



BLUETOOTH® WIRELESS
TECHNOLOGY DEVICES
AS DALI-CONTROLLER



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Blu2Light – The intelligent wireless lighting control solution

Blu2Light is the first completely open Bluetooth® wireless technology system with mesh functionality for the professional lighting market, which, in addition to a variety of functions for lighting control, offers the luminaire manufacturer added IoT benefits with maximum system security.

Blu2Light Casambi LumController

The Blu2Light Casambi LumController is used to control LED drivers with a 0-10 V, 1-10 V or DALI dimming interface. It functions both as a controller and as a power supply, enabling direct connection to an LED driver with a DALI interface. The product is maintenance-free thanks to direct supply via mains voltage. It is installed in the luminaire or in a standard flush-mounted box.

Blu2Light Casambi LumController

- **AUTOMATICALLY FORMS A FAST CASAMBI BLUETOOTH MESH NETWORK THANKS TO THE INTEGRATED BLUETOOTH® MESH RADIO MODULE**
- **OPERATING MODES: DALI DT8 TW, RGB, RGBW AND DALI BROADCAST**
- **DIRECT SUPPLY VIA MAINS VOLTAGE**
- **INSTALLATION IN LUMINAIRE OR STANDARD FLUSH-MOUNTED BOX**
- **OPERATING LIFETIME: 50,000 HRS.**
- **PRODUCT GUARANTEE: 5 YEARS**



Blu2Light Casambi LumController

Module with Bluetooth® wireless technology

For built-in into flush-mounted boxes or luminaires

Dimensions: 56.5 x 35.8 x 22.3 mm

- Configurable analog/digital output
- Analog output: 0-10 V sinking/supplying
- Digital output: standalone DALI
- Easily implemented RGB and color temperature control
- Controllable switched mains output



ATTENTION:

- The module must be connected to the 230 V AC supply.
- Pay attention to the correct polarity of L and N.

Type Ref. No.	Blu2Light Casambi LumController 187573
Communication	Casambi Mesh Network
Frequency range	2402–2480 MHz
HF output power	+8 dBm
Power consumption standby/operation	1.1 W / 100 W max. output power Relay contact
Power supply	220–240 V AC / 50 Hz / 0,6 A
Ambient temperature t _a	-20 ... +50 °C
Max. Housing temperature t _c	+75 °C, t _c reference point on the rear side
IP protection	IP20
Protection class	II
Dimensions	56.5 x 35.8 x 22.3 mm
Casing	Plastic SK2
Weight	48 g
Connection leads	0.75 - 1.5 mm², 14-22 AWG
0 - 10 V output	0 - 10 V DC, max. current 6 mA
DALI output	9 - 12 V DC, max. current 6 mA

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.

50 000
hours
Min. Service Lifetime

Guarantee
5 years

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Blu2Light Casambi LumController

General Safety and Mounting Instructions

- Only qualified persons are allowed to install Blu2Light Casambi products.
- Prior to installing and commissioning the system, read these instructions carefully. Only this will guarantee correct and safe handling. Please keep these instructions as you may need them later.
- The devices must always be disconnected before any work is carried out on them.
- The applicable safety and accident prevention regulations must be observed.
- Opening by unqualified personnel of the products is prohibited: Risk of death from electric shock!
The devices must only be repaired by the manufacturer.
- Only AC voltage may be connected.

Mounting

- Pay attention to the correct polarity according to the connection markings!
- L and N must be connected correctly and must not be interchanged.

