JUMITECH

1 Ch LED Booster/Dimmer

Datasheet Control Gear

LED ballast usable as PWM Booster or Dimmer with 0-10V control input

Art. Nr. 86459838



1 Ch LED Booster/Dimmer Control Gear

Overview

- 1 channel LED dimmer
- suitable for constant voltage LEDmodules
- control signals: PWM (50Hz-1kHz), 100kOhm potentiometer, 0-10V voltage signal (active and passive)
- logarithmic dimming curve
- Analog input: connection of a 100kOhm potentiometer or a 0-10V

control device (active or passive), the 0-10V input signal is transformed in a corresponding PWM output signal

- PWM control signal: suitable for operation with a LED-dimmer with common plus connector
- Supply voltage of 12V to 48V DC, d
- maximum current: 16A
- suitable for remote ceiling

Specifikation, Characteristics

| type | 1Ch LED Booster Dimmer |
|----------------|------------------------|
| article number | 86459838 |

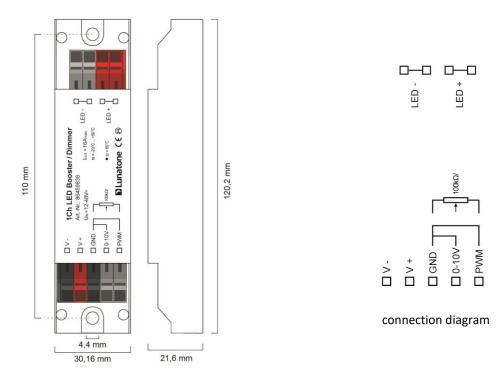
electrical data:

| supply | 12VDC-48VDC | |
|-----------------------|-----------------------|--|
| maximum input current | 16A | |
| | PWM (50Hz-1kHz) | |
| control input | 100kOhm potentiometer | |
| | 0-10V active/passive | |

technical data:

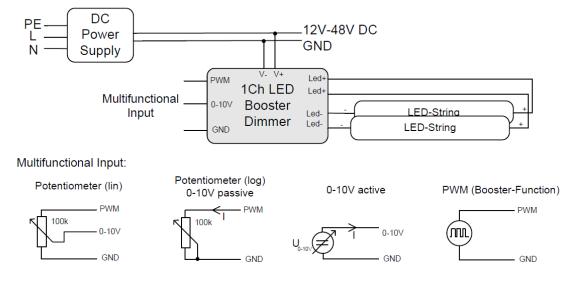
| technical data: | | |
|--|---------------------|--|
| storing and transportation temperature | -20°C to +75°C | |
| operating ambient temperature | -20°C to +60°C | |
| expected lifetime (at Tc<=75°C) | >50000h | |
| protection class | IP20 | |
| max. connecting wire crosssection | 2.5 mm ² | |
| mounting | remote ceiling | |
| dimension (LxWxH) | 120mm x 30mm x22mm | |
| | | |

RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

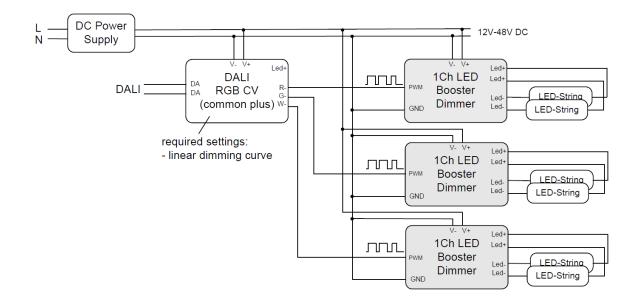


geometry



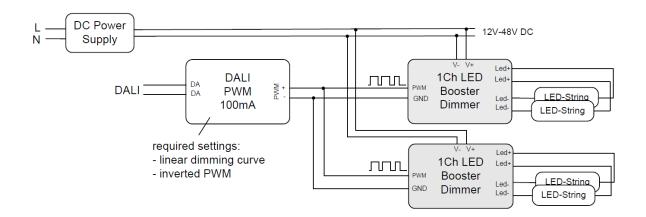


typical structure & control input configurations



Application: PWM-Booster for RGB-CV dimmer (common plus connector)

Application: PWM-Booster with DALI PWM module



command sequence for switching dimming curve of a DT6 LED-dimmer to linear:

| Туре | Hex Data | Address | Command |
|-----------------|----------|---------|----------------------------------|
| DALI16 Special | C106 | * | ENABLE DEVICE TYPE 6 |
| DALI16 AppExt D | 603EE | A1 | QUERY DIMMING CURVE |
| DALI8 Answer | 00 | | = 0 (0x00) |
| DALI16 Special | A301 | * | DATA TRANSFER REGISTER= 1 (0x01) |
| DALI16 Special | C106 | * | ENABLE DEVICE TYPE 6 |
| DALI16 AppExt D | 603E3 | A1 | SELECT DIMMING CURVE |
| DALI16 AppExt D | 603E3 | A1 | SELECT DIMMING CURVE |
| DALI16 Special | C106 | * | ENABLE DEVICE TYPE 6 |
| DALI16 AppExt D | 603EE | A1 | QUERY DIMMING CURVE |
| DALI8 Answer | 01 | | = 1 (0x01) |

Additional Information

Datasheets and manuals https://jumitech/produkter

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

JUMITECH

DALI RGBW LED Dimmer CV

Datasheet Control Gear

RGBW LED Dimmer (CV, DT8)

Art. Nr. 86458509 (8A) Art. Nr. 89453840 (10A) Art. Nr. 89453843 (16A) Art. Nr. 89453843-HS (16A, dinrail)



DALI RGBW LED Dimmer CV Control Gear

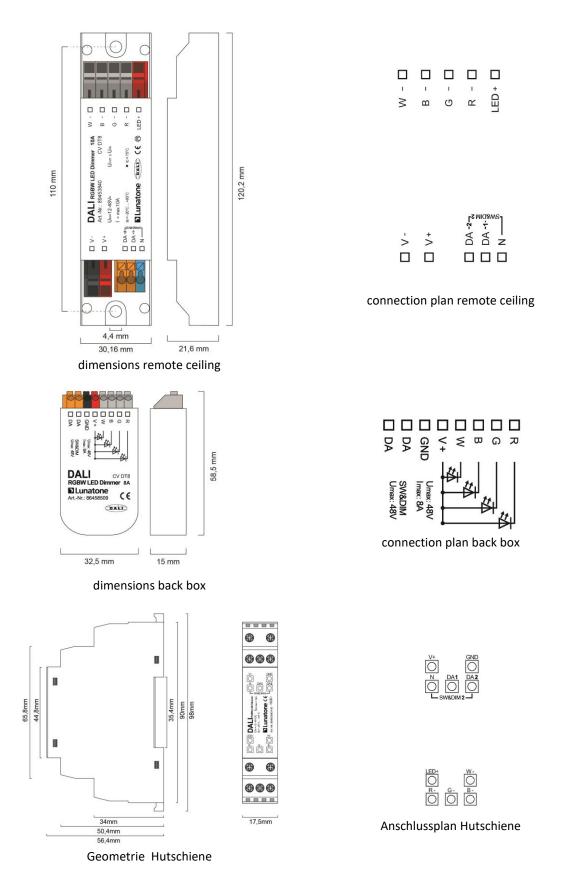
Overview

- DALI LED-Dimmer for RGBW colour control
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- Operating Mode DT8: one DALIaddress for the independent control of light level and colour (DALI DT8, Type RGBWAF)
- Operating Mode Colour&Dim: control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the colour
- SwitchDim2: 2 switch-inputs offer control of light level and colour without DALI
- dimming range 0.1%-100%

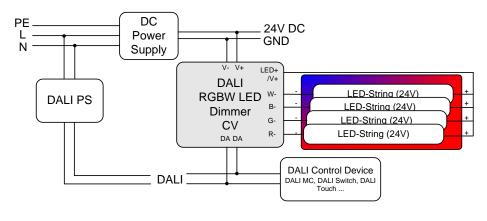
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- compact types for integration in luminaires, remote ceiling or dinrail mounting
- supply voltage 12V to 48V DC (according to the operating voltage of the led modules)
- type dependent max. input currents of 4A, 8A, 10A or 16A
- the maximum input current can be distributed on the channels at will
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

Specification, Characteristics

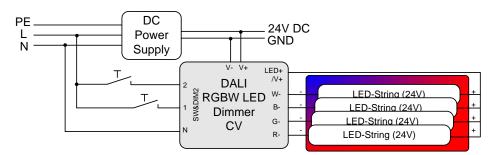
| type | DALI RGBW LED Dimmer CV | | | | | |
|------------------------------------|---|------------------------------|---------------------------|---------------------|--|--|
| article number | 86458509 89453840 89453843 89453 | | | | | |
| electrical data: | | | | | | |
| supply voltage | | 12VDC-48 | SVDC | | | |
| maximum input current linmax | 8A | 10A | 1 | 6A | | |
| control input | DALI | Switch | DALI Dim2 (mains volt | tage) | | |
| current consumption DALI | | 2mA | | | | |
| number of DALI-addresses | operating mode DT8: 1 operating mode Colour&Dim: 2 | | | | | |
| standby power consumption (12V) | ~ 120mW | | | | | |
| technical data: | | | | | | |
| power on behaviour | (| configurable: 0%-10 | 0% or last value | | | |
| storage/transportation temperature | | -20°C +75°C | | | | |
| operational ambient temperature | | -20°C + | 60°C | | | |
| expected lifetime (at Tc<=75°C) | | >100000h | | | | |
| protection class | | IP20 | | | | |
| max. connecting wire cross section | 1.5 mm ² | 2.5 mm ² / DALI&S | wDim: 1.5 mm ² | 2.5 mm ² | | |
| dimensions (LxWxH) | 59x33x15 mm | 120x30x | 22 mm | 98x17x56 mm | | |
| housing/mounting | back box | remote | ceiling | dinrail | | |



RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops. DALI:



SwitchDim2:



Operating Modes

The device offers several operating modes:

DT8 (factory default)

In this operating mode one DALI-address for the independent control of light level and colour is used (Device Type 8 RGBWAF).

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level short press: On/Off long press: dimming SwD2: colour long press: change colour

Colour&Dim

This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are

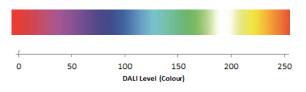
used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the level and vice versa. For each channel only DALIstandard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

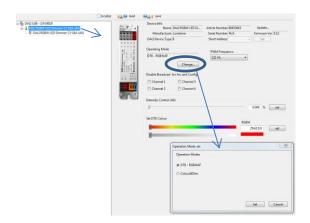
DALI-address 2, SwD2: colour



Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-RGBWAF:



In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (slider for level and colour in the operating modes DT8 and Colour&Dim). Furthermore the broadcast control can be deactivated for each channel individually.

Operating mode Colour&Dim:

| 💡 📸 🛄 read | 🔤 📸 💡 save | | |
|------------|--|--|-----------------------------------|
| | Save Save Device Info Name [DALI RGBW LED Di Manufacturer [Lunatone DALI Device Type [6 Operating Mode Colour&Dim Change Disable Broadcast for Arc and Config Channel 1 Channel 3 Channel 2 Channel 4 | Article Number 89453843 Serial Number NA Short Address PWM Frequency: 122 Hz | Update Firmware Ver 012 Set |
| 96 | Intensity Control (A0) | | 0.000 % set |
| | Colour Control (A1) | | 0 set |

Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically. Operating Mode:

| number | operating mode |
|--------|-----------------------|
| 0x0 | DT8 (factory default) |
| 0x92 | DT8 |
| 0x93 | Colour&Dim |

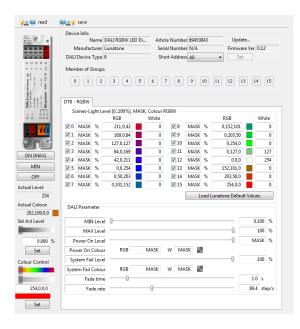
Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

Component Tree:



Settings in the operating mode DT8-RGBWAF (displayed parameters are the factory default values)



Settings for each channel in the operating mode Colour&Dim:

| | | | RGBW LED Di one | Serial I | Number 89 Number N Address A | /A | Upda Firmwa Se | are Ver 0. | 2 |
|--|---------------------|-------------------|--------------------|----------|------------------------------------|--------|----------------------|------------|--------|
| 0 0 000 000 000 000 000 000 000 000 00 | Member 0 | r of Groups | 4 5 | 6 7 | 8 9 | 10 11 | 12 | 13 14 | 15 |
| □ v. DAL Incerus □ v. v.e.v.e.second □ v. v.e.v.e.second □ v. v.e.v.e.second □ 0.4-1 □ 1.4-400 □ 0.4-1 □ 1.4-400 | General - Scenes | - Licht Level [01 | 00%], MASK | | | | | | |
| | 0 | MASK % | 4 MA | SK % | 8 | MASK % | | 12 MAS | к % |
| | 1 | MASK % | | SK % | 9 | MASK % | | | _ |
| | 2 | MASK % | | SK % | 10 | MASK % | | | _ |
| ON (MAX) | 3 | MASK % | 7 MA | SK % | 11 | MASK % | | 15 MAS | K % |
| MIN | - DALI Pa | arameter | | | | | | | |
| OFF | | MIN Level | | | | | | 0.10 | 0 % |
| ual Level: | | MAX Level | | | | | n i | 10 | |
| 100% (254) | | er On Level | | | | | ī | MAS | |
| | | n Fail Level | | | | | -0 | 10 | |
| | | Fade Time | 0 | | | | | 1.0 | |
| Act Level | | Fade Rate | - | 0 | | | — č | 89.4 | step/s |
| | <u> </u> | | | | | | | | |

For each address the group membership can be set as well as scene values and DALIparameters. In Colour&Dim operating mode, all values assigned to channel 2 are representing colours.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by a group address. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to the DALI default values as defined in the standard.

