

Congratulations and thank you for choosing this *maintronic* product and the trust you have placed in us. We, the team of *maintronic*, wish you a lot of fun with this product.

About this Document

Due to continuous product development, some of the information may not be complete and up-to-date.

The information in this document is subject to change without prior notice. Please check our website www.maintronic.de, if there is a newer version.

Contact maintronic support

You can find downloads, manuals, onlinehelp as well as frequently asked questions (FAQ) on our Website www.maintronic.de. Please contact us, should any problems regarding your product arise.

Legals

The division building automation and all associated products are products of MTC maintronic[®] GmbH (hereafter maintronic). All rights reserved, as well as mistakes and typing errors.

The trademarks and trade names mentioned in this document are the property of their respective owners.

Intended use

The device may only be used:

- as a dimmer for switching and dimming lights
- firmly in a dry and clean environment
- approved for indoor use only
- access is only possible with tools
- operate on a powersupply with 10...48V DC
- with a backup fuse of max. 16A

Functions / Features

- 1-4 CH LED-Dimmer Constant Voltage
- Control with CASAMBI, DALI and PushButton
- Tuneable white / RGB+W / 1...4 Channels
- 17,6A max. Output Power | 4,4A / CH
- Plus Features: variable Fade-Time, Soft-Off, Dimmspeed

3. Initial operation

The dimmer can be controlled parallel with DALI and Casambi.

For example, the building lighting management system can take over the general control via DALI. In addition, every user can make individual settings on site via smartphone.

The dimmer keeps track of the hierarchy that the last one wins. This means that the last set brightness remains until the next change.

3.1 Operation with DALI

The dimmer XLED CV DALI works according to the DALI standard. Device type 6 (LED module).

The device search assigns a short address to each of the 4 device channels (or channel groups if channels are linked). Please see for further information the operating instructions for your DALI controller or gateway. As usual in DALI, each of the four DALI shortaddresses of a device can be assigned to any groups and scenes.

Power On Level = MASK (the last stored brightness value is taken over after approx. 90 sec. As last memory level) and will be set at the next power up.

3.2 Operation with 230V PushButton

Alternatively, the DALI input can also be used as a PushButton input.

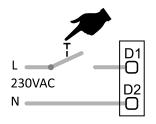


A voltage of 230V AC is connected to the DALI contacts. (**) Button 230V against N at the DALI input (not SELV)!

WARNING - Due to the fact that 230V are applied, no further DALI operating device may be connected in the same circuit when using the DALI input as a PushButton!

Multiple buttons can be used in parallel, also several PushButton compatible devices can be operated in parallel.

Functions with external PushButton	keystroke
Switch On- / Off	short press
Dimming Up and Down (Start at Min Level)	long press
Switching to Max Level	2x short press
Synchronization of the connected devices	press 10 sec.



3.3 Operation with DeviceButton SELECT-Button

Functions SELECT-Button

Channel selection (starting with channel 1) for manual dimming via the SETUP-Button. If channels are linked accordingly selection. Confirmation by flashing the STATUS LED.

Physical selection via DALI

Procedure Physical Selection:

- Select DALI command "PHYSICAL SELECTION"
 Press SELECT-Button 1x (select channel 1)
- 3. When pressed again, the next channel (or
- When pressed again, the next channel (of linked channel group) is selected, after channel 4 it starts again with channel 1
 Confirmation by STATUS LED flashing

Reset factory settings

There is a reset of all parameters in the delivery state. A successful reset is signaled by the status LED. ! Reset within 30 minutes after POWER_ON.

keystroke

1...4 x short press Selection channel 1-4 or channel group

1...4 x short press Selection channel 1-4 or channel group

press 10 sec.

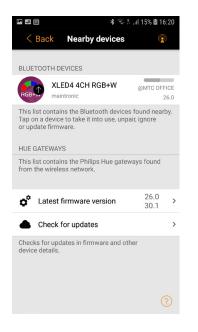
SETUP-Button

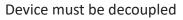
Functions SELECT-Button	keystroke
Switch On- / Off	short press
Dimming Up and Down (Start at Min Level)	long press
Switching to Max Level	2x short press

3.4 Operation with Casambi

▲ Important

In order to select a certain mode of operation, a Casambi profile must be selected with the Casambi APP when learning the device.