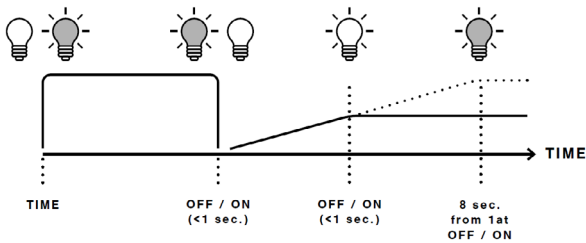
Installation instructions

- The module must be connected to the 230 V AC supply.
Ensure that the polarity of L and N is correct.
- The interfaces for 0-10V and DALI are not designed in SELV as standard.
Cables must be mains voltage-proof.
- Running the DALI bus cable together with the mains cable in one cable is permitted up to a maximum of 100 m, e.g. with NYM 5x1.5 mm². Please ensure that the maximum length for the DALI bus is observed during installation:

	2.5/ 1.5mm²	1mm²	0.75mm²	0.5mm²
6.2 Ω max.	300m	180m	130m	80m

Dimming without APP

1. switch the light on using a wall switch.
2. quickly switch the wall switch off (max. 1 sec.) and on again.
The light intensity gradually increases.
3. switch the switch back to the desired dimming level.
The selected level is saved automatically.
4. if the button is not pressed a second time within 8 seconds, the light intensity reaches the maximum level.
5. you can also switch between predefined scenes by flipping the switch.



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Setup and operation

- The Blu2Light Casambi devices can be configured and operated with the Casambi app.
- For the exact procedure for the configuration of the devices please refer to the instructions in the app or in the corresponding documentation.
- A tablet or smartphone is required for setup and operation. Both are not included in the scope of delivery.

Bluetooth® wireless technology

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Important note:

Please refer to the installation instructions included with the product and the applicable Blu2Light system data sheet before installation. Make sure that the Bluetooth radio signal can propagate freely according to the specifications.



We, Vossloh-Schwabe Deutschland GmbH, herewith confirm that these devices comply with the basic requirements of the directive 2014/53 / EU and other relevant directives. The entire text of the declaration of conformity can be obtained from the following address:
www.vossloh-schwabe.com

Vossloh-Schwabe Deutschland GmbH
Stuttgarter Straße 61/1
D-73614 Schorndorf
Germany

