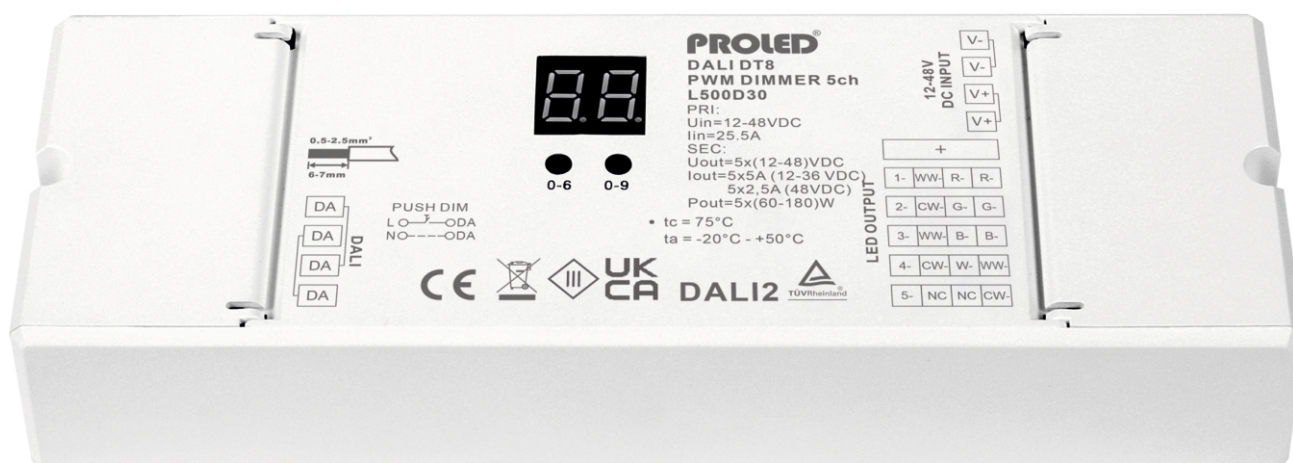# PROLED®

DALI DT8 PWM DIMMER 5-Kanal
DALI DT8 PWM DIMMER 5-Channel
L500D30

Bedienungsanleitung
User's manual

Preface

Thanks for choosing PROLED DALI DT8 PWM DIMMER 5-Channel. Before installation and use, we strongly recommend you to read this manual carefully. If the device has been damaged during transport, please report this to your supplier immediately. Please don't take any action without contacting your supplier first.

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Limited Warrenty

In case of quality problems we provide free repair or replacement within one year from the day of purchase, if this product has been used properly in accordance with the user's manual, except in following cases:

1. Any defects caused by wrong operation.
2. Any damages caused by unauthorized removal, maintenance, modifying, incorrect connection and replacement of chips.
3. Any damages due to transportation, vibration etc. after purchase.
4. Any damages caused by earthquake, fire, lightning, pollution and abnormal voltage.
5. Any damages caused by negligence, inappropriate storing at high temperatures and humidity or near harmful chemicals.
6. Product has been updated.

Safety Warnings

1. Please don't install this dimmer during thunderstorms, intense magnetic or high-voltage electrical fields. To reduce the risk of component damage and fire caused by a short circuit, make sure, that all connections are correct.
2. Always be sure to mount this unit in an area with proper ventilation to avoid overheating.
3. Check voltage and power requierements of the dimmer as well as the polarity of the power supply.
4. Never connect any cables while power is switched on and always assure correct connections to avoid short circuit before switching on.
5. Never attempt any repairs yourself; otherwise the manufacturer's warranty will be void.
6. For update information please consult your supplier.

1. Product description

PROLED DALI DT8 PWM DIMMER 5-Channel allows controlling of Luminaires, Panels, Flex Strip etc., by DALI DT8/DT6 signal or PUSH-DIM (230 VAC). Possible Setups are Tc, XY, RGBWAF, 2x Tc, XY+Tc, XY+W (DT6) and DT6.
In case of power line failures, dimmer stores the last setting and restart back with this setting, when power line exist again.
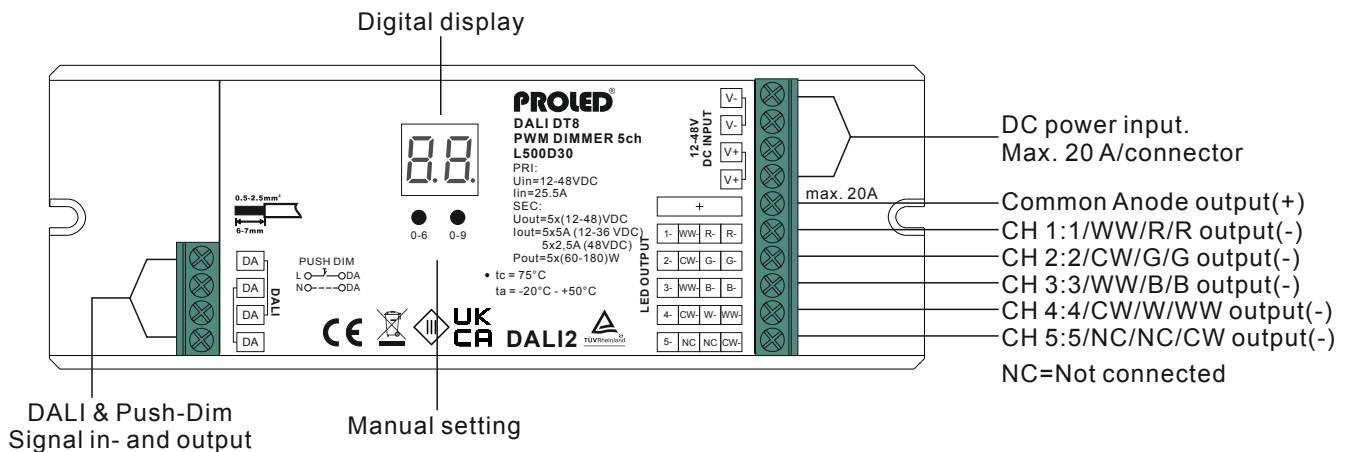
2. Technical Data

Modell	PROLED DALI DT8 PWM DIMMER 5-Channel
Input Voltage	12 – 48 VDC
Output	5x 5A max. (48V: 5x 2,5 A)
Power consumption	< 1 W
Ambient temperature	-10°C – 45°C
Dimensions	170 mm x 59 mm x 29 mm (LxWxH)
Net-weight	160 g

3. Specifications

1. 8 different DALI signal (DT8 and DT6) inputs possible.
2. DALI starting address also manually settable.
3. DALI2 Signal compatible as well as PUSH-DIM (230 VAC).
4. At failures on the mains, the last setting will be stored and used after restarting.