Summary of the factory default settings (delivery state):

| Operating mode | DT8 |
|-------------------|----------------------------|
| SwitchDim2 | SwD1: level |
| | SwD2: colour |
| Min Level | 0.1% |
| PowerOn Level | MASK (last value) |
| Fade Time | 2 (1s) |
| Fade Rate | 5 (89.4 steps/s) |
| PWM- | 122Hz |
| frequency | |
| Groups before | GO |
| intial | (or G0 and G1 in operating |

| addressing: | mode Colour&Dim) | | | |
|---------------|------------------|-----------|-------|--|
| Predefined | | RGB | White | |
| | ☑ 0 MASK % | 211,0,42 | 0 | |
| Scene Values: | 1 MASK % | 169,0,84 | 0 | |
| | 2 MASK % | 127,0,127 | 0 | |
| | ☑ 3 MASK % | 84,0,169 | 0 | |
| | ☑ 4 MASK % | 42,0,211 | 0 | |
| | | 0,0,254 | 0 | |
| | | 0,50,203 | 0 | |
| | 7 MASK % | 0,101,152 | 0 | |
| | | 0,152,101 | 0 | |
| | | 0,203,50 | 0 | |
| | ☑ 10 MASK % | 0,254,0 | 0 | |
| | ✓ 11 MASK % | 0,127,0 | 127 | |
| | ☑ 12 MASK % | 0,0,0 | 254 | |
| | ☑ 13 MASK % | 152,101,0 | 0 | |
| | ☑ 14 MASK % | 203,50,0 | 0 | |
| | ▼ 15 MASK % | 254,0,0 | 0 | |
| | | | | |

Purchase Order Information

Art.Nr. 86458509: RGBW LED Dimmer, CV, input current 8A, 12V-48V DC, back box

Art.Nr. 89453840: RGBW LED Dimmer, CV, input current 10A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453843: RGBW LED Dimmer, CV, input current 16A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453843-HS: RGBW LED Dimmer, CV, input current 16A, 12V-48V DC, SwitchDim2, din rail mounting

Additional Information

Datasheets and manuals <u>https://jumitech/produkter</u>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The function in installations with other devices must be tested for compatibility in advance.

JUMITECH

DALI RGB LED Dimmer CV

Datasheet

Control Gear

RGB LED Dimmer (CV, DT8)

Art. Nr. 89453837 (4A) Art. Nr. 86458514 (8A) Art. Nr. 89453839 (10A) Art. Nr. 89453842 (16A)



DALI RGB LED Dimmer CV Control Gear

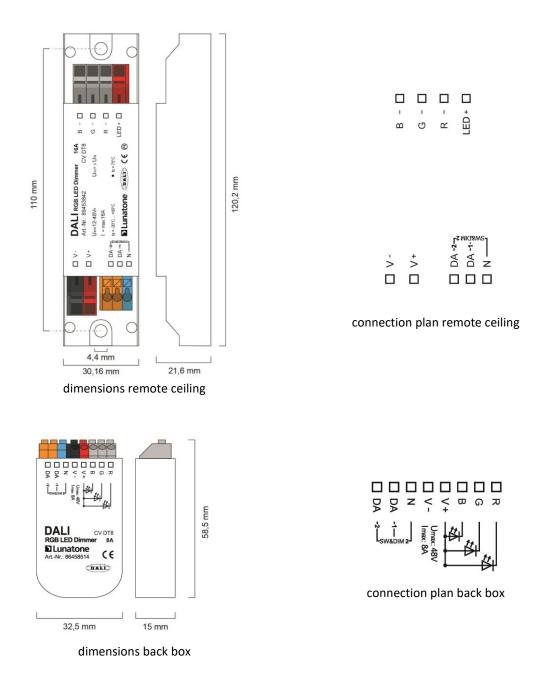
Overview

- DALI LED-Dimmer for RGB colour control
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- Operating Mode DT8: one DALIaddress for the independent control of light level and colour (DALI DT8, Type RGBWAF)
- Operating Mode Colour&Dim: control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the colour
- SwitchDim2: 2 switch-inputs offer control of light level and colour without DALI
- dimming range 0.1%-100%

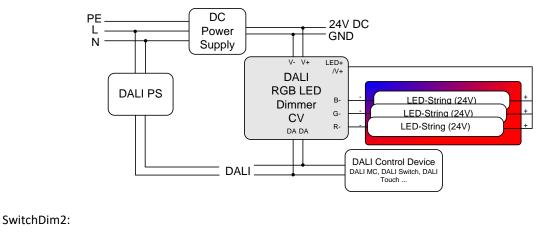
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- compact types for integration in luminaires or remote ceiling
- supply voltage 12V to 48V DC (according to the operating voltage of the led modules)
- type dependent max. input currents of 4A, 8A, 10A or 16A
- the maximum input current can be distributed on the channels at will
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

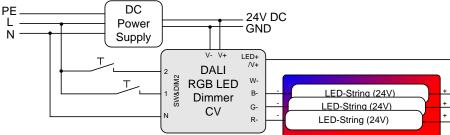
Specification, Characteristics

| type | DALI RGB LED Dimmer CV | | | | |
|------------------------------------|--|------------------|----------------------|-----------|--|
| article number | 89453837 | 86458514 | 89453839 | 89453842 | |
| electrical data: | | | | | |
| supply voltage | | 12VD | C-48VDC | | |
| maximum input current linmax | 4A | 8A | 10A | 16A | |
| control input | | | DALI | | |
| | | SwitchDim2 | (mains voltage) | | |
| current consumption DALI | | 2mA | | | |
| number of DALI-addresses | operating mode DT8: 1 | | | | |
| number of DAEI dudresses | operating mode Colour&Dim: 2 | | | | |
| standby power consumption (12V) | ~ 120mW | | | | |
| technical data: | | | | | |
| power on behaviour | | configurable: 0% | %-100% or last value | 5 | |
| ambient temperature | | -20°C | to +60°C | | |
| expected lifetime (at Tc<=75°C) | >100000h | | | | |
| protection class | IP20 | | | | |
| max. connecting wire cross section | 1.5 mm ² 2.5 mm ² / DALI &SwDim: 1.5 mm ² | | | | |
| dimensions (LxWxH) | 59x33> | ‹15 mm | 120x30 | x22 mm | |
| housing/mounting | bac | k box | remote | e ceiling | |



RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops. DALI:





Operating Modes

The device offers several operating modes:

DT8 (factory default)

In this operating mode one DALI-address for the independent control of light level and colour is used (Device Type 8 RGBWAF).

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level short press: On/Off long press: dimming SwD2: colour long press: change colour

Colour&Dim

This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are

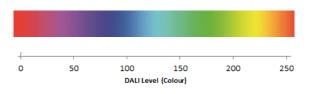
used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the level and vice versa. For each channel only DALIstandard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

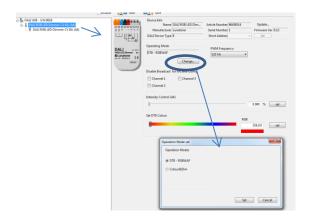
DALI-address 2, SwD2: colour



Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-RGBWAF:



In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (slider for level and colour in the operating modes DT8 and Colour&Dim). Furthermore the broadcast control can be deactivated for each channel individually.

Operating mode Colour&Dim:

| | Device Info Name DALI RGB LED Dim Manufacturer Lunatone DALI Device Type 6 | Article Number Serial Number Short Address | 1 | Update Firmware Ver | 0.12 |
|---|---|--|-------|------------------------|------|
| CALL OV DTS RGB LED Dimmer SA DLunatone Act. No: 00450514 CC | Operating Mode Colour&Dim Change | PWM Freque | ency: | | |
| | Disable Broadcast for Arc and Config | | | | |
| | Intensity Control (A4) | | | 0.000 % | set |
| | Colour Control (A0) | | | 0 | set |

Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically. Operating Mode:

| number | operating mode |
|--------|-----------------------|
| 0x0 | DT8 (factory default) |
| 0x92 | DT8 |
| 0x93 | Colour&Dim |

Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

Component Tree:



Settings in the operating mode DT8-RGBWAF (displayed parameters are the factory default values)

| | Devid | e Info N | lame | DALLEG | iB LED Dir | n | Article | Number | 86458 | 514 | | Update | P | |
|---|-------|-------------|---------|-----------|------------|-----|---------|-------------|-------|-----|---------|---------|------------|-----|
| | | Aanufact | | | | | | Number | | | - | | e Ver 0.12 | , |
| 1 18 44 | | Device | | | | | | Address | | | - | Set | | |
| S & AH | | | | | | | | | | _ | | | | |
| | Mem | iber of G | roups | 5 | | | | | | | | | | |
| IGB LED Dimmer 8A DLunatone rtNr: 86458514 C E | 0 | 1 | 2 | 3 | 4 | 5 | 5 7 | 8 | 9 | 10 | 11 | 12 13 | 14 | 15 |
| Chair) | DT8 - | RGB | | | | | | | | | | | | |
| | C Se | enes-Lig | ght Le | | 00%], MA | | lour RG | 3 | | | | | | |
| | | | | R | G | В | | _ | | | R | G | В | _ |
| | | MASK | | 211 | 0 | 42 | | 8 | MASK | | 0 | 152 | 101 | L |
| | ✓ 1 | MASK | % | 169 | 0 | 84 | | 9 | MASK | | 0 | 203 | 50 | H |
| | V 2 | MASK | | 127 84 | 0 | 127 | | ✓ 10 ✓ 11 | MASK | | 0 50 | 254 | 0 | |
| ON (MAX) | | MASK | % | 84 42 | 0 | 211 | | ✓ 11 ✓ 12 | MASK | | 101 | 203 | 0 | H |
| MIN | ▼ 4 | MASK | % | 42 | 0 | 254 | | V 12 | MASK | | 152 | 101 | 0 | H |
| OFF | ▼6 | MASK | % | 0 | 50 | 203 | | 14 | MASK | | 203 | 50 | 0 | |
| Actual Level: | 7 | MASK | % | 0 | 101 | 152 | | V 15 | MASK | | 254 | 0 | 0 | |
| 254 | | | | | | | | i i | 1 | adl | unaton | Default | Values | |
| Actual Colour: | | | | | | | | | _ | | | | | _ |
| 254.0.0 | DAL | I Parame | eter – | | | | | | | | | | | |
| Set Act Level | | MIN | Leve | i 0— | | | | | | | | - [| 0.100 | % |
| in the second | | MAX | Leve | i — | | | | | | | | -0 (| 100 | % |
| 0.000 % | P | ower On | Leve | i — | | | | | | | | -0 - | MASK | % |
| Set | Po | wer On (| Colou | R | MASK | G | MASK | в | MASK | 82 | | | | |
| Colour Control | Sv | stem Fail | Leve | i — | | | | | | _ | | -0 | 100 | % |
| Colour Control | Syste | em Fail C | olou | R | MASK | G | MASK | в | MASK | 88 | | | | |
| | | | e time | | 0 | | | | | | | | 1.0 s | |
| 254,0,0 | | Fac | le rate | _ | | | | | | | | | 89.4 st | ep/ |

Settings for each channel in the operating mode Colour&Dim:

| | | | RGB LED Dim one | Serial | Number 86 Number 1 Address A(| | Upd Firmw | are Ver 0 | .12 |
|--|-------------------|-----------------|--------------------|--------|-------------------------------------|--------|--------------|-----------|--------|
| LI CV DTS LED Dimmer 8A Jatone C E | Membe | r of Groups | 4 5 | 6 7 | 89 | 10 1 | I 12 (| 13 14 | 15 |
| (m) | General Scenes | Licht Level [01 | 00%], MASK | | | | | | |
| | | MASK % | 4 M | ASK % | 8 | MASK % | 10 | 12 MA | SK % |
| | 1 | MASK % | 5 M | ASK % | | MASK % | | 13 MA | SK % |
| | 2 | MASK % | ■6 M | ASK % | 10 | MASK % | | 14 MA | SK % |
| ON (MAX) | 3 | MASK % | 7 M | ASK % | 11 | MASK % | | 15 MA | SK % |
| MIN | DALIP | arameter | | | | | | | |
| OFF | | MIN Level | | | | | | 0.1 | .00 % |
| ual Level: | | MAX Level | | | | | 0 | 1 | .00 % |
| 254 | Pow | er On Level | | | | | 0 | MA | SK % |
| | Syster | n Fail Level | | | | | 0 | 1 | .00 % |
| | | Fade Time | 0 | | | | Ì | 1.0 | s |
| Act Level | | Fade Rate | | 0 | | | — Ì | 89.4 | step/s |
| 0.000 % | | | | | | | | | |
| 0.000 % | | | | | | | | | |

For each address the group membership can be set as well as scene values and DALIparameters. In Colour&Dim operating mode, all values assigned to channel 2 are representing colours.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by a group address. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to the DALI default values as defined in the standard.