Blu2Light Light Management – Blu2Light Casambi LumController

Profile Name	Description	Wiring diagram
DALI DT8 2xDim, TW	A tuneable white profile with two dimming sliders, one for each dimmable channel of the connected driver. A slider to control the color temperature of the connected driver. The DALI short address is automatically assigned. Relay output is always on.	1
DALI DT8 3xDim,TW	Three dimming sliders, one for each dimmable channel of the connected driver. A slider to control the color temperature of the connected driver. The DALI short address is automatically assigned. Relay output is always on.	1
DALI DT8 RGB	Three dimming sliders, one for each dimmable channel of the connected driver. Sliders to control the color of the RGBWAF -color type driver, and a color saturation slider. The DALI short address is automatically assigned. Relay output is always on.	1
DALI DT8 RGB+TW 2500-7000K	Dimmable fixture with mutually exclusive RGB or color temperature sliders to control light color, color saturation and color temperature of the white color between 2500 and 7000 K. The DALI short address is automatically assigned. Relay output is always on.	1
DALI DT8 RGBW	4-channel compatible RGBW DALI DT8 profile supporting "RGBWAF" -color type. Dimming, white, color and color saturation sliders to control light color / white. White color slider in percentage levels. The DALI short address is automatically assigned. Relay output is always on.	1
DALI DT8 TW 2700-6500K	A tuneable white profile with a dimming slider and a slider to set the color temperature between 2700 and 6500 Kelvins. Supports TC color model. The DALI short address is automatically assigned. Relay output is always on.	1
DALI DT8 TW 3000-5000K	A tuneable white profile with a dimming slider and a slider to set the color temperature between 3000 and 5000 Kelvins. Supports TC color model. The DALI short address is automatically assigned. Relay output is always on.	1
IDALI/BC DT8 TW	A tuneable white profile with a dimming slider and a slider to set the color temperature between 2700 and 6500 Kelvins. Supports XY color control. DALI in broadcast mode. Relay output is always on.	1
DALI DT8 XY (EVO)	A color control profile with a dimming slider and a slider to set the color with X and Y sliders. Supports XY color control. DALI in broadcast mode. Relay output is OFF at 0% dimming level, ON at levels above 0%.	1,2
DALI DT8 XY,TW (EVO)	A tuneable white and color control profile with a dimming slider, a slider to set the color temperature between 2000 and 7000 Kelvins and X and Y sliders to control the color. Supports XY color control. DALI address is automatically assigned. Relay output is OFF at 0% dimming level, ON at levels above 0%.	1,2
DALI Broadcast NO RELAY (log)	A basic DALI broadcasting dimmer for one one-channel DALI driver. Dimming curve is logarithmic. No addressing required. Relay is always on.	1
DALI 1xDIM (AO)	A basic DALI broadcasting dimmer for one one-channel DALI driver. Preconfiguration of the connected driver is needed. Driver having address #0 is controlled. Dimming curve is logarithmic. Relay is OFF at 0% and ON at levels above 0% needed. Driver having address #0 is controlled. Dimming curve is logarithmic. Relay is OFF at 0% and ON at levels above 0%.	1,2
DALI Broadcast (min)	A basic DALI broadcasting dimmer for one one-channel DALI driver. No preconfiguration of the driver is needed. DALI configuration mode is minimal, only light control commands are used. Dimming curve is logarithmic. Relay is OFF at 0% and ON at levels above 0%.	1,2
DALI Broadcast (new) (lin)	A basic DALI broadcasting dimmer for one one-channel DALI driver. No preconfiguration of the driver is needed. Dimming curve is linear, relay is OFF at 0% and ON at levels above 0%.	1,2
DALI Broadcast (new) (log)	A basic DALI broadcasting dimmer for one one-channel DALI driver. No preconfiguration of the driver is needed. Dimming curve is logarithmic, relay is OFF at 0% and ON at levels above 0%.	1,2
CBU-ASD (0/1- 10)	A basic 0-10 V or 1-10 V dimmer. Wiring diagram 2 depicts the relay operation for 0-10 V application.	1,2
DALI/ BC+Sensors	A dimmer for a DALI driver and a DALI sensor (lux and presence) combination. Driver is broadcast controlled. Relay is always on.	3
CBU-ASD DALI Sensors (Daylight control, Presence)	A fixture for one DALI sensor providing presence and/or daylight sensing in the Pass-Through mode - delivering control commands observed on DALI bus. Sensor is using DALI levels to control the dimming output.	4
CBU-ASD DALI Sensors (Lux, Presence)	A fixture for one DALI sensor providing presence and/or daylight sensing in the Pass-Through mode - delivering control commands observed on DALI bus. Sensor provides LUX values.	4
DALI 2CH Dim Up/Down	A fixture for a two-channel up/down luminaire where the vertical ratio is selected with a slider. Both channels are dimmed with an another slider as sum of the channels. DALI addresses of the driver/drivers have to be preconfigured as A0=Up and A1=Down. DALI dimming curve is logarithmic. Relay is always on.	5,6
DALI 2CH TW (G0,G1)	A two channel warm/cool mixer for preconfigured two DALI groups, G0=Warm, G1=Cool. A slider to control light level and colour temperature between 2700 and 6500 K. Dimming curve is logarithmic. Relay always on.	5,6
DALI 2xDIM	A fixture with two dimming sliders to control either one two-channel driver or two one-channel drivers. Dimmer #1 controls A0, dimmer #2 controls A1. DALI configuration is done automatically if not preconfigured, DALI dimming curve is logarithmic. Relay is constantly on.	5,6
DALI 2xDIM (G0,G1)	A fixture with two dimming sliders to control either one two-channel driver or two one-channel drivers. Dimmer #1 controls G0, dimmer #2 controls G1. DALI groups have to be preprogrammed into driver/drivers. DALI dimming curve is logarithmic. Relay is constantly on.	5,6