CE ⊠ ◇ IP20 UK CA

4. Usage

Digital display

DC power input.
Max. 20 A/connector

Common Anode output(+)
CH 1:1/WW/R/R output(-)
CH 2:2/CW/G/G output(-)
CH 3:3/WW/B/B output(-)
CH 4:4/CW/W/WW output(-)
CH 5:5/NC/NC/CW output(-)

NC=Not connected

DALI & Push-Dim
Signal in- and output

Manual setting

DALI input signal setting

Press both buttons together untill the display start blinking. Now realease the buttons.
By pressing one of the two buttons, you can switch between the 8 settings.

Tc means 2x Tc. With 2 DALI-Addresses you can control 2 groups of Dynamic White luminiares.

Hc means XY & Tc. With 2 DALI-Addresses you can control a RGB and a Dynamic White luminaire separately.

rc means RGBAWF & Tc. With 2 DALI-Addresses you can control a RGB and a Dynamic White luminaire separately.

H6 means XY & DT6. With 2 DALI-Addressesyou can control a RGB and white luminiare separately. Channel 4+5 do the same.

T6 means DT6. One DALI-Address will be used for all channels. White luminiares can be controlled.

HY means XY coordinates. With one DALI-Address one RGB luminiare will be controlled.

Tc means Tc. With one DALI-Address one Dynamic White luminaires will be controlled. Channel 1+3 and 2+4 do the same.

r9 means RGBWAF. With one DALI-Address you can control RGB+CCT luminaires.

DALI Address setted by DALI Master

When a DALI dimming signal has been choosed, the DALI Address will be setted automatically by a DALI Master. Please check your manual of DALI-Master.

Display shows AU , when the DALI-Master set the address automatically.

At combined setting, the controller will get 2 addresses.

DALI Addresse setted manually

Press and hold the first button untill the display blink. Release the button.

First button changes the „tens" (0-6) and second button changes the „ones" (0-9). Address can be set from 00 - 63.

Press and hold one of the two buttons till the display stop blinking to confirm the setting or wait untill the display stop blinking.

Attention: Addresses can be set manually between 00-63, FF. Factory default no address is setted and the display shows FF . DALI-Address as FF set the dimmer back to factory default.

To set FF, set on the „tens" 6 and press the „ones" so many times untill after 64 FF is displayed.

When a Address is set, than the dimmer takes, depending on the choosen mode, one or two addresses. In multi-address-mode, when for example addresse 22 is setted, the dimmer uses address 22 & 23. In single-mode only address 22 will be used.

PUSH-DIM Mode

When at DALI-input a AC-button is connected, the display will show „PD" after the AC button has been used once, what shows the dimmer is now in PUSH-DIM-mode.