Summary of the factory default settings (delivery state):

| Operating mode | DT8 |
|----------------|----------------------------|
| SwitchDim2 | SwD1: level |
| | SwD2: colour |
| Min Level | 0.1% |
| PowerOn Level | MASK (last value) |
| Fade Time | 2 (1s) |
| Fade Rate | 5 (89.4 steps/s) |
| PWM- | 122Hz |
| frequency | |
| Groups before | GO |
| intial | (or G0 and G1 in operating |

| addressing: | mode Colour&Dim) | |
|---------------|-----------------------|--|
| Predefined | R G B | |
| | 🕼 0 MASK % 211 0 42 | |
| Scene Values: | ☑1 MASK % 169 0 84 | |
| | 2 MASK % 127 0 127 | |
| | 3 MASK % 84 0 169 | |
| | ☑ 4 MASK % 42 0 211 | |
| | ▼ 5 MASK % 0 0 254 | |
| | | |
| | 7 MASK % 0 101 152 | |
| | ▼8 MASK % 0 152 101 | |
| | | |
| | 9 MASK % 0 203 50 | |
| | ✓ 10 MASK % 0 254 0 | |
| | ☑ 11 MASK % 50 203 0 | |
| | ☑ 12 MASK % 101 152 0 | |
| | ☑ 13 MASK % 152 101 0 | |
| | ☑ 14 MASK % 203 50 0 | |
| | ▼15 MASK % 254 0 0 | |

Purchase Order Information

Art.Nr. 89453837: RGB LED Dimmer, CV, input current 4A, 12V-48V DC, SwitchDim2, back box

Art.Nr. 86458514: RGB LED Dimmer, CV, input current 8A, 12V-48V DC, SwitchDim2, back box

Art.Nr. 89453839: RGB LED Dimmer, CV, input current 10A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453842: RGB LED Dimmer, CV, input current 16A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals <u>https://jumitech/produkter</u>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The function in installations with other devices must be tested for compatibility in advance.

JUMITECH

DALI CW-WW LED Dimmer CV

Datasheet

Control Gear

DALI LED Dimmer (CV, DT8) for the control of tunable white luminaires (CW-WW)

> Art. Nr. 89453836 (4A) Art.Nr. 86458673 (8A) Art. Nr. 89453838 (10A) Art. Nr. 89453841 (16A)



DALI CW-WW LED-Dimmer CV Control Gear

Overview

- DALI LED-Dimmer for the control of tunable white luminaires
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- Operating Mode DT8: one DALIaddress for the independent control of light level and colour temperature (DALI DT8, Colour Type Tc)
- Operating Mode Balance&Dim: control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the channel balance (e.g. colour temperature)
- Operating Mode Dim2Warm: one DALI-address for simultaneous adjustment of light level and colour temperature
- SwitchDim2: 2 switch-inputs offer control of level and colour without DALI

- dimming range 0.1%-100%
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- compact types for integration in luminaires or remote ceiling
- supply voltage type dependent of 12V to 28V DC or from 12V to 48V DC (according to the operating voltage of the led modules)
- type dependent max. input currents of 4A, 8A, 10A or 16A
- the maximum input current can be distributed on the channels at will
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

| type | | DALI CW-WW | Led Dimmer CV | |
|----------------|----------|------------|---------------|----------|
| article number | 89453836 | 86458673 | 89453838 | 89453841 |
| | | | | |

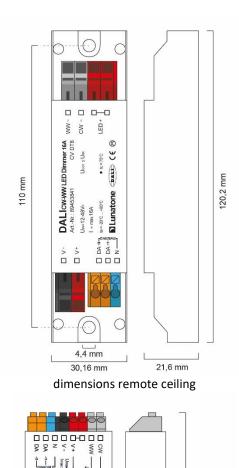
electrical data:

| supply voltage Vin | 12VDC-28VDC 12VDC-48VDC | | | | |
|---------------------------------|--|-----|----|--|--|
| maximum input current linmax | 4A 8A 10A | | | | |
| control input | DALI DALI SwitchDim2 | | | | |
| current consumption DALI | 2mA | | | | |
| number of DALI-addresses | operating mode DT8, Dim2Warm: 1 operating mode Balance&Dim: 2 | | | | |
| standby power consumption (12V) | | 120 | mW | | |

| type | | DALI CW-WW I | Led Dimmer CV | |
|----------------|----------|--------------|---------------|----------|
| article number | 89453836 | 86458673 | 89453838 | 89453841 |

technical data:

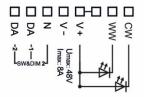
| power on behaviour | conf | 0%-100% or last value | | |
|------------------------------------|---|-----------------------|----------------------------------|--|
| ambient temperature | -20°C bis +60°C | | | |
| expected lifetime (at Tc<=75°C) | >100000h | | | |
| protection class | | IP2 | 20 | |
| max. connecting wire cross section | 1.5 mm ² | | 2.5 mm²/ DALI &SwDim: 1.5 mm² | |
| dimensions (LxWxH) | 40mm x 59mm x 28mm x 33mm x 15mm 15mm | | 120mmx30mmx22mm | |
| housing/mounting | back | x box | remote ceiling | |





| | | 5 5 Swadime |
|---|---|----------------|
| > | > | DA N - |
| | | |

connection plan remote ceiling



connection plan back box 8A

dimensions back box 8A

L

15 mm

DALI CV DT8 CW-WW LED Dimmer 8A D Lunatone Art.-Nr.: 86458673 C €

32,5 mm

DALD

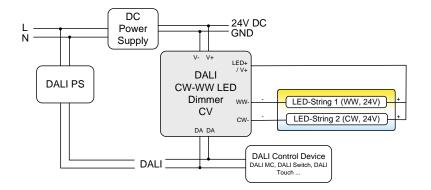
58,5 mm



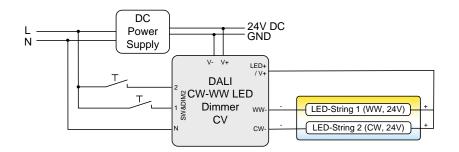
dimensions back box 4A

RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

DALI:



SwitchDim2:



Operating Modes

The device offers several operating modes:

DT8 (factory default)

Default when connected to DALI in this operating mode one DALI-address for the independent control of light level and colour temperature is used (Device Type 8 Mode Tc).

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level short press: On/Off long press: dimming SwD2: colour temperature long press: change colour temperature

Balance&Dim

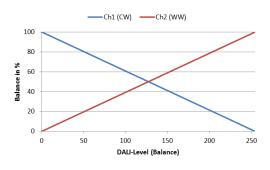
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

The Balance&Dim mode allows colour temperature adjustments without affecting the light level and vice versa. For each channel only DALI-standard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Balance&Dim mode provides an alternative to the DT8-Tc mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

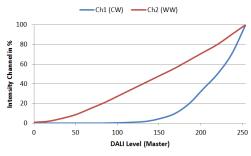
DALI-address 2, SwD2: balance



Dim2Warm

Both output channels are controlled by one DALI-address or SwD-input. The balance is coupled directly to the DALI dim level – the smaller the dim level the warmer the light.

DALI-address 1, SwD1: Dim2Warm (Master) short press: On/Off long press: dimming

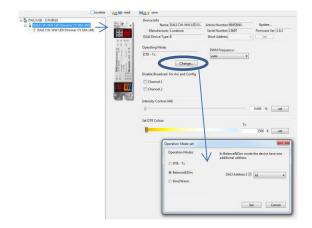


SwD2: scene selector

Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-Tc:



In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (DT8: slider for level and colour temperature, Balance&Dim: slider for level and balance, Dim2Warm: slider for input value adaption and Edit-Function for the Dim2Warm-table). Furthermore the broadcast control can be deactivated for each channel individually.

Operating Mode Balance&Dim:

| Device Info Name DALI CW-WW LED D Manufacturer Lunatone DALI Device Type 6 | Article Number 89453841 Serial Number 13697 Short Address | Update Firmware Ver 1.0.2 |
|---|---|------------------------------|
| Operating Mode Balance&Dim Disable Broadcast for Arc and Config Channel 1 | PWM Frequency: auto | |
| Channel 2 Intensity Control (A0) Balance Control (A1) | | 0.000 % set |

Operating Mode Dim2Warm:

| Device Info Name Manufacturer DALI Device Type | | Article Number Serial Number Short Address | r 13697 | F | Update irmware \ Set | |
|--|---|--|---------|----|----------------------------|---|
| Operating Mode | | PWM Frequ | iency: | | | |
| Dim2Warm | Change | auto | | • | | |
| Disable Broadcast | - | | | | | |
| Dim2Warm Contro | rm table | > | | | 0 % | 5 |
| Edit Dim2War | m table m table values | > | | , | | s |
| Edit Dim2War Dim To War | m table m table values m Table | | Cold: | Wa | | |
| Edit Dim2War | m table m table values m Table CW % | **** /0 | | | rm: | × |
| Edit Dim2War | m table m table values m Table CW % 0.00 | 5.00 | Cold: | | rm: | |
| Edit Dim2War Edit Dim2War Dim To War Master % 0 6 | m table m table values m Table CW % 0.00 0.00 | 5.00 10.00 | | | rm: | × |
| Edit Dim2War Dim To War Master % 0 6 13 | m table m table values m Table CW % 0.00 0.00 0.00 | 5.00 10.00 17.00 | 0.00 | | rm: | × |
| Edit Dim2War Edit Dim2War Dim To War Master % 0 6 | m table values m table cw % 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0 | 5.00 10.00 17.00 23.00 | 0.00 | | rm: | × |
| Edit Dim2War Edit Dim2War Dim To War Master % 0 6 13 20 | m table m table values m Table 0.00 0.00 0.00 0.00 0.00 0.00 | 5.00 10.00 17.00 | 0.00 | | rm: | × |
| Edit Dim2War Dim To War Dim To War 6 13 20 26 33 | m table values m table values CW % 0.00 0.00 0.00 0.00 0.00 0.00 12.00 | 5.00 10.00 17.00 23.00 29.00 36.00 | 0.00 | | rm: | × |
| C Edit Dim2Wan Dim To War 6 13 20 26 | m table values m table values CW % 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 5.00 10.00 17.00 23.00 29.00 36.00 40.00 | 0.00 | | rm: | × |
| Edit Dim2War Edit Dim2War Dim To War Master % 0 6 13 20 26 33 40 46 | m table values m table values m Table CW % 0.00 0.00 0.00 0.00 12.00 20.00 22.00 22.00 | 5.00 10.00 17.00 23.00 29.00 36.00 40.00 44.00 | 0.00 | | rm: | × |
| Edit Dim2War Edit Dim2War Dim To War 6 13 20 26 33 40 46 53 | m table m table values m Table CW % 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 5.00 10.00 17.00 23.00 59.00 56.00 40.00 44.00 16.50 | 0.00 | | rm: | × |
| Edit Dim2War Edit Dim2War Dim To War Master % 0 6 13 20 26 33 40 46 | m table values m table values m Table CW % 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0. | 5.00 10.00 17.00 23.00 29.00 36.00 40.00 44.00 | 0.00 | | rm: | × |

Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically.

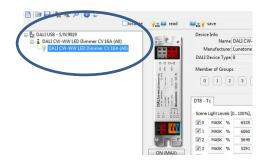
Operating Mode:

| Number | Operating Mode |
|--------|-----------------------|
| 0x0 | DT8 (factory default) |
| 0x92 | DT8 |
| 0x94 | Balance&Dim |
| 0x95 | Dim2Warm |

Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

Component Tree:



Settings in the operating mode DT8-Tc (displayed parameters are the factory default values):