XLED4 4CH RGB+W

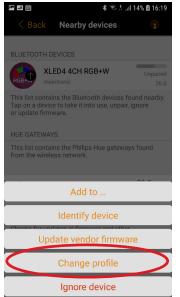
Start update

The update may take up to one minute to complete. Do not close the application or move away from the target device before it is complete.

-**A**

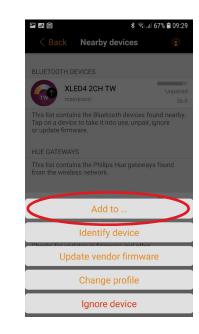
< Back

🕯 🗟 л 🛙 16% 🖻 16:22



Click on the menu item

Change profile.



Start the update ... after selecting the profile

On the menu item "Use in my network".



Select the desired operating mode (profile).



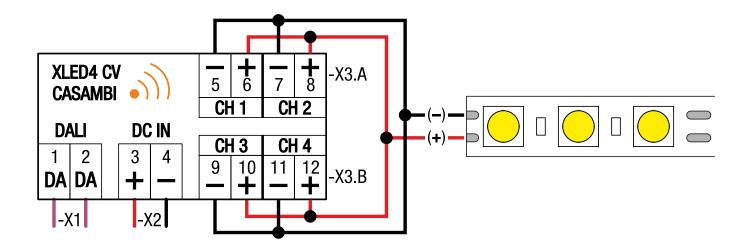
The desired profile is now loaded.

Select a suitable profile for your project on the following pages.

Profile: 1 CH linked

Channel 1+2+3+4 linked together One single brightness controller 17,6 A Power DALI DT6 1 DALI short adress







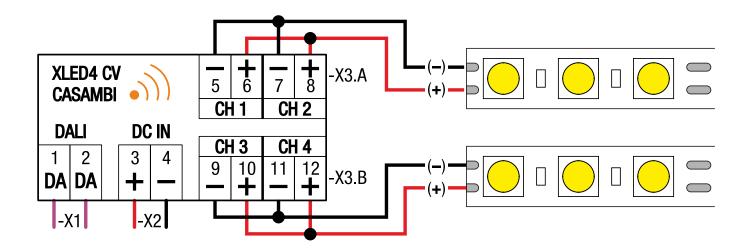


A single brightness slider

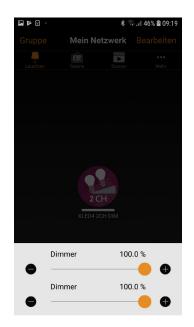
Profile: 2 CH linked

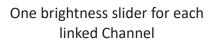
Channel 1+2 linked together Channel 3+4 linked together 8,8 A power each channel DALI DT6 2 DALI short adress

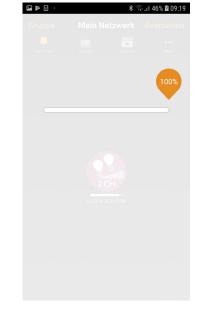








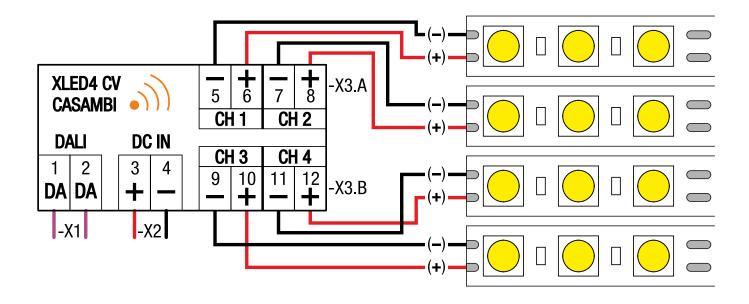




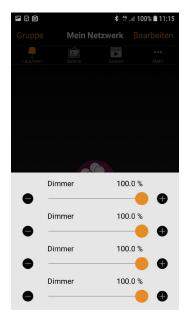
Profile: 4 CH Standalone

4 individually controllable channels 4,4 A power each channel DALI DT6 4 DALI short adress