When Tc or $\neg c$ mode is choosen, dynamic white luminaires can be controlled by the button. In this case channel 1+3 and channel 2+4 do the same.
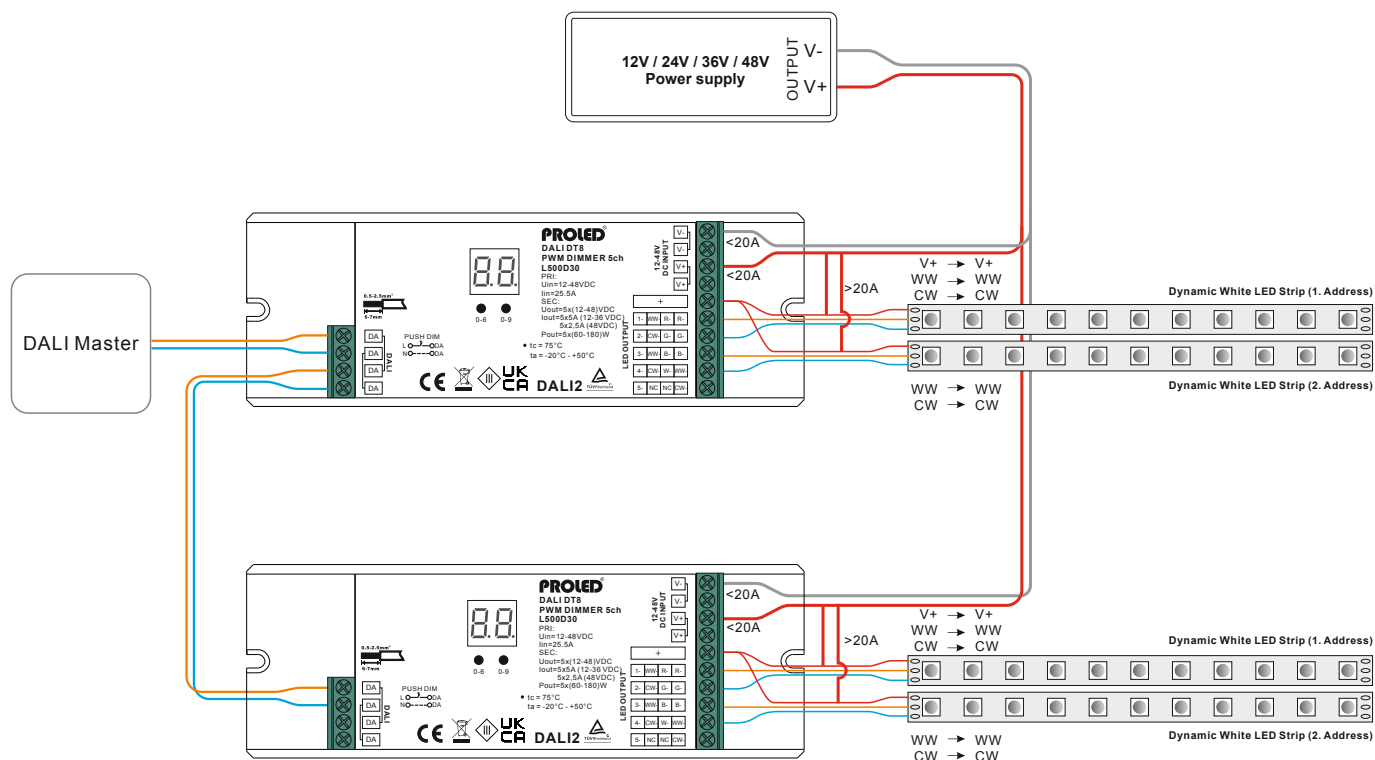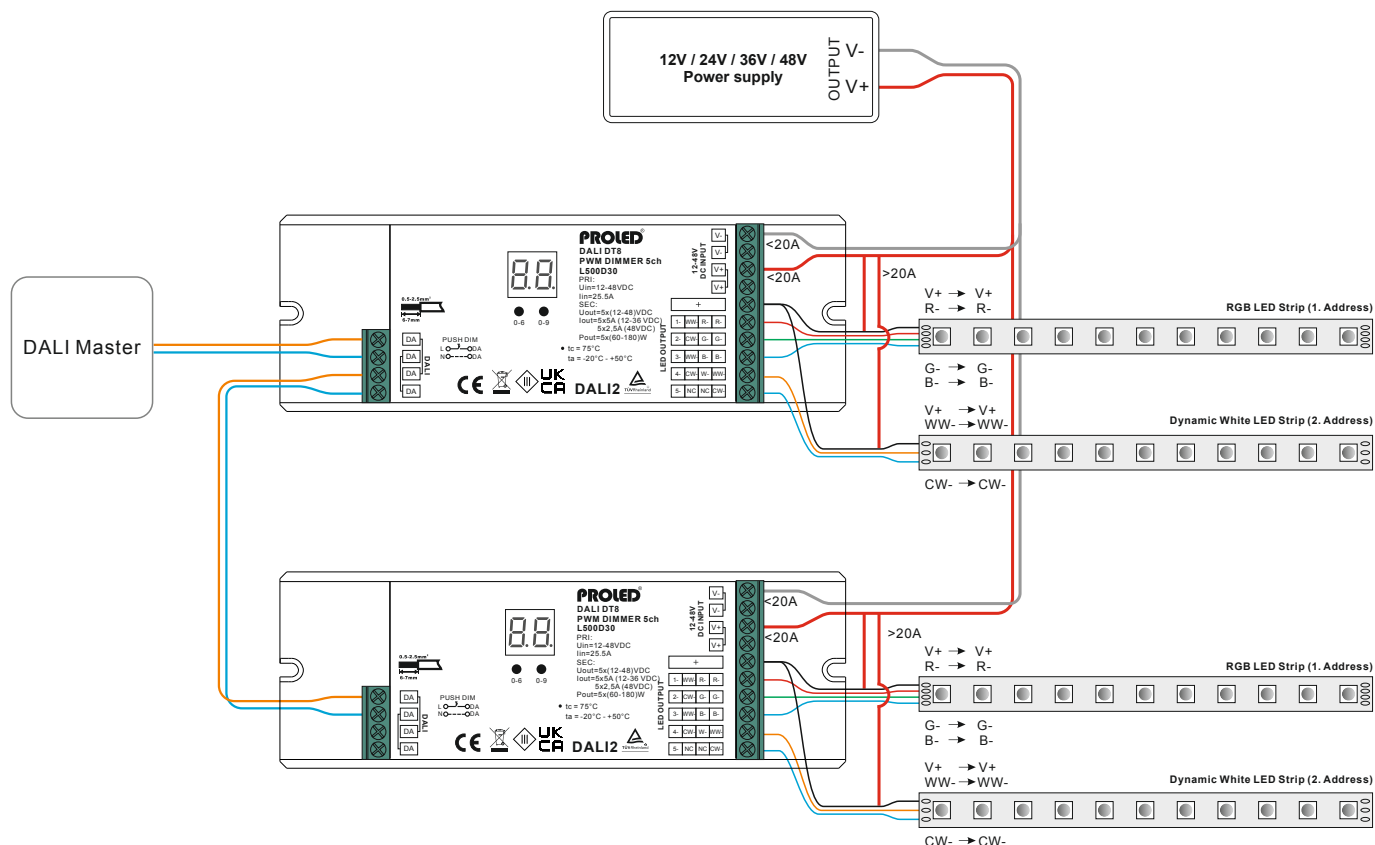- Press the button to switch on or off the luminiare.
- Press and hold the button to rise or lower the brightness. Press the button again to dimm in opposite direction.
- Double click on the button change the modus between brightness and colour temperature.
- Press and hold the button to adjust the colour temperature in colour-temperature-mode.

When Hc or rc or $H6$ or $H4$ or $r9$ mode is choosen, only RGB luminaires will be controlled by the button.
- Press the button to switch on or off the luminiare.
- Press and hold the button to rise or lower the brightness. Press the button again to dimm in opposite direction.
- Double click on the button change the modus between brightness and RGB colour mode.
- Press and hold the button to adjust the RGB-colour in RGB-colour-mode.