| Name DALI CWW LED D. Article Number (8453841) Update Name DALI CWW LED D. Article Number (8453841) Update Name Scial Number (13697) Firmware Ver (10.2 DALI Device Type (8 Short Address (A) Sciel DALI Device Type (8 Short Address (A) Sciel Values (8) D18 - Tc Sciel Update Sciel Values (8) Sciel Values (8) D18 - Tc Sciel Values (8) Sciel Values (8) Sciel Values (8) Sciel Values (8) D18 - Tc Sciel Values (8) D18 - Tc Sciel Values (8) D18 - Tc Sciel Values (8) D18 - Tc Sciel Values (8) D18 - K (8) Sciel Values (8) < | 😪 🔤 read 🛛 🖡 | Device | e Info | | | | | | | | | | | | |
|---|---|------------|------------------|--------|----------|-----|-------------|----------------------------------|-------|-----------|--------|----------------|------------|--------|--|
| DALl Device Type 8 Short Address 40 Set Member of Groups 0 1 2 3 4 6 7 9 9 1 12 13 4 5 7 9 9 1 12 13 4 6 7 8 9 0 1 12 13 4 6 7 8 9 0 1 12 13 4 5 7 8 9 0 1 12 14 15 OT8 TC To Score Light Levels (D100%), MASK, '600 r temperature (2003-C-6930) To Limits 7 9 9 9 1 12 34 30 7 7 7 14 MASK '6 3031 Y 7 | - C] | bene | | me [| ALI CW | ww | LED D | D Article Number 89453841 Update | | | | | | | |
| 0 1 2 3 4 6 7 8 9 10 11 12 14 15 0 1 2 3 4 6 7 8 9 10 11 12 14 15 0 1 2 3 4 6 7 8 9 10 11 12 14 15 0 1 2 3 4 6 7 8 9 10 11 12 14 15 0 1 2 3 4 6 7 8 9 10 11 12 14 15 0 MAK % 6555 % % 9 9 14 MAK % 3031 % % 9 15 MAK % 3033 % Towneet: 3033 % Towneet: 3033 % Towneet: 3033 | | м | lanufacti | urer L | unatone | | | Seri | al Nu | mber 136 | 97 | Firmv | vare Ver 1 | .0.2 | |
| Member of Groups Member of Groups 0 1 2 3 4 6 7 9 0 1 12 13 4 15 0 1 2 3 4 6 7 8 9 0 1 12 13 44 15 0 1 2 3 4 6 7 8 9 0 1 12 13 14 15 0 1 2 3 4 6 7 8 9 0 1 12 14 15 0 1 1 4 6 5 7 9 9 11 12 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 13 14 15 16 16 16 16 16 16 16 16 16 | 1999 | DALI | Device T | ype 8 | | | | Short Address A0 Set | | | | | | | |
| 0 1 2 3 4 6 7 8 9 0 1 12 13 14 15 DTB - Tc Scree Light Levels (D00%), MASK, Colour temperature (D00X-649X) TL Imits T Limits DIB - Tc Colspan="2">Colspan="2" OI 1 2 AdX % Solspan="2" Colspan="2" Colspan="2" Colspan="2" OI 1 Colspan="2" Colspan="2" <td cols<="" td=""><td></td><td colspan="4">Member of Groups</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td> | <td></td> <td colspan="4">Member of Groups</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | | Member of Groups | | | | | | | | | | | | |
| 0 1 2 3 0 0 7 0 0 1 12 13 15 0 1 1 2 3 0 0 7 0 0 1 12 13 15 0 1 1 1 1 1 1 12 13 15 1 12 13 15 1 12 13 15 1 14 15 10 14 15 10 14 15 14 15 14 14 15 14 14 15 14 15 14 14 15 14 14 15 14 | | | | ÷ | - | _ | | | | | | | | | |
| Scene Light Levels (D. 100%), MASK, Colour temperature (2003/64930) T L Imits ON MAXX) MAXK % 6505 % (D 8 MAXK % 4016 %) Physical Warmest: 3003 ON MAXX) MAXK % 6506 % (D 10 MAXK % 3803 %) Physical Warmest: 3003 ON MAXX) MAXK % 6506 % (D 10 MAXK % 3063 %) Physical Warmest: 3003 ON MAXX) MAXK % 6506 % (D 10 MAXK % 3063 %) Physical Codest: 6493 ON MAXX MAXK % 6507 % (D 12 MAXK % 3063 %) T Warmest: 3003 OB MAXK % 6507 % (D 12 MAXK % 3026 %) T Warmest: 3003 OB MAXK % 629 % (D 12 MAXK % 3026 %) T Codest: 6493 Sobs/Stript MAXK % 6219 % (D 13 MAXK % 3026 %) T Codest: 6493 MAXK % 6219 % (D 11 MAXK % 3026 %) OLI Parameter OLI Parameter MAX Level MAXK % 6219 % O 100.00 % Power On Level MAXK % 000.00 % System Fiel Level MAXK % 000.00 % | | 0 | | 2 | 3 | 4 | 5 | 6 | | 8 9 | 10 | 11 12 | 13 14 | 15 | |
| Scene Light Levels (D. 100%), MASK, Colour temperature (2000/64930) T L Limits ON MAXO, O MAXK % 6555 % (B MAK % 4016 %) Physical Warmest: 3003 ON MAXO, 2 MASK % 6569 % (B MAK % 3881 %) Physical Colest: 6493 ON MAXO, 1 MASK % 6569 % (B MAK % 3881 %) Physical Colest: 6493 ON MAXO, 1 MASK % 6569 % (B MAK % 3881 %) Physical Colest: 6493 ON MAXO, 1 MASK % 6949 % (B MAK % 3086 %) T CWarmest: 3003 OB MAK % 4975 % (B 12 MAK % 3026 %) T CWarmest: 3003 Ses5% (S50) Chall Parameter 0 MAX Level 0.100 %, MASK % Oour Temperature 0.000 % System Fail Level MASK % Soon % 9 Jour Temperature 1.0 s Federate 0.000 % | Done of the second | | | | | | | | | | | | | | |
| 0 0 MASK % 6555 % % 8 MASK % 40.15 % % Physical Warmett: 300.3 0 MASK % 6500 % % 9 MASK % 303.1 % % Physical Warmett: 300.3 0 MASK % 6500 % % 9 MASK % 303.1 % % Physical Coolest: 649 0 MASK % 529.1 % % 11 MASK % 303.7 % T T Warmett: 300.3 0 5 MASK % 6494 % % 11 MASK % 300.7 % T C Warmett: 300.3 % 0.5 MASK % 6494 % % 11 MASK % 300.3 % T C Colest: 6493 0.5 MASK % 6494 % % 11.5 MASK % 300.3 % T C Colest: 6493 0.10 MASK % 6219 % % 15 MASK % 300.0 % T C | DALIC | DT8 - 1 | Tc | | | | | | | | | | | | |
| W0 MASK % 553 % 8 MASK % 40.5 % MASK % 40.5 % MASK % 40.5 % MASK % 40.5 % 30.3 % | > > \$ \$ \$ \$ | Scene | Light Lev | els (0 | . 100%]. | MAS | K, Colour | tempera | ature | (3003K-64 | 93K) - | Tc Limits | | | |
| WIN WASK % 5649 % W DI MASK % 3663 % Physical Coolest: 6493 MIN W ASK % 5251 % W DI MASK % 3088 % TC Warmest: 003 MIN ØS MASK % 4975 % W DI MASK % 3367 % TC Warmest: 003 MIN ØS MASK % 4975 % W DI MASK % 3367 % TC Warmest: 003 OFF Ø MASK % 4949 % W DI MASK % 3367 % TC Warmest: 003 Soft (250) MASK % 4219 % W DI MASK % 3003 % OELI Parameter 0 0 MASK % 4219 % W DI MASK % 0000 % 0.000 % | 0.0.000 | V 0 | MASK | % | 6535 | ٩ĸ | ▼ 8 | MASK | % | 4016 | ٩K | Physical Warn | nest: | 3003 % | |
| 0NI MAXQ MAX % 5201 % 11 MAX % 3003 % 0 MIN 13 MAX % 5201 % 11 MAX % 3003 % 0 MIN 13 MAX % 5201 % 11 MAX % 3003 % 0 MIN 15 MAX % 494 % 11 MAX % 3003 % 0 MIN 15 MAX % 4944 % 11 MAX % 3003 % 1 6483 % 6493 % 5003 % 1 6483 % 1 6483 % 1 6483 % 1 6483 % 1 6483 % 1 6483 % 1 6483 % 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | V 1 | MASK | % | 6060 | ٩ĸ | V 9 | MASK | % | 3831 | ٩K | | 0 | | |
| ON (MAN) III + MASK % 4975 % III + MASK % 3067 % T - Warmest: 3003 MIN IIS MASK % 4694 % III + MASK % 3256 % III + MASK % 3003 OFF IIG MASK % 4694 % III + MASK % 3256 % III + MASK % 1II + MASK % 3003 Ctual Level III + MASK % 4219 % III + MASK % 3003 % III + MASK % 0000 % DAL Parameter MALLevel III + MASK % 3003 % III + MASK % 0000 % BASK Level MALLevel III + MASK % 0000 % III + MASK % 0000 % Setat Level MALLevel III + MASK % 0000 % III + MASK % 0000 % Setat Level MASK % III + MASK % III + MASK % 0000 % III + MASK % Setat Level MASK % III + MASK % III + MASK % III + MASK % III + MASK % Setat Level MASK % III + MASK % III + MASK % III + MASK % III + MASK % Setat Level MASK % III + MASK % | 9 0 = 0 | V 2 | MASK | % | 5649 | °К | V 10 | MASK | % | 3663 | ٩K | Physical Coole | st: | 6493 % | |
| MIN MIN MAX % % % 3327 % T Wask % 444 % % MASK % 3327 % T Wask % 444 % % MASK % 3337 % T Colent 6493 % % 3115 % % Colent 6493 % % 3003 % T Colent % 0 % 0 % 0 0 % 0 0 % % 0 % 0 0 % 0 0 % 0 0 % 0 0 % % 0 0 % 0 0 0 < | 99 | V 3 | MASK | % | 5291 | ٩K | V 11 | MASK | % | 3508 | ٩K | | | -0- | |
| 00F 00S MAX % 00S % 0S 0S % | ON (MAX) | ₹4 | MASK | % | 4975 | ٩K | V 12 | MASK | % | 3367 | ٩K | Tc Warmest: | | 3003 % | |
| Ctual Level 0 <td< td=""><td>MIN</td><td>V 5</td><td>MASK</td><td>%</td><td>4694</td><td>٩K</td><td>V 13</td><td>MASK</td><td>%</td><td>3236</td><td>٩K</td><td></td><td>-0</td><td></td></td<> | MIN | V 5 | MASK | % | 4694 | ٩K | V 13 | MASK | % | 3236 | ٩K | | -0 | | |
| ALI Parameter 0.100 % S055% (25) 0.11 Parameter MN Level 0.100 % Power On Level 0.100 % Power On Level 0.100 % Set 9.11 Parameter 0.000 % 9.10 MAX Level Power On Level 0.100 % Set 9.10 MAX % 0.000 % 9.10 MAX % System Fail Level 0.000 % System Fail Level 0.000 % System Fail Tc MAXK % Power On Ta MAXK % System Fail Tc MAXK % Power On Ta MAXK % System Fail Tc MAXK % Solo3 %K 98.4 stepk | OFF | 6 | MASK | % | 4444 | ٩K | V 14 | MASK | % | 3115 | ۹K | Tc Coolest: | | 6493 % | |
| Obult Farmeter 0.00 % MM Kerel 0.00 % MAX Level 0.00 % Power On Level 0.00 % System Fail Level 0.00 % System Fail Cevel 0.00 % System Fail Cevel 0.00 % Fade rate 0.00 % 3003 "K | ctual Level: | 7 | MASK | % | 4219 | ٩K | 15 | MASK | % | 3003 | ٩K | | | -0- | |
| S000"K MAX Level 0 0.000 % H Act Level 0 0.000 % 0.000 % Power On Tec MASK % 0.000 % System Fail Level 0 0.000 % System Fail Level 0 0.000 % System Fail Level 0 0.000 % Solor Temperature Fade rate 0 89.4 step/step/step/step/step/step/step/step/ | | | Paramete | r | | | | | | | | | | | |
| et Act Level MAX Level 0.000 % Power On Level 0.000 % MAX % 0.000 % System Fail Level 0.000 % System Fail Level 0.000 % | | | MIN | Level | 0 | | | | | | | | 0.100 | % | |
| 0.000 % Power On Level MARK % 0.000 % System Fail Level 0.000 % Set System Fail Level 0.000 % System Fail Tc MASK % 0.000 % System Fail Tc MASK % 0.000 % Solour Temperature Fade me 0 89.4 step/n 3003 % 9.4 step/n | | | MAX | Level | | | | | | | | 0 | 100.00 | % | |
| 0.000 % Set of the Fail T (MAK × locur Imperature 3003 °K | et Act Level | P | ower On | Level | | | | | | | | 0 | MASK | % | |
| Set System Fail Level U 000.00 % System Fail Tc MASK % U 000.00 % olour Temperature Fade rate U 000.00 % 3003 % Fade rate U 000.00 % | | | Power (| On Tc | | N | IASK % | | | | | | | | |
| System Feel Tc MARK V Joor Temperature Fede rate Fode rate 0 3003 *K | | Sy | stem Fail | Level | | _ | | | | | | 0 | 100.00 | % | |
| Fode rate 0 89.4 step/s 3003 'K | Set | | System F | ail Tc | | N | IASK % | | | | | | | | |
| 3003 "K | olour Temperature | i – | Fade | time | | 0 | | | | | | | 1.0 | s | |
| | | | Fade | rate | | _ | | 0 | | | | | 89.4 | step/s | |
| | | | | | | | | | | | | | | | |
| | 3003 °K | | T. 01 | ~ | | 2 | | | | | | | | | |

Beside the DT8 Tc standard settings, the Tc stepsize can be increased, this is a simple way to speed up colour temperature changes when using the commands TC STEP COOLER/WARMER.

In all other operating modes (Balance&Dim /Dim2Warm) the following settings are provided.

Operating mode Balance&Dim; Dim2Warm:

| 祟. | | nufacturer L vice Type 6 | unatone | | Number 13 Address A0 | | Firmwa Se | t Ver 1.0. | 2 |
|--|---------|-----------------------------|-------------|--------|-------------------------|--------|--------------|------------|------|
| 0 0-0 | Membe | r of Groups | | | | | | | |
| | 0 | 1 2 | 3 4 | 5 6 7 | 8 9 | 10 11 | 12 | 13 14 | 15 |
| DALLowerun Damee and measure of the the constraints in the second of the Blumstone card of | | | | | | | | | |
| DALloww et al. Become and all and the set | General | 1 | | | | | | | |
| | Scenes | - Licht Level | [0100%], MA | 5К | | | | | |
| | | | | | | | | | |
| | 0 🗐 | MASK % | E 4 | MASK % | 8 🗐 | MASK % | | 12 MASK | |
| | 1 | MASK % | 5 | MASK % | 9 | MASK % | | | |
| ens | 2 | MASK % | 6 | MASK % | 10 | MASK % | | | |
| ON (MAX) | E 3 | MASK % | 7 | MASK % | 11 | MASK % | | 15 MASK | % |
| MIN | DALIP | arameter | | | | | | | |
| OFF | | MIN Level | 0 | | | | | 0.100 | % |
| ual Level: | | MAX Level | U | | | | -0 | 100 | |
| 9.65% (250) | | er On Level | | | | | | MASK | |
| | | | | | | | -0-1 | | |
| | Syster | m Fail Level | | | | | | 89.65 | % |
| Act Level | | Fade Time | 0 | - | | | | 1.0 s | |
| | | Fade Rate | r | 0 | | | | 89.4 st | ep/s |