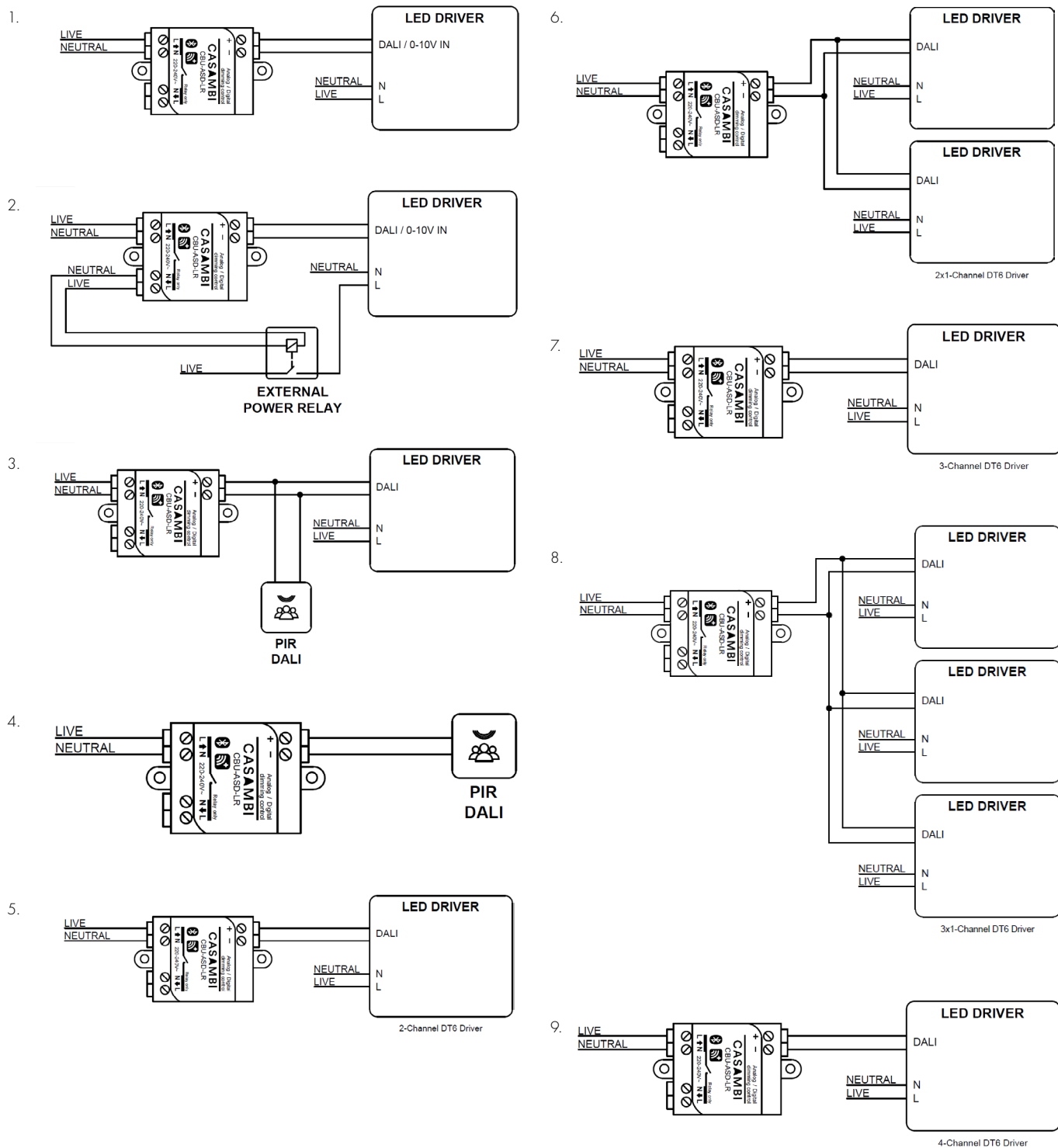
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Blu2Light Light Management – Blu2Light Casambi LumController