When $\neg6$ mode is choosen, monochromatic luminaires can be controlled by the button.
- Press the button to switch on or off the luminiare.
- Press and hold the button to rise or lower the brightness. Press the button again to dimm in opposite direction.
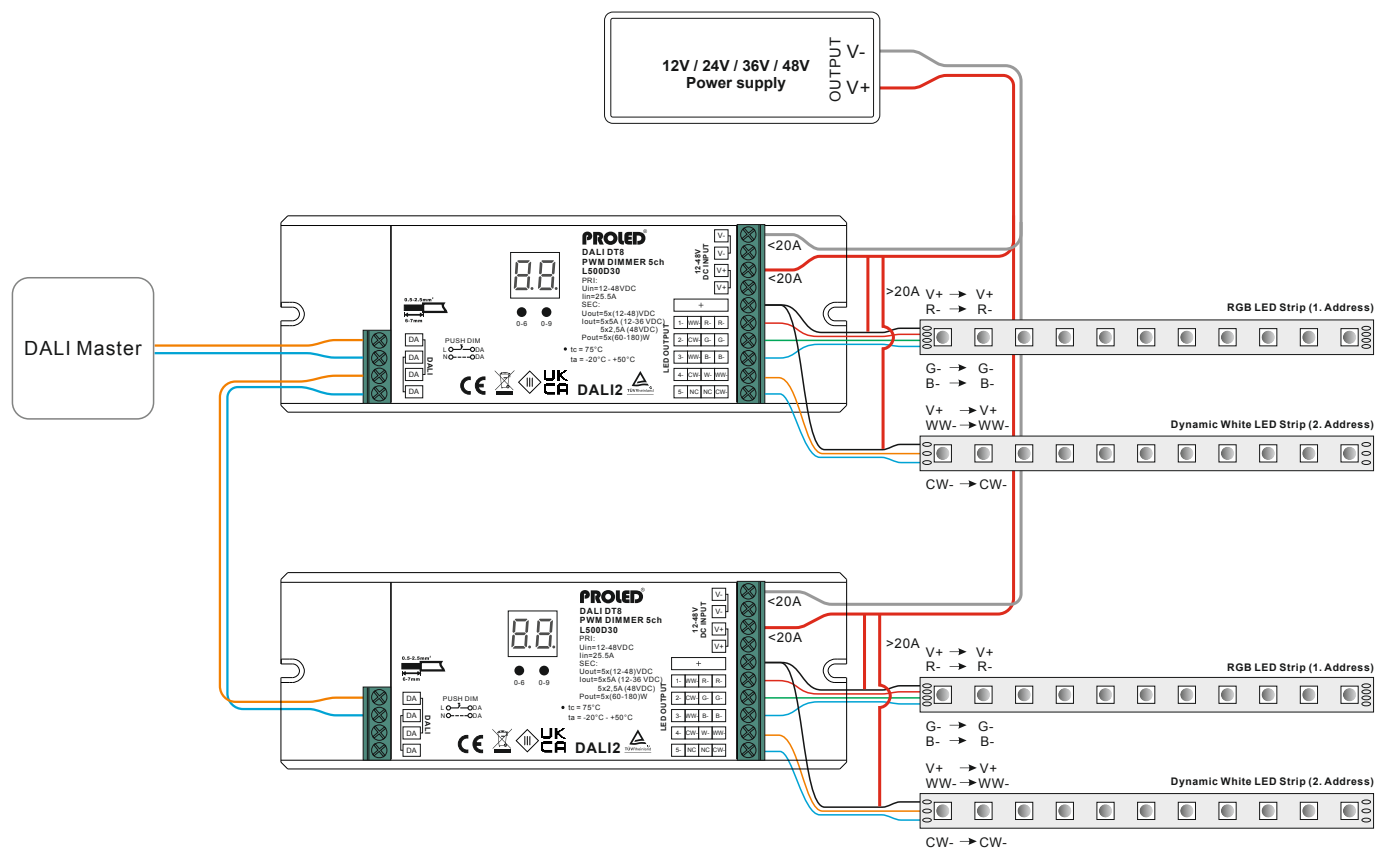
5. Connection diagramm for DALI control