For each address the group membership can be set as well as scene values and DALIparameters. In Balance&Dim operating mode all values assigned to channel 2 are representing the balance.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by a group address. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to the DALI default values as defined in the standard. Summary of the factory default settings (delivery state):

| operating mode | DT8 | | | | | |
|-------------------|---|--|--|--|--|--|
| SwitchDim2 | SwD1: level | | | | | |
| | SwD2: colour temperature | | | | | |
| Min Level | 0.1% | | | | | |
| PowerOn | MASK (last value) | | | | | |
| Level | | | | | | |
| Fade Time | 2 (1s) | | | | | |
| Fade Rate | 5 (89.4 steps/s) | | | | | |
| Tc-Stepsize | 3 increments | | | | | |
| PWM- | 122Hz | | | | | |
| frequency | | | | | | |
| Groups | G0 | | | | | |
| before intial | (or G0 and G1 in operating | | | | | |
| addressing: | mode Balance&Dim) | | | | | |
| Predefined | ₩ 0 MASK % 6535 % | | | | | |
| Scene Values: | | | | | | |
| Seche Values. | ☑ 3 MASK % 5291 % | | | | | |
| | ☑ 4 MASK % 4975 % | | | | | |
| | ▼ 5 MASK % 4694 % ▼ 6 MASK % 4444 % | | | | | |
| | Ø 6 MASK % 4444 % Ø Ø 7 MASK % 4219 % Ø | | | | | |
| | ▼8 MASK % 4016 % | | | | | |
| | ♥ 9 MASK % 3831 % | | | | | |
| | ✓ 10 MASK % 3663 °K | | | | | |
| | ✓ 11 MASK % 3508 % | | | | | |
| | | | | | | |
| | ✓ 13 MASK % 3236 % ✓ 14 MASK % 3115 % | | | | | |
| | ▼ 15 MASK % 3003 % | | | | | |

Purchase Order Information

Art.Nr. 89453836: DALI CW-WW LED Dimmer, CV, input current 4A, 12V-28V DC, back box

Art.Nr. 86458673: DALI CW-WW LED Dimmer, CV, input current 8A, 12V-48V DC, SwitchDim2, back box

Art.Nr. 89453838: DALI CW-WW LED Dimmer, CV, input current 10A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453841: DALI CW-WW LED Dimmer, CV, input current 16A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals <u>https://jumitech/produkter</u>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

JUMITECH

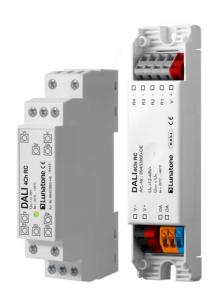


Datasheet

Control Gear

4-Channel Relay Control (DT7)

Art.Nr. 89453860-DE Art.Nr. 89453860-HS



DALI 4Ch RC Control Gear

Overview

- 4 channel relay control
- For the control of switched ballast via DALI
- Suitable for circuit breakers and relays with coils-voltages of 12V to 48V DC
- 4 DALI adresses, one for each channel (Device Type 7)
- configuration with DALI-Cockpit software tool and DALI USB-Interface
- 2 types of housing
- maximum input current 8A
- maximum output current of 2A per channel

Specification, Characteristics

| type | DALI 4Ch RC | | | | | |
|----------------|-------------|-------------|--|--|--|--|
| article number | 89453860-DE | 89453860-HS | | | | |

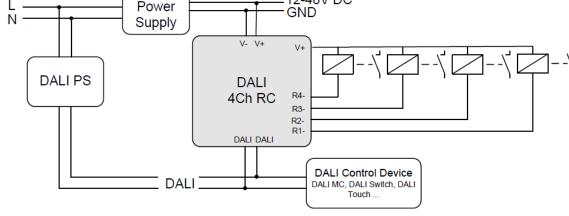
electrical data:

| supply voltage | 12VDC-48VDC (=relay coil voltage) | |
|------------------------------------|-----------------------------------|--|
| maximum input current | 8A | |
| max. output current per channel | 2A | |
| control input | DALI | |
| number of DALI addresses | 4 | |
| typ. current consumption DALI | 2mA | |

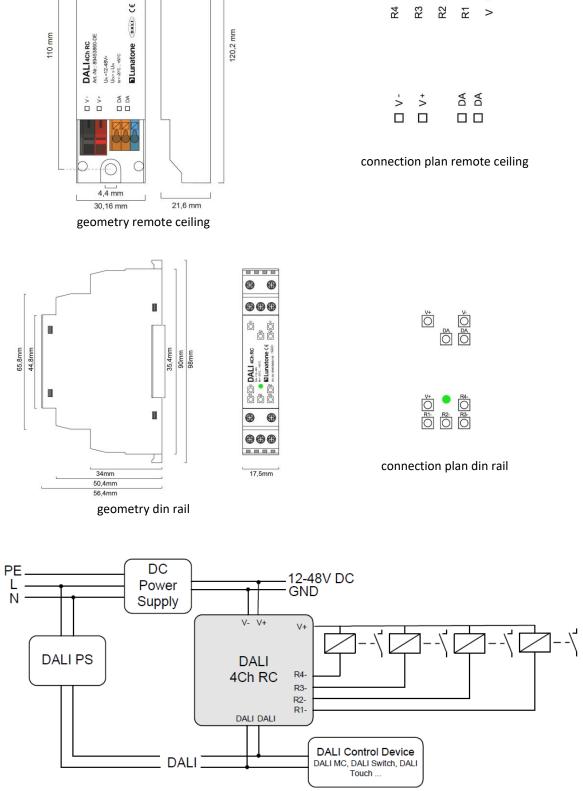
technical data:

| power on behaviour | programmable | | | | |
|------------------------|---------------------|----------------------|--|--|--|
| storing/transportation | -20°C+75°C | | | | |
| temperature | | | | | |
| operational ambient | ວດ°ດ | +60°C | | | |
| temperature | -20°C+60°C | | | | |
| protection class | IP20 | | | | |
| max. connecting wire | 2.5 | mm ² | | | |
| cross section | 2.51 | | | | |
| geometry | 120mm x 30mm x 22mm | 98mm x 17.5mm x 56mm | | | |
| type of housing | remote ceiling | din rail | | | |

2018/03/15



typical structure



 \bigcirc С

R2 -R2 -R4

JUMİTECH

ī ı I. I. +

Function

The DALI 4Ch RC offers 4 independent channels, of which each channel can be individually controlled via DALI. Hence loads can be switched on and off. Since each channel provides an integrated free-wheeling circuit, the module is suitable for inductive loads like coils of relays and circuit breakers.

Each channel of the DALI 4Ch RC acts like a standard DALI ballast for non-dimmable loads. It is based on the DALI specification for control gear (IEC 62386-102) and the device type 7 extension (IEC 62386-208). Therefore the switching characteristic is determined by the comparison of the virtual direct arc power level (VDAP) with 4 thresholds.

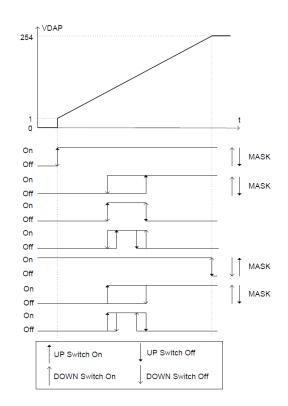
The virtual dim level (VDAP) is like the dim level of DALI-ballasts and is therefore limited by MINLEVEL and MAXLEVEL and influenced by fade-time and fade-rate.

For each dim direction 2 thresholds can be defined. They are compared with the virtual dim level and as a result the output is switched on or off:

| virtual dim direction | comparison of virtual dim level and thresholds | output |
|-----------------------------|--|--------|
| UP | VDAP>= UP SwitchOn Threshold | ON |
| UP | VDAP>= UP SwitchOff Threshold | OFF |
| DOWN | VDAP<= DOWN SwitchOn Threshold | ON |
| DOWN | VDAP<= DOWN SwitchOff Threshold | OFF |

If a threshold value is set to "MASK" the threshold is inactive and does not influence the relay output.

Find some examples of switching characteristics below:



With the help of the fade time switch on and switch off delays can be realized.

Purchase Information

Art. Nr. 89453860-HS: DALI 4Ch RC, Relay control modul with 4 independent channels, 4 DALI addresses (DT7), din rail mounting

Art. Nr. 89453860-DE: DALI 4Ch RC, Relay control modul with 4 independent channels, 4 DALI addresses (DT7), remote ceiling

Additional Information

Datasheets and manuals https://jumitech/produkter

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

JUMITECH

DALI 4Ch LED Dimmer CV

Datasheet

Control Gear

4-channel LED Dimmer (CV, DT6)

Art. Nr. 89453835 (8A) Art. Nr. 86459560 (10A) Art. Nr. 89453832 (16A) Art. Nr. 89453832-HS (16A, dinrail)



DALI 4Ch LED Dimmer CV Control Gear

Overview

- 4 channel DALI LED-Dimmer
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- **Operating Mode DT6**: individual channel control via 4 DALI addresses
- Operating Mode Colour&Dim: control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the colour
- SwitchDim2: 2 switch-inputs offer control of light level and colour without DALI
- dimming range 0.1%-100%
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)

Specification, Characteristics

- compact types for integration in luminaires, remote ceiling and dinrail mounting
- supply voltage 12V to 48V DC (according to the operating voltage of the led-modules)
- type dependent max. input currents of 8A, 10A or 16A
- the maximum input current can be distributed on the channels at will
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

| type | DALI 4Ch LED Dimmer | | | | | |
|----------------|---------------------|----------|----------|-------------|--|--|
| article number | 89453835 | 86459560 | 89453832 | 89453832-HS | | |

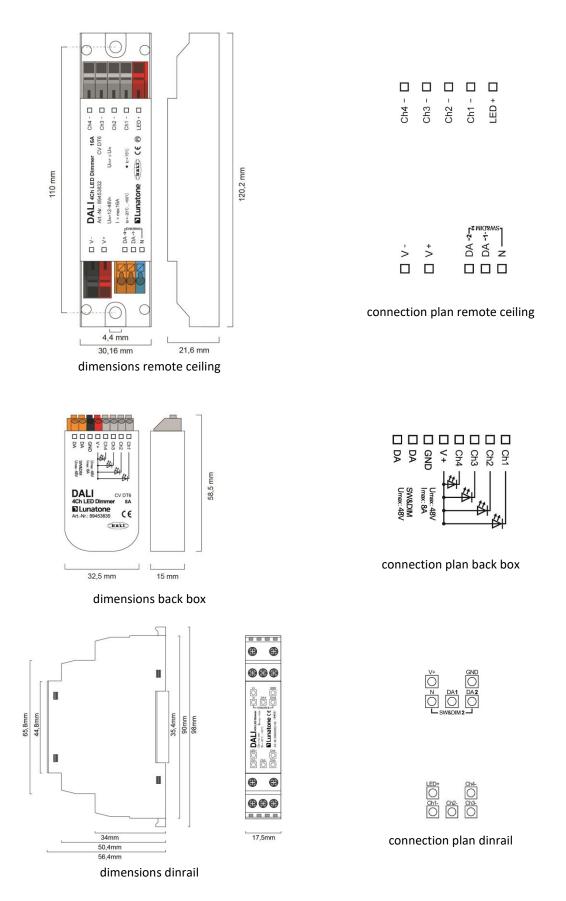
| electrical data. | | | | | |
|---------------------------------|---|--|--|--|--|
| supply voltage | 12VDC-48VDC | | | | |
| maximum input current linmax | 8A 10A 16A 16A | | | | |
| control input | DALI DALI SwitchDim2 (mains voltage) | | | | |
| current consumption DALI | 2mA | | | | |
| number of DALI-addresses | operating mode DT6: 4 operating mode Colour&Dim: 2 | | | | |
| standby power consumption (12V) | ~ 120mW | | | | |

technical data:

alactrical data

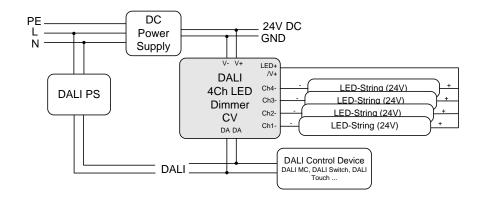
| power on behaviour | configurable: 0%-100% or last value | | | | |
|------------------------------------|-------------------------------------|---------------------|--|--|--|
| ambient temperature | -20°C to +60°C | | | | |
| expected lifetime (at Tc<=75°C) | >100000h | | | | |
| protection class | IP20 | | | | |
| max. connecting wire cross section | 1.5 mm ² | 2.5 mm ² | | | |
| dimensions (LxWxH) | 59x33x15 mm 120x30x22 mm 98x17x | | | | |
| housing/mounting | back box remote ceiling di | | | | |

JUMITECH

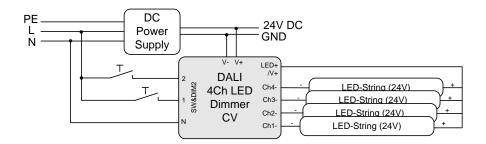


RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

DALI:



SwitchDim2:



Operating Modes

The device offers several operating modes:

DT6 (factory default)

In this operating mode each channel can be controlled by its own DALI address (Device Type 6).

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level

short press: On/Off long press: dimming SwD2: scene selector (short press)

Colour&Dim

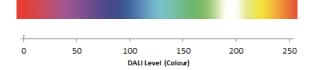
This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the light level and vice versa. For each channel only DALIstandard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

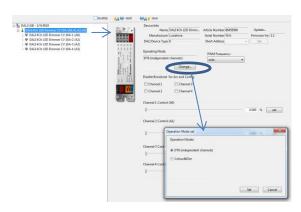
DALI-address 2, SwD2: colour



Selection of operating mode

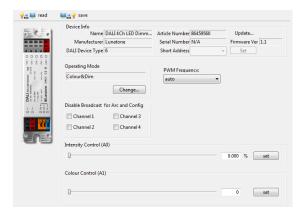
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT6:



In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (4 sliders for the level of each channel in operating mode DT6 and slider for level and colour in the operating mode Colour&Dim). Furthermore the broadcast control can be deactivated for each channel individually.