Profile Name	Description	Wiring diagram
DALI 2xDIM (preconfigured)	A fixture with two dimming sliders to control either one two-channel driver or two one-channel drivers. Dimmer #1 controls A0, dimmer #2 controls A1. DALI addresses have to be preconfigured. DALI dimming curve is logarithmic. Relay is constantly on.	5,6
DALI Tuneable White	A two channel warm/cool mixer for two preconfigured DALI addresses between 2700 K and 6000 K. Address A0 is the warm channel, A1 is the cool channel. Driver has to be preconfigured. DALI dimming curve is logarithmic. Relay is always on.	5,6
DALI 2xDim, TW(NoMix) shared	A two channel warm/cool profile where preconfigured A0 is the channel to be dimmed, A1 is the color temperature channel between 2700 and 6000 K. DALI dimming curve is logarithmic. Relay is always on.	5
DALI Tuneable White (G0,G1)	A two channel warm/cool profile where preconfigured group G0 is the warm channel, G1 is the cool channel. Color temperature between 2700 and 6000 K. DALI dimming curve is logarithmic. Relay is always on. DALI configuration is minimal.	5,6
DALI Tuneable White (auto)	A two-channel warm/cool profile where ASD configures A0 for the warm channel and A1 for the cool channel. Color temperature between 2700 and 6000 K. DALI dimming curve is logarithmic. Relay is always on.	5,6
DALI 3xDIM	A three-channel profile with three separate slider per each channel. The driver is programmed with addresses A0, A1 and A2 to correspond with the dimmable channels. Dimming curve is logarithmic. Relay is always on.	7,8
DALI RGB	A RGB profile with dimmer, color and color saturation sliders. Driver/drivers need to be preprogrammed with DALI channels: A0 to correspond RED color, A1 to Green and A2 to Blue. Dimming curve is logarithmic. Relay is off at 0% and on at levels above 0%.	7,8
DALI RGB (auto)	A RGB profile with dimmer, color and color saturation sliders. Driver/drivers automatically programmed with DALI channels: A0 to correspond RED color, A1 to Green and A2 to Blue. Dimming curve is logarithmic. Relay is always on.	7,8
DALI 2xDim,TW	A tunable white profile with dimming and color temperature slider between 2700 and 6500 K. Driver/drivers are automatically programmed with a DALI address. Dimming curve is linear. Relay is always on.	9,10
DALI 4xDIM	A fixture containing four dimming sliders for four groups. Drivers have to be programmed with Group addresses in DALI as G0 Dimmer1, G1 Dimmer2, G2 Dimmer3, G3 Dimmer4. Dimming curve is logarithmic. Relay is always on.	9,10
DALI 4xDIM (G0..G3)	A fixture containing four dimming sliders for four groups. Drivers have to be programmed with Group addresses in DALI as G0 Dimmer1, G1 Dimmer2, G2 Dimmer3, G3 Dimmer4. Dimming curve is logarithmic. Relay is always on.	9,10
DALI 4xDIM (new)	A fixture containing four dimming sliders for four groups. Drivers are programmed automatically to have addresses A0 for Dimmer1, A1 Dimmer2, A2 Dimmer3 and A3 Dimmer4. Dimming curve is logarithmic. Relay is always on.	9,10
DALI RGB White	A fixture with dimmer, white color adjustment, color and color saturation sliders. Drivers and/or channels have to be preconfigured as A0 Red, A1 Green, A2 Blue and A3 White. Dimming curve is logarithmic. Relay is always on.	9,10
DALI RGB White (auto)	A fixture with dimmer, white color adjustment, color and color saturation sliders. Drivers and/or channels are programmed, if not preconfigured, as A0 Red, A1 Green, A2 Blue and A3 White. Dimming curve is logarithmic. Relay is always on.	9,10
DALI RELAY 1CH Dim	A DALI-controllable relay profile where a slider in app controls the DALI relay on or off. ASD unit's own relay also follows the control.	11
CBU-ASD Relay	A DALI-controllable relay profile where a slider in app controls the DALI relay on or off. The ASD unit's own relay also follows the control.	11
ASD/Presence	ASD acts as a presence trigger. Powering on ASD causes a sensor trigger. ASD appears under "sensors" in the Casambi App.	12
CBU-ASD Relay+PB	ASD unit's solid state relay output is connected with a momentary button in the Casambi App.	13
Push Button	ASD operates as a push button. Powering on the ASD acts as a button press.	14