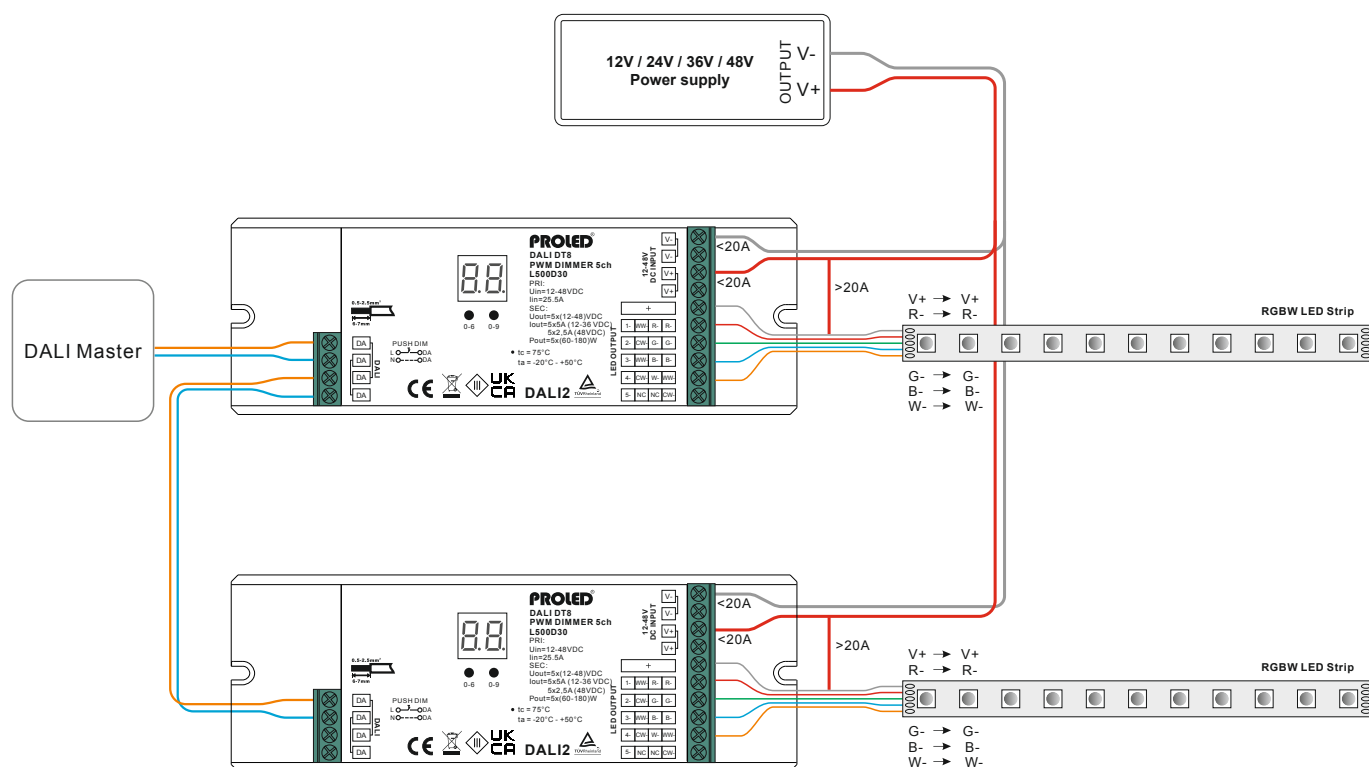## DALI Master with ⁊.c mode Dynamic White (2 DALI-Addresses)
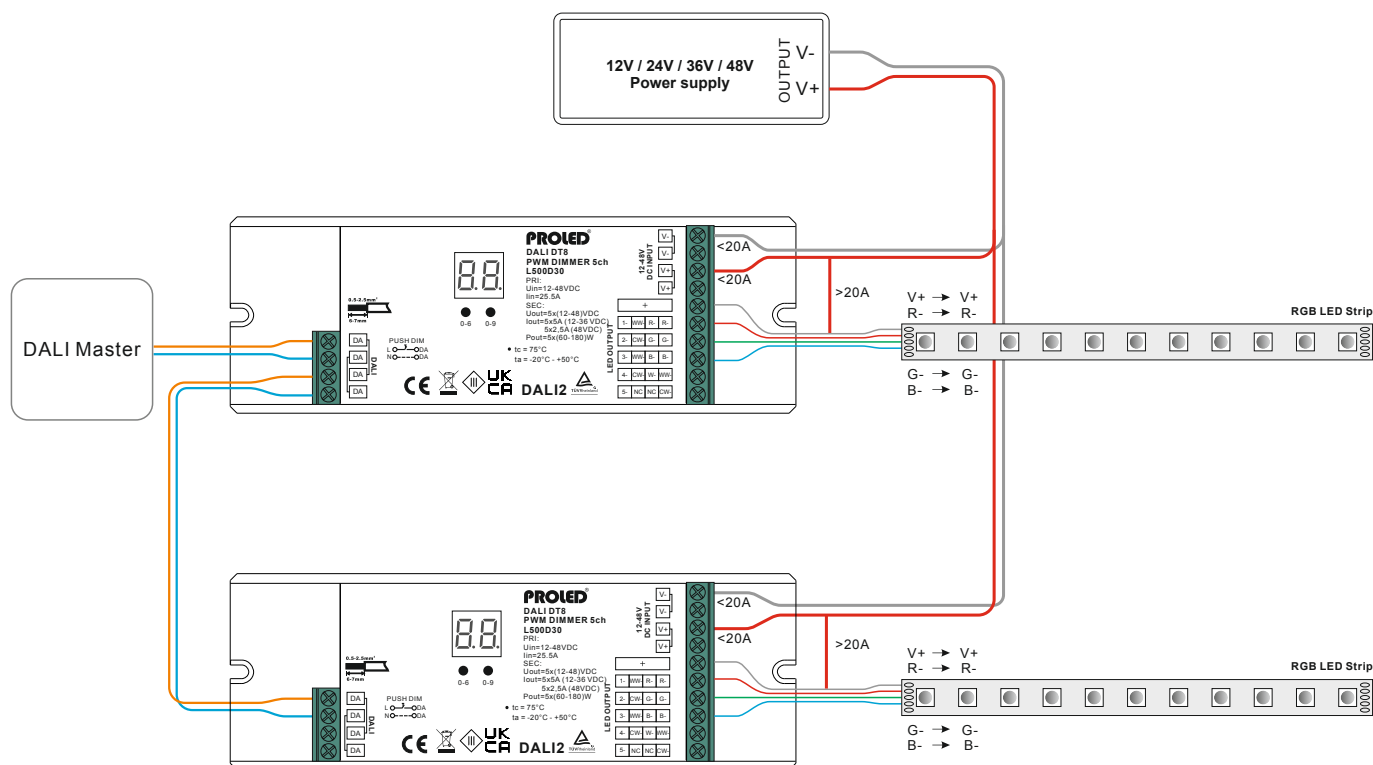

DALI Master with H.c mode XY + Tc (2 DALI-Addresses)
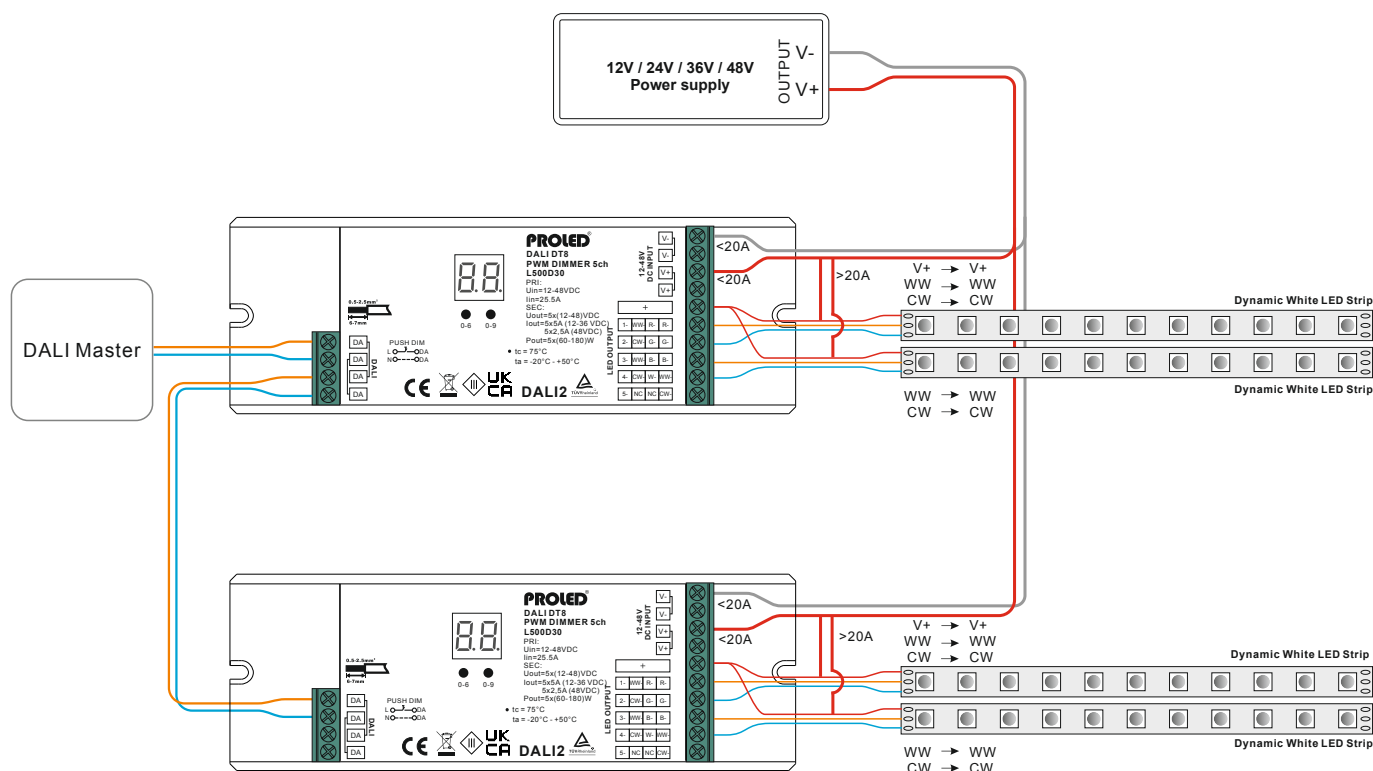
DALI Master with r.c mode RGB + Tc (2 DALI-Addresses)