Operating mode Colour&Dim:



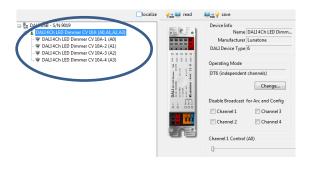
Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically. Operating Mode:

| Number | Operating Mode |
|--------|-----------------------|
| 0 | DT6 (factory default) |
| 0x90 | DT6 |
| 0x93 | Colour&Dim |

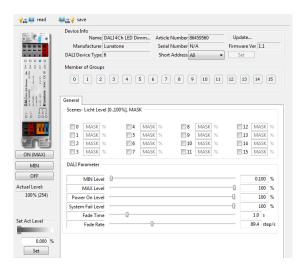
Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

Component Tree:



Settings for each channel (operating mode DT6 and Colour&Dim):



For each address the group membership can be set as well as scene values and DALIparameters. In Colour&Dim operating mode, all values assigned to channel 2 are representing colours.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group addresses. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to DALI default values as defined in the standard.

Summary of the factory default settings (delivery state):

| Operating mode | DT6 | | | | | | |
|-------------------|-------------------|------------|--------------|------------|----------|--|--|
| SwitchDim2 | SwD1: light level | | | | | | |
| SWITCHIBIII | | • | | tor | | | |
| | SwD2: | scene | selec | lor | | | |
| Min Level | 0.1% | | | | | | |
| PowerOn | MASK | (last v | alue) | | | | |
| Level | | • | , | | | | |
| Fade Time | 2 (1s) | | | | | | |
| Fade Rate | 5 (89.4 | 4 step | s/s) | | | | |
| PWM- | 122Hz | | | | | | |
| frequency | | | | | | | |
| | | | | | | | |
| Groups | G0 – c | | | | | | |
| before intial | G1 – c | hanne | el2 | | | | |
| addressing: | G2 – c | hanne | el3 | | | | |
| 0 | G3 – c | hanne | 4 | | | | |
| prodofined | Scene | Ch1 | Ch2 | Ch3 | Ch4 | | |
| predefined | 0 | 100% | 0% | 0% | 0% | | |
| scene values: | 1 | 0% | 100% | 0% | 0% | | |
| | 2 | 0% | 0% | 100% | 0% | | |
| | 3 | 0% | 0% | 0% | 100% | | |
| | 4 | 0% | 0% | 100% | 100% | | |
| | 5 | 0% | 100% | 0% | 100% | | |
| | 6 | 100% | 0% | 0% | 100% | | |
| | 7 | 100% | 0% | 100% | 0% | | |
| | 8 | 100% 0% | 100% 100% | 0% 100% | 0% 0% | | |
| | 10 | 100% | 0% | 100% | 100% | | |
| | 10 | 100% | 100% | 0% | 100% | | |
| | 12 | 100% | 100% | 100% | 0% | | |
| | 13 | 0% | 100% | 100% | 100% | | |
| | 14 | 100% | 100% | 100% | 100% | | |
| | 15 | 0% | 0% | 0% | 0% | | |

Purchase Order Information

Art.Nr. 89453835: 4-channel LED Dimmer, CV, max. input current 8A, 12V-48V DC, back box

Art.Nr. 86459560: 4-channel LED Dimmer, CV, max. input current 10A, 12V-48V DC,

SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453832: 4-channel LED Dimmer, CV, max. input current 16A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453832-HS: 4-channel LED Dimmer, CV, max. input current 16A, 12V-48V DC, SwitchDim2, din rail mounting

Additional Information

Datasheets and manuals https://jumitech/produkter

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk







Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

DALI 3Ch LED Dimmer CV

Datasheet

Control Gear

3-channel LED Dimmer (CV, DT6)

Art. Nr. 89453828 (4A) Art. Nr. 89453834 (8A) Art. Nr. 86459571 (10A) Art. Nr. 89453831 (16A)



DALI 3Ch LED Dimmer CV Control Gear

Overview

- 3 channel DALI LED-Dimmer
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- **Operating Mode DT6**: individual channel control via 3 DALI addresses
- Operating Mode Colour&Dim: control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the colour
- SwitchDim2: 2 switch-inputs offer control of light level and colour without DALI
- dimming range 0.1%-100%
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)

Specification, Characteristics

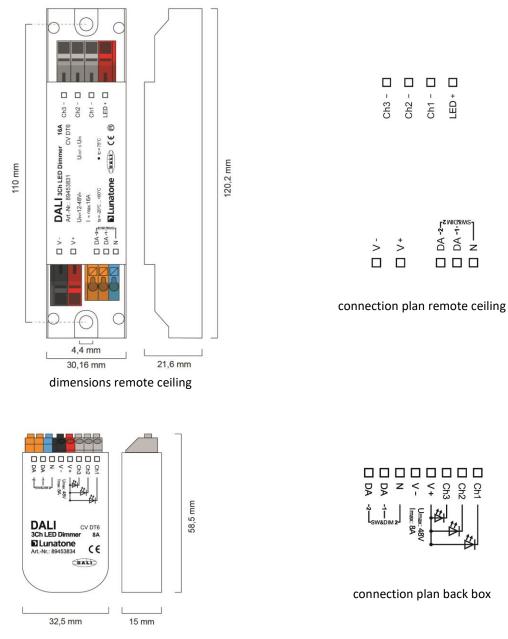
- compact types for integration in luminaires and remote ceiling
- supply voltage 12V to 48V DC (according to the operating voltage of the led modules)
- type dependent max. input currents of 4A, 8A, 10A or 16A
- the maximum input current can be distributed on the channels at will
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

| type | DALI 3Ch LED Dimmer | | | | |
|----------------|---------------------|----------|----------|----------|--|
| article number | 89453828 | 89453834 | 89459571 | 89453831 | |

| supply voltage | 12VDC-48VDC | | | | |
|---------------------------------|---|--|--|--|--|
| maximum input current linmax | 4A 8A 10A 16A | | | | |
| control input | DALI SwitchDim2 (mains voltage) | | | | |
| current consumption DALI | 2mA | | | | |
| number of DALI-addresses | operating mode DT6: 3 operating mode Colour&Dim: 2 | | | | |
| standby power consumption (12V) | ~ 120mW | | | | |

technical data:

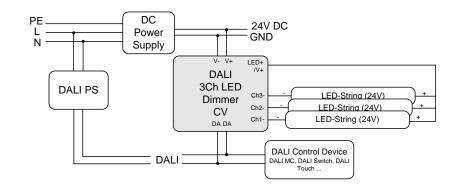
| configurable: 0%-100% or last value | | | | |
|---|--|--|--|--|
| -20°C to +60°C | | | | |
| >10000h | | | | |
| IP20 | | | | |
| 1.5 mm ² 2.5 mm ² / DALI&SwD: 1.5 m | | | | |
| 59x33x15 mm 120x30x22 mm | | | | |
| back box remote ceiling | | | | |
| | -20°C to >100 IP 1.5 mm ² 59x33x15 mm | | | |



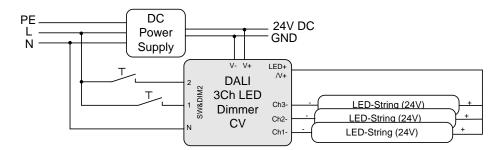
dimensions back box

RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

DALI:



SwitchDim2:



Operating Modes

The device offers several operating modes:

DT6 (factory default)

In this operating mode each channel can be controlled by its own DALI address (Device Type 6).

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level short press: On/Off long press: dimming SwD2: scene selector (short press)

Colour&Dim

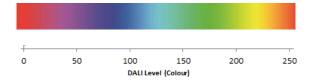
This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the light level and vice versa. For each channel only DALIstandard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

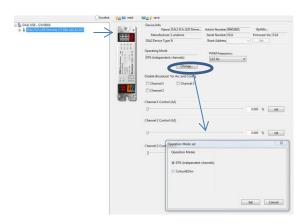
DALI-address 2, SwD2: colour



Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT6:



In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (3 sliders for the level of each channel in operating mode DT6 and slider for level and colour in the operating mode Colour&Dim). Furthermore the broadcast control can be deactivated for each channel individually.

Operating mode Colour&Dim:

| | Device Info Name DALI 3Ch LED Dimm Manufacturer Lunatone DALI Device Type 6 | Article Number 89453831 Serial Number N/A Short Address | Update Firmware Ver 0.14 |
|---------------------------|--|---|-----------------------------|
| Blumstone (kii) ((0 10-0 | Operating Mode Colour&Dim Change | PWM Frequency: auto | |
| | Disable Broadcast for Arc and Config Channel 1 Channel 3 Channel 2 | | |
| y | Intensity Control (A2) | | 0.000 % set |
| | Colour Control (A3) | | 0 set |

Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically.

Operating Mode:

| Number Operating Mode | | | | |
|-----------------------|-----------------------|--|--|--|
| 0 | DT6 (factory default) | | | |
| 0x90 | DT6 | | | |
| 0x93 | Colour&Dim | | | |

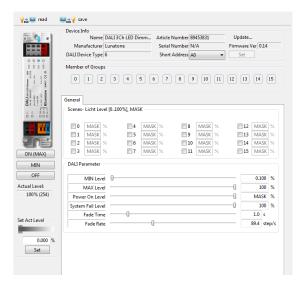
Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

Component Tree:



Settings for each channel (operating mode DT6 and Colour&Dim):



For each address the group membership can be set as well as scene values and DALIparameters. In Colour&Dim operating mode, all values assigned to channel 2 are representing colours.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group addresses. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to DALI default values as defined in the standard.

Summary of the factory default settings (delivery state):

| Operating mode | DT6 | | | | | |
|-------------------|----------------------|-----------|----------|----------|--|--|
| SwitchDim | SwD1: light level | | | | | |
| 2 | SwD2: scene selector | | | | | |
| Min Level | 0.1% | | | | | |
| PowerOn | MASK (| last valu | le) | | | |
| Level | | | | | | |
| Fade Time | 2 (1s) | | | | | |
| Fade Rate | 5 (89.4 | steps/s |) | | | |
| PWM- | 122Hz | - | | | | |
| frequency | | | | | | |
| Groups | G0 – ch | annel1 | | | | |
| before | G1 – ch | annel2 | | | | |
| intial | G2 – ch | annel3 | | | | |
| addressing: | | | | | | |
| predefined | Scen | Ch1 | Ch2 | Ch3 | | |
| scene | е | | | | | |
| values | 0, 8 | 100 % | 0% | 0% | | |
| | 1, 9 | 0% | 100 | 0% | | |
| | | | % | | | |
| | 2, 10 | 0% | 0% | 100 | | |
| | | 00/ | 100 | % | | |
| | 3, 11 | 0% | 100 % | 100 % | | |
| | 4,12 | 100 | 0% | 100 | | |
| | 4,12 | % | 070 | % | | |
| | 5, 13 | 100 | 100 | 0% | | |
| | , | % | % | | | |
| | 6, 14 | 100 | 100 | 100 | | |
| | | % | % | % | | |
| | 7, 15 | 0% | 0% | 0% | | |

Purchase Order Information

Art.Nr. 89453828: 3-channel LED Dimmer, CV, max. input current 4A, 12V-48V DC, back box

Art.Nr. 89453834: 3-channel LED Dimmer, CV, max. input current 8A, 12V-48V DC, back box

Art.Nr. 86459571: 3-channel LED Dimmer, CV, max. input current 10A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453831: 3-channel LED Dimmer, CV, max. input current 16A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals <u>https://jumitech/produkter</u>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

DALI 2xCW-WW LED Dimmer 12V -48V

Datasheet

Control Gear

2xDALI LED Dimmer (DT8) for adjusting light level and colour temperature



Art. Nr. 89453858-HS (16A, CV)

DALI 2xCW-WW LED-Dimmer Control Gear

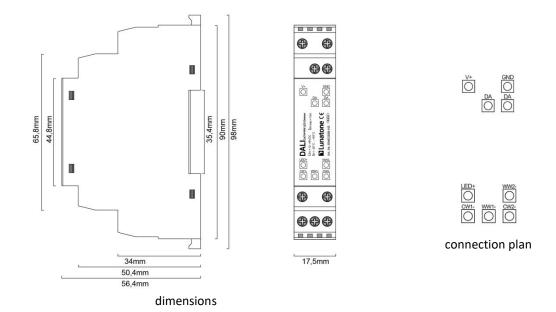
Overview

- Device with 2 DALI Tunable White LED-Dimmer
- Suitable for constant voltage LEDmodules with 12V to 48V
- 2 DALI adresses (Device Type 8, Colour Type Tc)
- Each DT8-Tc adress provides independent control of light level and colour temperature
- dimming range 1%-100%

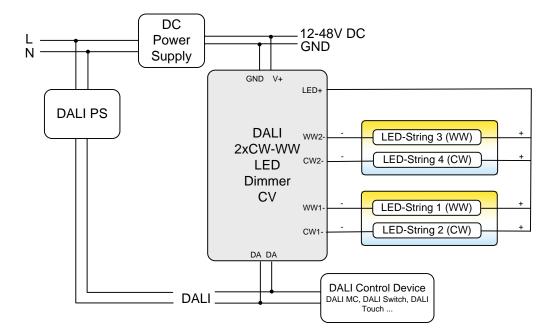
- PWM-frequency 488Hz
- suitable for dinrail mounting
- supply voltage from 12V to 48V DC
- input current from 0.1A to 16A
- The input current can be distributed on the outputs at will
- low standby losses
- high efficiency >98%
- configuration via DALI-Cockpit software tool and DALI USB interface

Specification, Characterisitics

| type | DALI 2xCW-WW Led Dimmer | | |
|--|--|--|--|
| article number | 89453858-HS | | |
| electrical data: | | | |
| supply voltage V _{in} | 12VDC-48VDC | | |
| max. input current I _{inmax} | 16A | | |
| control input | DALI | | |
| current consumption DALI | 2mA | | |
| number of DALI adresses | 2 (DT8-Tc) | | |
| standby losses (12V) | 120 mW | | |
| technical data: | | | |
| power on behaviour | configurable via DALI: 0%-100%, last value | | |
| storage and transportation temperature | -20°C +75°C | | |
| operational ambient temperature | -20°C +60°C | | |
| expected lifetime (at Tc<=75°C) | >10 years | | |
| protection class | IP20 | | |
| max. connecting wire crosssection | 2.5 mm ² | | |
| dimensions (LxWxH) | 98mm x 17.5mm x 56mm | | |
| mounting/housing | dinrail | | |



Application DALI:

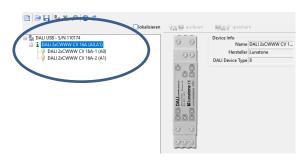


Settings

The device provides 2 Tunable White LEDdimmers. Each of them is controlled by a separate DALI-address. DT8-commands (colour-type Tc) are supported, which allows independent control of light level and colour temperature.