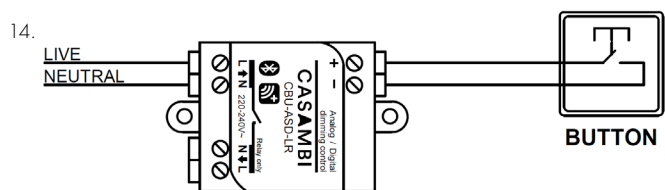
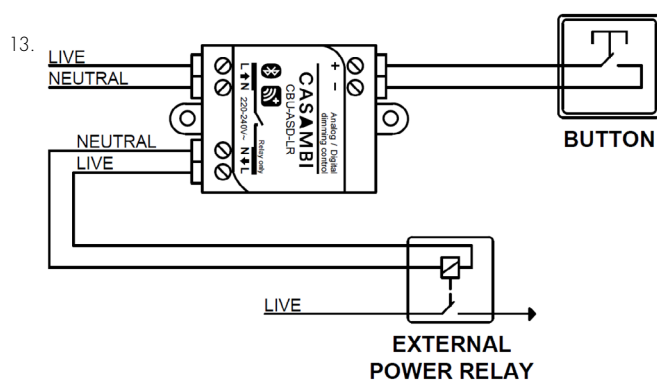
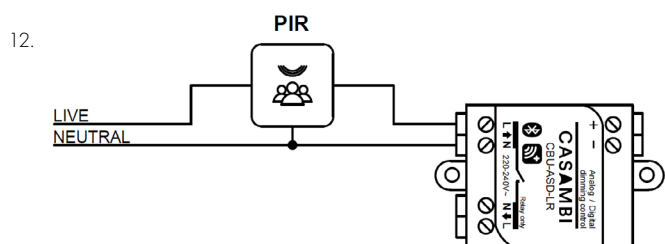
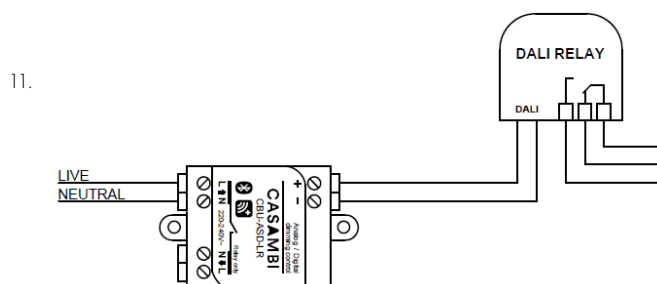
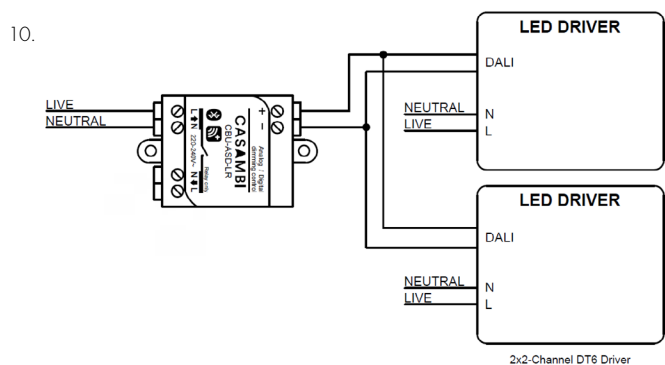
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Connection diagram



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Connection diagram



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