DALI Master with H.6 mode XY + DT6 (2 DALI-Addresses)
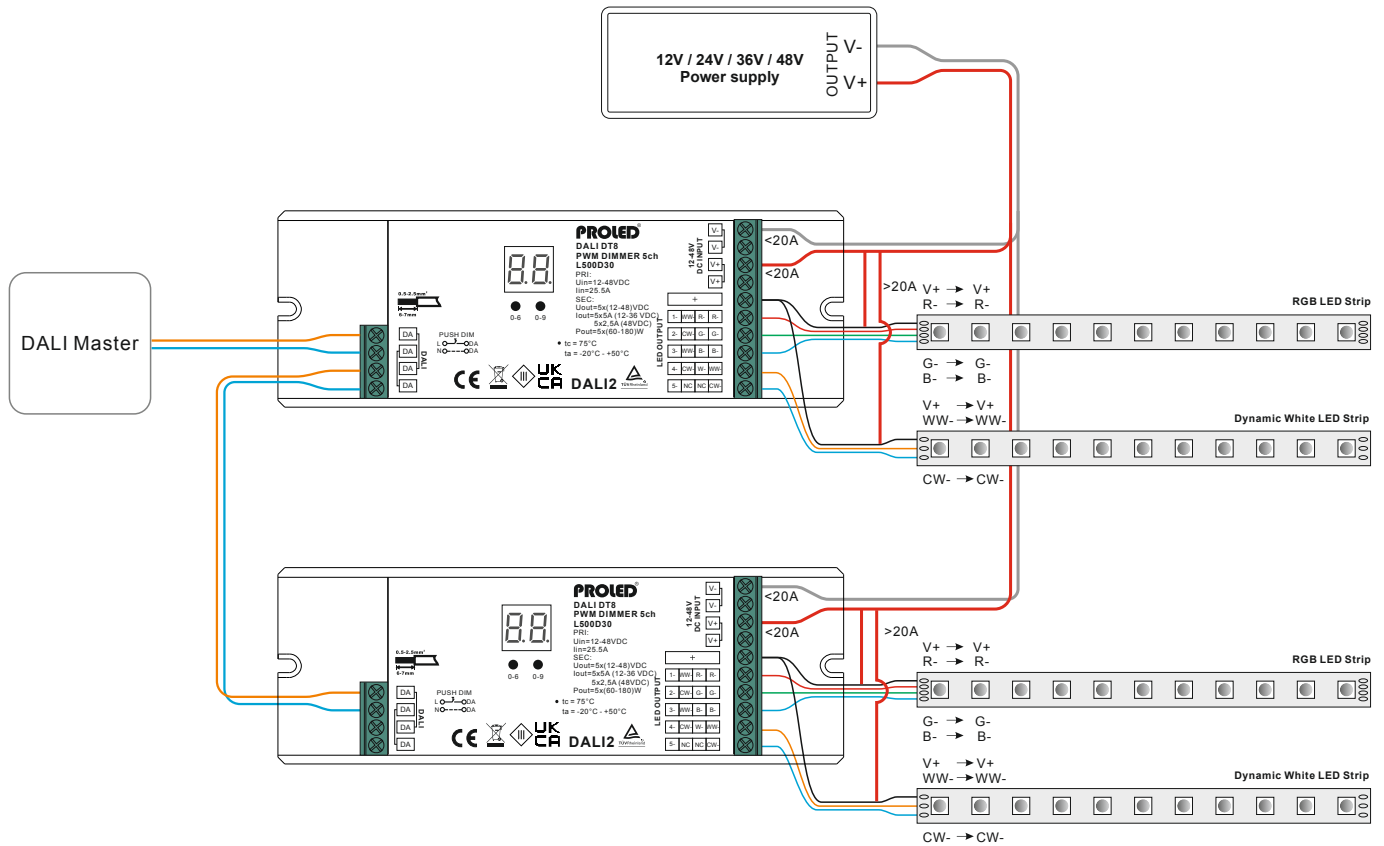
DALI Master with ⊣⊣ mode XY (only RGB, 1 DALI -Address)
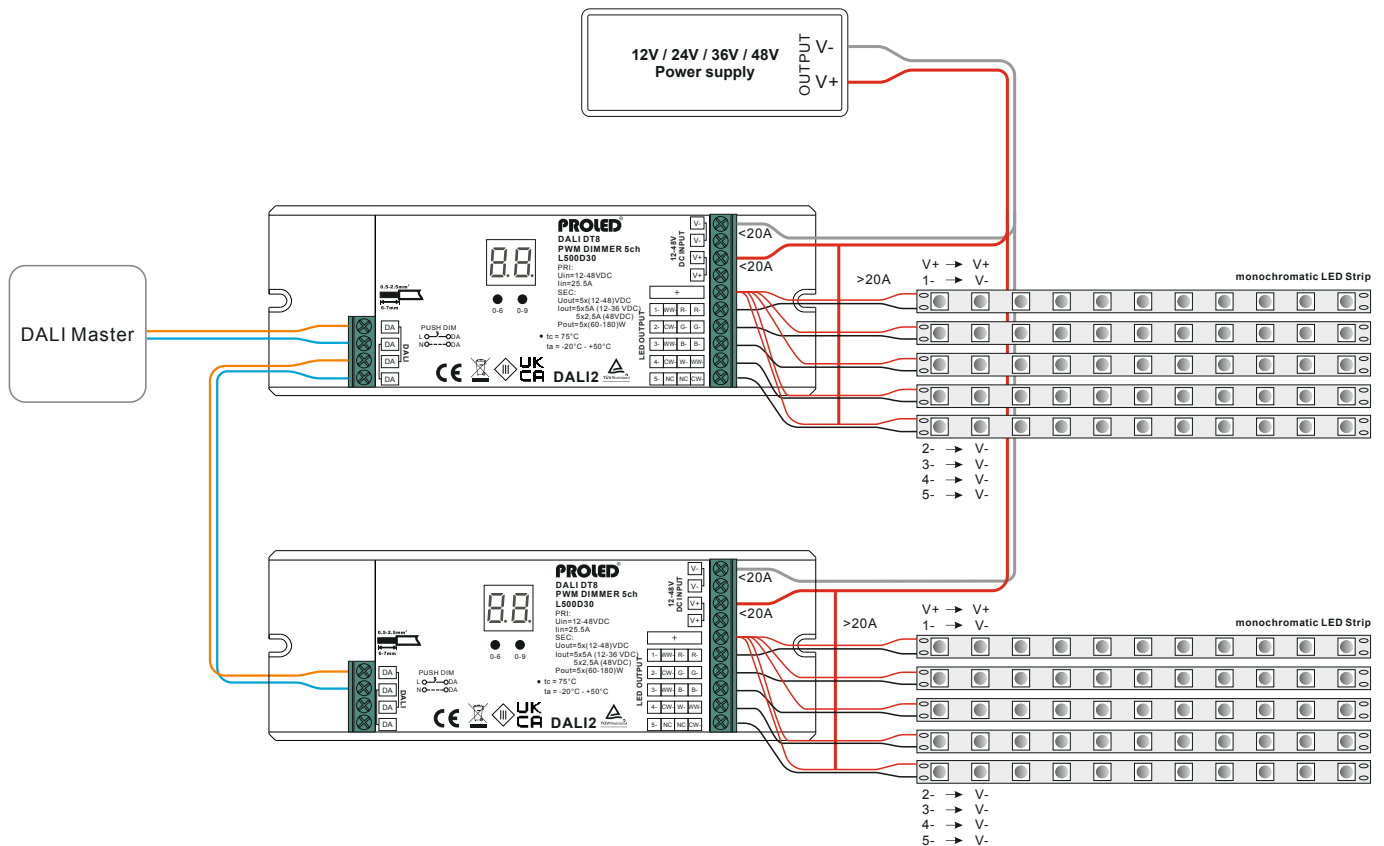