The dimmers can be selected in the component tree. The parameter of each dimmer can be set afterwards.

Component Tree:



Factory Default Settings

Summary of the factory default settings (delivery state for each of the CW-WW dimmers):

| Min Level | 1% |
|-------------|-------------------|
| PowerOn | MASK (last value) |
| Level | |
| Fade Time | 0 (0s) |
| Fade Rate | 7 (89.4 steps/s) |
| Tc-Range | 2940K-6250K |
| Tc-Stepsize | 1 increment |

Purchase Information

Art.Nr. 89453858-HS:

DALI 2xCW-WW LED Dimmer, constant voltage (CV), max. input current 16A, 12V-48V DC, 2 DALI adresses (DT8-Tc), dinrail

Settings of each DT8-Tc dimmer (displayed parameters are the factory default values):

| 0 0 | - Device Info | | | | | | |
|------------------------------|---------------|-----------------|---------------------|-------------------|-------------|-------------------|-------------|
| | | Name DALI 2 | CWWW CV 1 | Artikelnummer | 89453858-HS | Update | |
| 00 | He | rsteller Lunato | ne | Seriennummer | r 0 | Firmware Ver | 2.6 |
| | DALI Devic | e Type 8 | | Short Address | A0 | ✓ Set | |
| DAU amount | Gruppenzu | gehörigkeit | | | | | |
| ALL | | 23 | 4 5 | 6 7 8 | 9 10 1: | 1 12 13 | 14 15 |
| | | | | | | | 11 15 |
| | DALI Param | eters Lunato | ne Extensions | | | | |
| 000 | Szenen-L | ichtpegel [010 | 0%], MASK, Farbt | temperatur (2941K | -6250K) | Tc Limits | |
| and the second | | % | ж 8 | % | •K | Physical Warmest: | 2941 |
| EIN (MAX) | 1 | % | °К □9 | % | ۰K | | |
| MIN | 2 | % | °к □10 | % | ٩K | Physical Coolest: | 6250 |
| AUS | 3 | % | °к □11 | 1 % | ۰K | | |
| ctual Values | 4 | % | •к 🗆 12 | 2 % | ۰K | Tc Warmest: | 2941 |
| ctual Level: | 5 | % | °К 🗌 13 | 3 % | ۰K | | |
| 254 | 6 | % | °К 🗌 🕯 | 4 % | ٩K | Tc Coolest: | 6250 |
| ctual Colour alue Tc (K): | 7 | % | °К 🗌 15 | 5 % | ٩K | | - |
| 5376 | DALI Para | meter | | | | | |
| | | MIN Level | | | | | 1.018 % |
| et Values | | MAX Level | | | | | 100.00 % |
| - 1 - C | Powe | r On Level | | | | | 100.00 % |
| 100 % ändern! | Po | wer On Tc | MASK °K | | | | |
| | System | Fail Level | | | | | 100.00 % |
| | Syst | em Fail Tc | MASK [°] K | | | | |
| 5376 °K | | Fade Time | | | | r | io fade is |
| ändern! | | ade Rate | | | | — | 44.7 step/s |

Beside the DT8 Tc standard settings, the Tcstepsize can be increased in the "Lunatone Extensions" tab. This is a simple way to speed up colour temperature changes when using the commands TC STEP COOLER/WARMER.

Additional Information

Datasheets and manuals <u>https://jumitech/produkter</u>

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

DALI 2Ch LED Dimmer CV

Datasheet

Control Gear

2-channel LED Dimmer (CV, DT6)

Art.Nr. 89453827 (4A) Art.Nr. 89453833 (8A) Art.Nr. 86459561 (10A) Art.Nr. 89453830 (16A)



DALI 2Ch LED-Dimmer CV Control Gear

Overview

- 2 channel DALI LED-Dimmer
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- **Operating Mode DT6**: individual channel control via 2 DALI addresses
- Operating Mode Balance&Dim: control by 2 DALI-addresses, one for adjusting the light level and one for adjusting the channel balance (e.g. colour temperature)
- Operating Mode Dim2Warm: one DALI-address for simultaneous adjustment of light level and colour temperature
- SwitchDim2: 2 switch-inputs offer control of light level and colour without DALI
- dimming range 0.1%-100%

- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- compact types for integration in luminaires or remote ceiling
- supply voltage type dependent of 12V to 28V DC or from 12V to 48V DC (according to the operating voltage of the led modules)
- type dependent max. input currents of 4A, 8A, 10A or 16A
- the maximum input current can be distributed on the channels at will
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

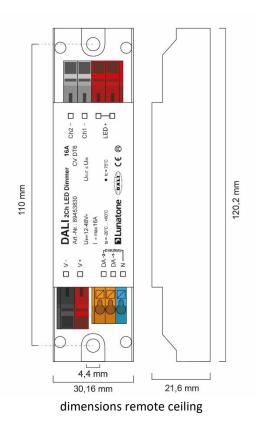
Specification, Characteristics

| type | DALI 2Ch Led Dimmer CV | | | | |
|---------------------------------|------------------------------------|----------------------------|----------|----------|--|
| article number | 89453827 | 89453833 | 86459561 | 89453830 | |
| | | | | | |
| electrical data: | | | | | |
| supply voltage Vin | 12V-28VDC | 12VDC-48VDC | | | |
| maximum input current linmax | 4A | 8A | 10A | 16A | |
| control input | DALI | DALI | | | |
| control input | | SwitchDim2 (mains voltage) | | | |
| current consumption DALI | 2mA | | | | |
| number of DALI-addresses | operating mode Dim2Warm: 1 | | | | |
| Indiliber of DALI-addresses | operating mode DT6, Balance&Dim: 2 | | | | |
| standby power consumption (12V) | 120 mW | | | | |

| type | DALI 2Ch Led Dimmer CV | | | | |
|----------------|------------------------|----------|----------|----------|--|
| article number | 89453827 | 89453833 | 86459561 | 89453830 | |

technical data:

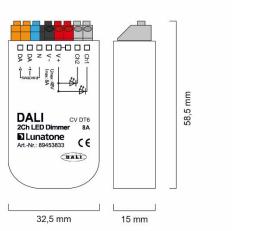
| technical data: | | | | | |
|------------------------------------|--|--|--|--|--|
| power on behaviour | configurable via DALI: 0%-100% or last value | | | | |
| ambient temperature | -20°C to +60°C | | | | |
| expected lifetime (at Tc<=75°C) | >100000h | | | | |
| protection class | IP20 | | | | |
| max. connecting wire cross section | 1.5 mm ² | | 1.5 mm ² , supply (V+, V-): 2.5 mm ² | | |
| dimensions (LxWxH) | 40x28x14 mm 59x33x15 mm | | 120x30x22 mm | | |
| housing/mounting | back box remote ceiling | | | | |



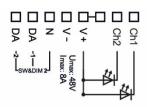
| Ch2 - | Ch1 - | LED + |
|-------|-------|-------|

| - | + | NA SMIG8WS |
|---|---|---------------|
| | | |

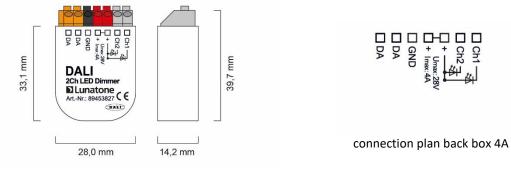
connection plan remote ceiling



dimensions back box 8A



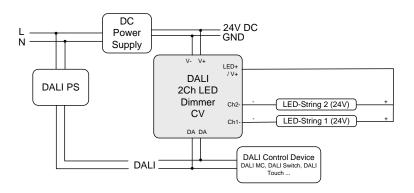
connection plan back box 8A



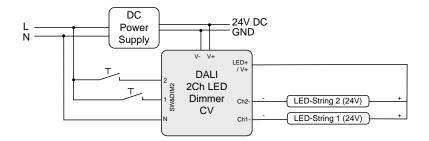
dimensions back box 4A

RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

DALI:



SwitchDim2:



Operating Modes

The device offers several operating modes:

DT6 (factory default)

In this operating mode each channel can be controlled by its own DALI address (Device Type 6).

Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

SwD1: light level short press: On/Off long press: dimming SwD2: scene selector (short press)

Balance&Dim

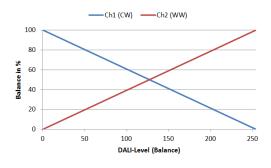
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

The Balance&Dim mode allows colour temperature adjustments without affecting the light level and vice versa. For each channel only DALI-standard commands like dim up/down but also DAP are used. Thus the device can be used with all common controls and gateways (e.g. KNX). The Balance&Dim mode provides an alternative to the DT8-Tc mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

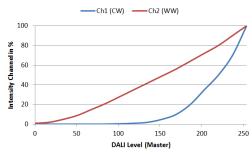
DALI-address 2, SwD2: balance

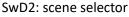


Dim2Warm

Both output channels are controlled by one DALI-address or SwD-input. The balance is coupled directly to the DALI dim level – the smaller the dim level the warmer the light.

DALI-address 1, SwD1: Dim2Warm (Master) short press: On/Off long press: dimming

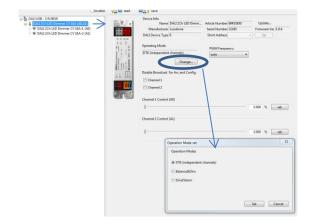




Selection of operating mode

With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT6:



In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (2 sliders for the level of each channel in operating mode DT6; Balance&Dim: slider for level and balance, Dim2Warm: slider for input value adaption and Edit-Function for the Dim2Warm-table). Furthermore the broadcast control can be deactivated for each channel individually.

Operating Mode Balance&Dim:

| 😪 📰 read | 💷 🔐 💡 save | | |
|--|---|---|-------------------------------|
| C DMLANDER DE CONTRACTOR DE CO | Device Info Manufacturer [Lunatone DALI Device Type 6 Operating Mode Balance&Dim Change Disable Broadcast for Arc and Config Channel 1 Channel 2 | Article Number (8945830) Serial Number (12345 Short Address PWM Frequency: auto | Updete Firmware Ver [1.0.4 |
| | Intensity Control (A0) Balance Control (A1) Channel 1 | (| 0.000 % set |
| | 100.0 % | | 0.0 % set |

Operating Mode Dim2Warm:

| | Device Info Name Manufacturer DALI Device Type | | 5 | ticle Num erial Num ihort Addr | | 30 | Firm | pdate ware Ver Set | 1.0.4 |
|-----|---|---|--|--------------------------------------|---------|----------|------|--------------------------|-------|
| 0 | perating Mode | | | PWM Fre | | | | | |
| i i | Dim2Warm | | | auto | quency. | • | | | |
| | | Change | | | | | | | |
| D | isable Broadcast | for Arc and Cor | nfig | | | | | | |
| | Channel 1 | | | | | | | | |
| | Channel 2 | | | | | | | | |
| 1. | _ chunner z | | | | | | | | |
| J | im2Warm Contro | ol (A0) | | | | | | | |
| | | | | | | | | | |
| | 0 | | | | | | | | |
| | Edit Dim2Wa | arm table | \mathbf{P} | | | | | % | se |
| | Edit Dim2Wa | table values | P | | | | | % X | SI |
| | Edit Dim2Wa Edit Dim2Warm Dim To Warm | table values Table | | | Cold: | | | | se |
| | Edit Dim2Wa Edit Dim2Warm Dim To Warm Master % | table values Table CW % | WW % | | Cold: | | | × | se |
| | Edit Dim2Warm Dim To Warm Master % 0 | table values Table CW % 0.05 | 0.50 | | | W 5 % | arm: | | Se |
| | Edit Dim2Wa Edit Dim2Warm Dim To Warm Master % | table values Table CW % | | | | | arm: | × | 51 |
| | Edit Dim2Warm Dim To Warm Master % 0 6 | table values Table CW % 0.05 0.05 | 0.50 | | | | arm: | × | se |
| | Edit Dim2Warm 1 Dim To Warm Master % 0 6 13 | table values Table CW % 0.05 0.05 0.05 | 0.50 1.00 2.50 | - | | | arm: | × | se |
| | Edit Dim2Warm Dim To Warm Master % 0 6 13 20 | Table values Table CW % 0.05 0.05 0.05 0.05 | 0.50 1.00 2.50 4.50 | - | | | arm: | × | se |
| | Edit Dim2Warm Dim To Warm Master % 0 6 13 20 26 | table values Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 | 0.50 1.00 2.50 4.50 7.50 | - | | | arm: | × | se |
| | Edit Dim2Warm Dim To Warm Master % 6 13 20 26 33 | table values Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 0.10 | 0.50 1.00 2.50 4.50 7.50 10.50 | - | | | arm: | × | 56 |
| | Edit Dim2Warm Dim To Warm Master % 0 6 13 20 26 33 40 | table values Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.10 0.25 | 0.50 1.00 2.50 4.50 7.50 10.50 14.00 | - | | | arm: | × | 56 |
| | Edit Dim2Warm Dim To Warm Master % 0 6 13 20 26 33 40 46 | table values Table CW % 0.05 0.05 0.05 0.05 0.05 0.10 0.25 0.50 | 0.50 1.00 2.50 4.50 7.50 10.50 14.00 17.50 | - | | | arm: | × | se |
| | Edit Dim2Warm - Dim To Warm - Dim To Warm - Master % 0 6 13 20 26 33 40 40 46 53 | table values Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.0 | 0.50 1.00 2.50 4.50 7.50 10.50 14.00 17.50 21.00 | - | | | arm: | × | Se |

Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment is performed automatically.