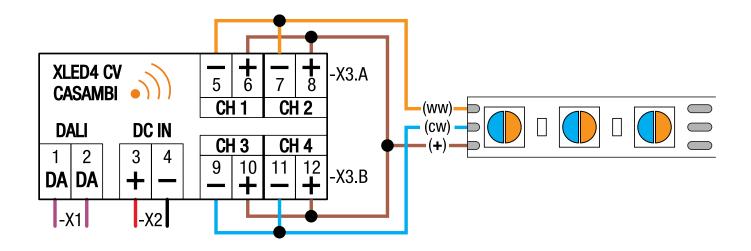


One brightness slider for each channel

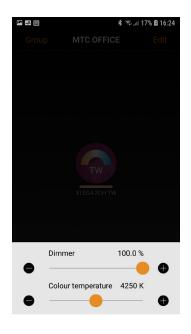
Profil: TW-Tunable white

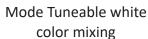
Channel 1+2 linked for warmwhite (ww) Channel 3+4 linked for coldwhite (cw) 8,8 A power each linked channel DALI DT8 1 DALI Kurzadresse









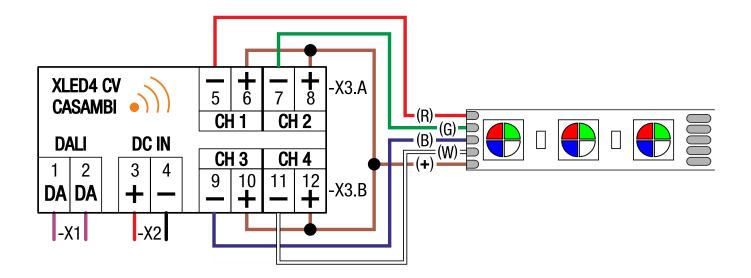




Profile: RGB+W

4 Channel LED RGB+W Dimmer 4,4 A Power each channel DALI DT8 1 DALI short adress







P 🎿 🗎		🖘 ավ 15% [
Group		CE		
Din	nmer	0.0 %		
•			0	
Wh	ite/Colour	100.0 %		
• -			•	
Col	our	34		
•			Ð	
Col	our saturation	74.5 %		
• -		•	•	
\bigcirc				

RGB+W mode Color mixing

Casambi parameters:

Parameters	RGB+W enable	TW enable	1CH enable	2CH enable	4CH enable	keystroke	Value range
PWM Frequency	Х	х	Х	Х	Х	PWM frequency adjustable - default 976Hz	122Hz bis 976Hz
Fade time	Х	х	Х	Х	Х	The dimming time to move from a brightness value to another.	0100 s
Dimming Curve	х	-	х	х	х	Selectable Dimming Curve: logarithmic 1000 logarithmic 100 linear	
Min. Level CH1CH4	-	-	х	х	х	Min. Level - lowest brightness	0.1100 %
Max. Level CH1CH4	-	-	х	х	х	Max. Level - maximum brightness	0.1100 %
Calibration CH1CH4	Х	Х	х	Х	х	For calibrating of each channels	0.1100 %
TW Ratio cw	-	Х	-	-	-	Ratio of cold white to warm white	11000
TW Ratio ww	-	х	-	-	-	Ratio of warm white to cold white	11000
TW Max. Level	-	х	-	-	-	Max. Level - maximum brightness in TW mode	11000
TW Ext. Brightness	-	х	-	-	-	Color value remains the same, brightness is changed Color desaturates at brightness 100%	11000
PushButton Style	х	х	х	х	х	maintronic - Special functions whitemode and ext. brightness are active. Casambi signals are passed through, behaving like a standard wireless pushbutton. Other Casambi devices can be controlled.	
PushButton Whitemode	Х	-	-	-	-	Double-click leaves current color and turns white	
Whitemode Level	х	-	-	-	-	Start brightness for whitemode	
PushButton Ext. Brightness	х	-	-	-	-	Color value remains the same, brightness is changed Color desaturates at brightness 100%	11000



I

Carl-Zeiss-Str. 10-14 97424 Schweinfurt / Germany Tel. +49(0)9721-7766 0 Fax. +49(0)9721-7766 18 www.maintronic.de info@maintronic.de

I

www.maintronic.de