DALI Master with ⊣⊏ mode Tc (1 DALI-Address)
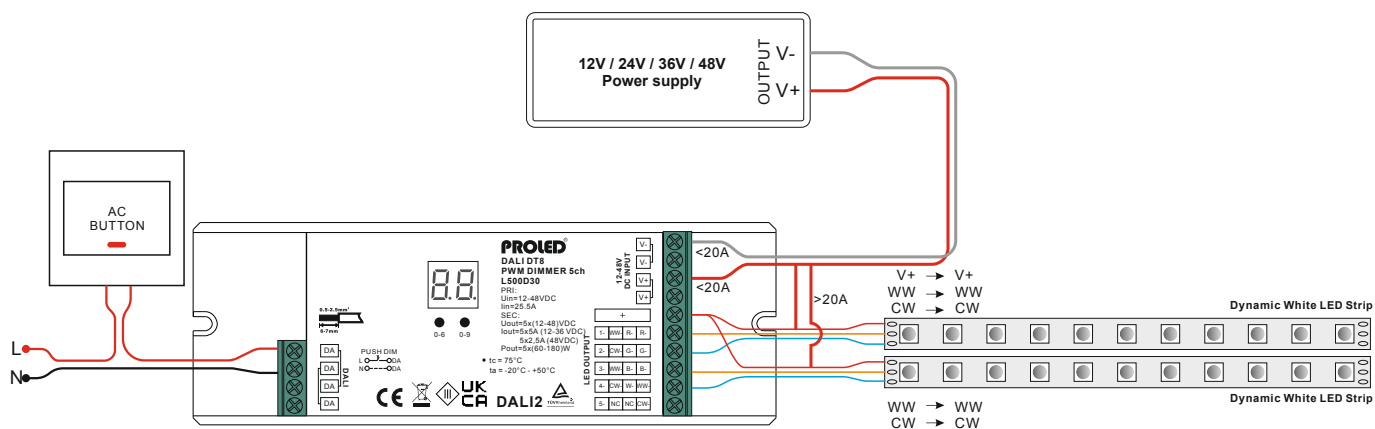
DALI Master with r9 mode RGBWAF (1 DALI -Address)
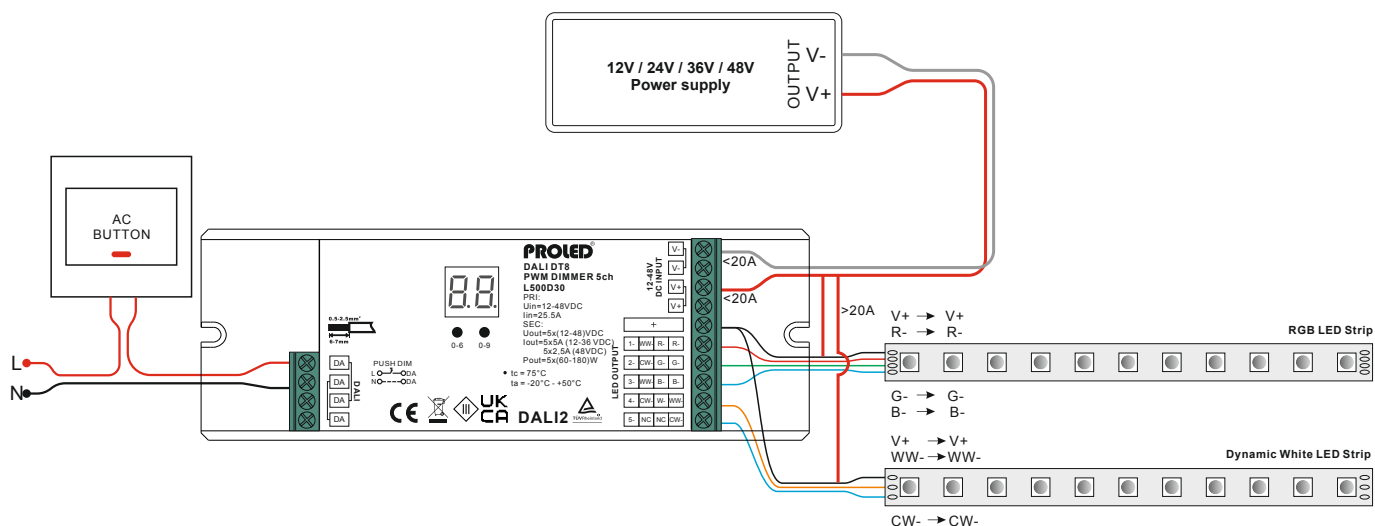

DALI Master with 76 mode DT6 (1 DALI-Address)
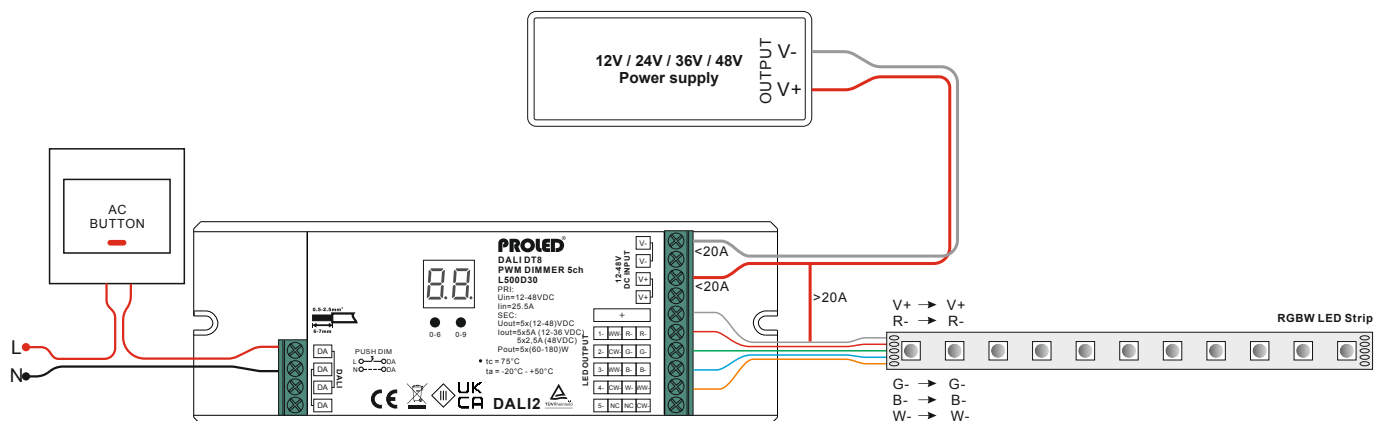
6. Connection diagramm for PUSH-DIM-control

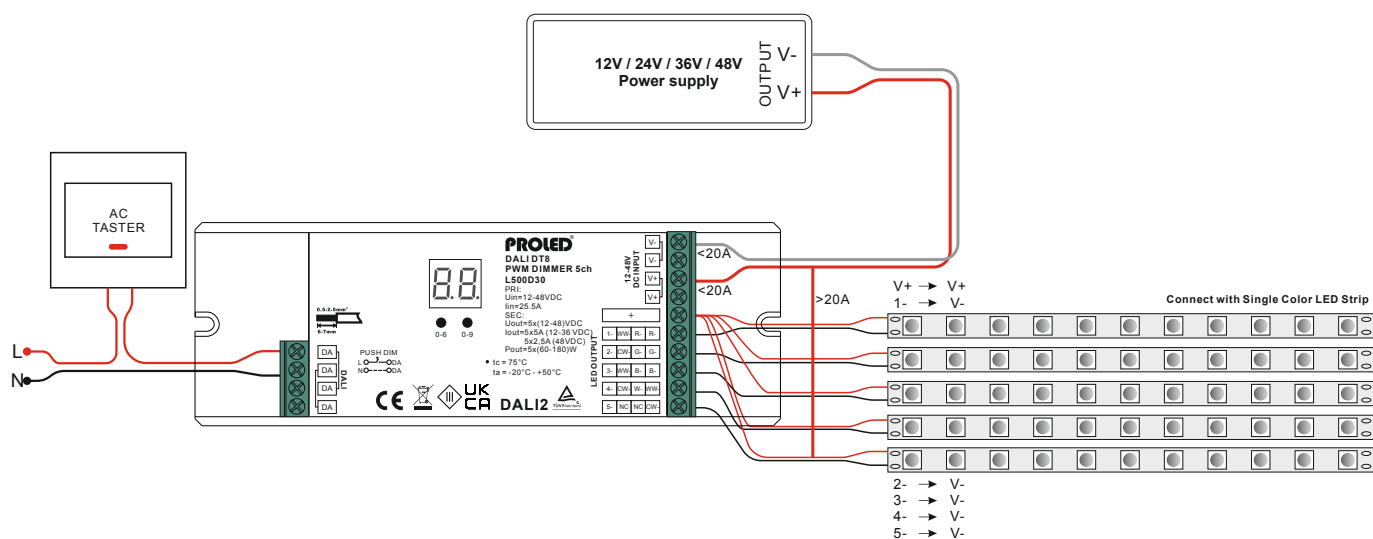### PUSH-DIM with ⊓c mode Dynamic White (Channel 1+3 and Channel 2+4 do same)

PUSH-DIM with Hc or rc mode XY + Tc or RGB + Tc (only with RGB)

PUSH-DIM with H6 mode XY + DT6 (only with RGB)

PUSH-DIM with ⅂ᑕ mode DT6 (all outputs do same)

7. Dimensions

29 mm

170 mm

59 mm

06.24. Technical amendments reserved