Operating Mode:

| Number | Operating Mode | | |
|--------|-----------------------|--|--|
| 0x0 | DT6 (factory default) | | |
| 0x90 | DT6 | | |
| 0x94 | Balance&Dim | | |
| 0x95 | Dim2Warm | | |

Additional Settings

Besides the settings on the general page each channel can be selected separately in the component tree for individual configuration.

Component Tree:



Settings for each channel (similar for all operating modes), the displayed parameters are the factory default values:

| 😪 📰 read | 🔤 📸 🂡 save | | |
|--|---|----------------------------------|--------------|
| | Device Info Name [DALI 2Ch LED Dimm Manufacturer Lunatone Serial Number 12345 I DALI Device Type [6 Short Address [40 ♥] | Update Firmware Ver 1 Set | .0.4 |
| DAL Ion up teams in on or of the second seco | Member of Groups | 12 13 14 | 15 |
| DAL Janua Arian Banasa Arian Banasa Arian Banasa Arian Banasa Buradone | General Scenes- Licht Level [0100%], MASK | | |
| | 0 MASK % 4 MASK % 8 MASK % 1 MASK % 5 MASK % 9 MASK % 2 MASK % 6 MASK % 10 MASS % 3 MASK % 7 MASK % 11 MASS % | 12 MA 13 MA 14 MA 15 MA | SK % SK % |
| MIN | DALI Parameter | | |
| | MIN Level 0 | 0.1 | |
| Actual Level: | MAX Level | - | 00 % |
| 100% (254) | Power On Level | -0 MA | |
| | System Fail Level | - | 00 % |
| Set Act Level | Fade Time 0 | 1.0 | s |
| Set ACT LEVEL | Fade Rate | 89.4 | step/s |
| 0.000 % | | | |

For each address the group membership can be set as well as scene values and DALIparameters. In Balance&Dim operating mode all values assigned to channel 2 are representing the balance.

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group addresses G0 and G1. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to DALI default values as defined in the standard.

Summary of the factory default settings (delivery state):

| operating mode | DT6 | | | | |
|-------------------|---------------------|----------|-----|--|--|
| SwitchDim2 | SwD1: light | level | | | |
| | SwD2: scen | e select | or | | |
| Min Level | 0.1% | | | | |
| PowerOn Level | MASK (last | value) | | | |
| Fade Time | 2 (1s) | | | | |
| Fade Rate | 5 (89.4 step | s/s) | | | |
| PWM- | 122Hz | | | | |
| frequency | | | | | |
| Groups before | G0 – chann | el O | | | |
| intial | G1 – chann | el 1 | | | |
| addressing: | | | | | |
| predefined | Scene | Ch1 | Ch2 | | |
| scene values | 0, 4, 8, 12 100% 0% | | | | |
| | 1, 5, 9, 13 0% 100% | | | | |
| | 2, 6, 10, 100% 100% | | | | |
| | 14 | | | | |
| | 3, 7, 11, | 0% | 0% | | |
| | 15 | | | | |

Purchase Order Information

Art.Nr. 89453827: 2-channel LED Dimmer, CV, max. input current 4A, 12V-28V DC, back box

Art.Nr. 89453833: 2-channel LED Dimmer, CV, max. input current 8A, 12V-28V DC, SwitchDim2, back box

Art.Nr. 86459561: 2-channel LED Dimmer, CV, max. input current 10A, 12V-48V DC,

SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453830: 2-channel LED Dimmer, CV, max. input current 16A, 12V-48V DC, SwitchDim2, remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals https://jumitech/produkter

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk



Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

DALI 1Ch LED Dimmer CV

Datasheet

Control Gear

1-channel LED Dimmer (CV, DT6)

Art. Nr. 89453826 (4A) Art. Nr. 86459556 (8A) Art. Nr. 86459572 (10A) Art. Nr. 89453829 (16A)



DALI 1Ch LED Dimmer CV Control Gear

Overview

- 1 channel DALI LED-Dimmer
- suitable for constant voltage LEDmodules with operating voltages from 12V to 48V
- Sw&Dim or SwitchDim2: 1 or 2 switch inputs offer control of light level control without DALI, up from FW 4.0 device can be alternatively controlled directly by a motion sensor (corridor function)
- dimming range 0.1%-100%
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)

- compact types for integration in luminaires or remote ceiling
- supply voltage type dependent of 12V to 28V DC or from 12V to 48V DC (according to the operating voltage of the led modules)
- type dependent max. input currents of 4A, 8A, 10A or 16A
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

Specification, Characteristics

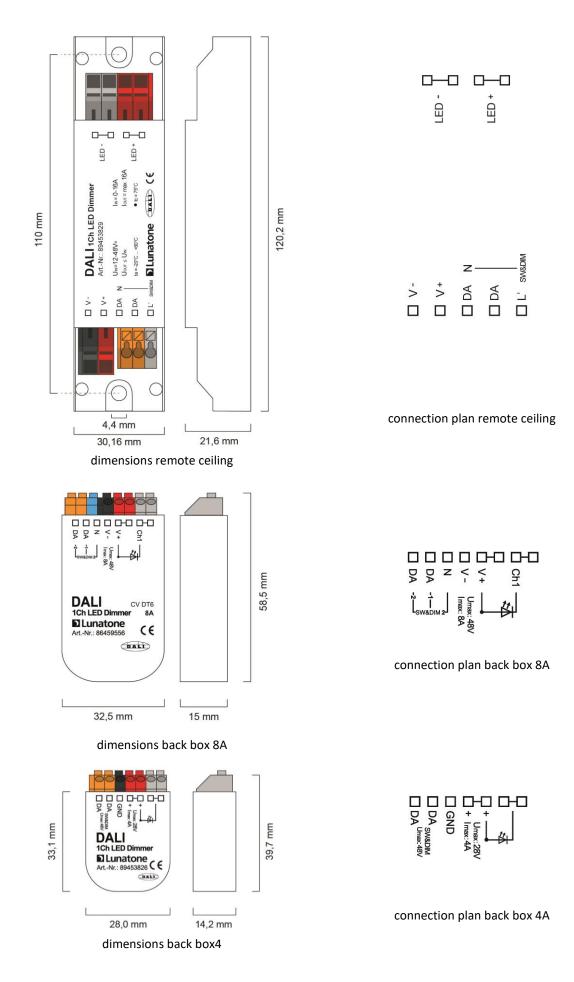
| type | DALI 1Ch Led Dimmer CV | | | | |
|----------------|------------------------|----------|----------|----------|--|
| article number | 89453826 | 86459556 | 86459572 | 89453829 | |

electrical data:

| supply voltage Vin | 12V-28VDC | 12VDC-48VDC | | |
|---------------------------------|--------------------|---------------------------------------|--------------------------------|-----|
| maximum input current linmax | 4A | 8A | 10A | 16A |
| control input | DALI Sw&Dim 48V | DALI SwitchDim2 (mains voltage) | DALI Sw&Dim (mains voltage) | |
| current consumption DALI | 2mA | | | |
| number of DALI-addresses | 1 | | | |
| standby power consumption (12V) | | 12 | 0 mW | |

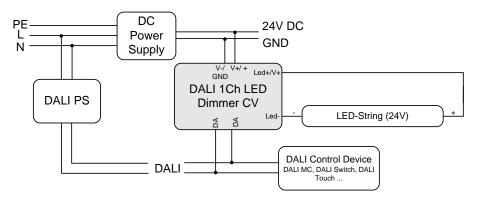
technical data:

| power on behaviour | configurable via DALI: 0%-100% or last value | | | | |
|---|--|-------|--|--|--|
| storing- and transportation temperature | -20°C +75°C | | | | |
| ambient temperature | -20°C +60°C | | | | |
| expected lifetime (at Tc<=75°C) | >100000h | | | | |
| protection class | IP20 | | | | |
| max. connecting wire cross section | 1.5 mm ² | | 2.5 mm ² , DALI/Sw&Dim: 1.5 mm ² | | |
| dimensions (LxWxH) | 40x28x14 mm 59x33x15 mm | | 120x30x22 mm | | |
| housing/mounting | bacl | k box | remote ceiling | | |



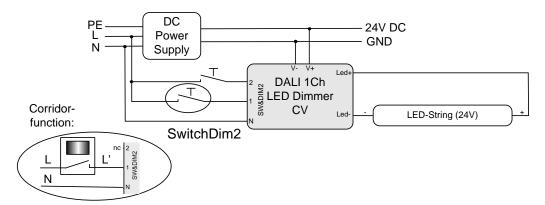
RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

DALI:



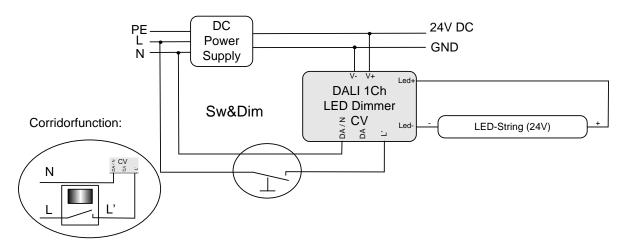
SwitchDim2 (8A type):

- control via 2 pushbuttons or
- alternatively by a motion sensor with relay output (on input SwD1)

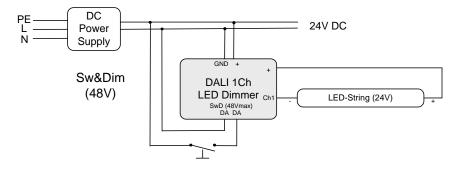


Sw&Dim (10A/16A types): - Switch and Dim

- control via pushbuttons or
- alternatively by a motion sensor with relay output



Sw&Dim 48V (4A type): - Switch and Dim



Operating Modes

The output is controlled by by its DALI address (Device Type 6).

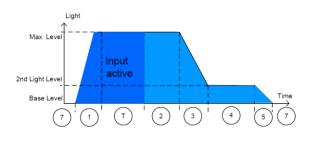
Alternatively the device can be controlled by one (Sw&Dim) or two switch inputs (SwitchDim2):

SwD1,Sw&Dim: light level short press: On/Off long press: dimming SwD2: scene selector (short press)

If the SwD1-input is pressed for 2 minutes the device changes the operating mode to "corridorfunction". This mode stays active until the device is power cycled (on power up the standard switchdim operation is active).

Corridor Function (up from FW 4.0)

This mode provides a staircase function (e.g. to control the device directly with the relay output of one or more motion sensors). On input action the LED-output is switched to max level. After the holdtime the output switches to a second light value before switching to the base level. If the input is activated again, the sequence is restarted.



sequence of corridor function

States and Default values of the corridor function:

| 1 – Fade-In Time: | immidiate |
|-------------------------|------------|
| 2 – Holdtime Max Level: | 10 minutes |
| 3 – Fade Time: | 5 seconds |
| 4 – HoldTime 2nd Level: | 10 minutes |
| 5 – Fade Out Time: | 5 seconds |
| Max Level (P,2): | 100% |
| 2nd Light Level (4): | 50% |
| Base Level (7): | 0% |

Hint: forerunner types of the 10A/16A, which do not have inputs marked with L' and N, do not support Sw&Dim with mains voltage, only 48V DC may be used for SwD operation.

DALI-Cockpit Settings:

With the help of the DALI-Cockpit software the device can be configured. The device can be assigned to groups, scene values can be set and parameters can be defined (the

parameters shown in the pic are default values):

| | Device Info Name DALI 1 Hersteller Lunat DALI Device Type 6 | | | Serienn | ummer 864 ummer 634 Address A0 | 425 | • | Update Firmware Set | | 0.6 |
|--|--|------------|----------|---------|--------------------------------------|-------|----|---------------------------|------|--------|
| Name 14 Or Dis LED. Une (h | Gruppenzugehörigkeit | 4 | 5 6 | 7 | 89 | 10 | 11 | 12 13 | 14 | 15 |
| DALI Fox Los An Ar Bealann Land Rev Long Jan Long Jan Lunatione | Allgemein | | | | | | | | | |
| | Szenen- Lichtpegel [0.1 | 00%], MAS | к | | | | | | | |
| 0 0 0 0 0 | V 0 100 % | ☑ 4 | 15.62 | | ✓ 8 | 2.44 | % | ✓ 12 | 0.20 | 1 % |
| | V 100 % | ✓ 4 | 9.82 | | V 8 V 9 | 2.44 | % | V 12 V 13 | | 1% |
| | 2 39.52 % | V 6 | 6.17 | | V 9 V 10 | 0.964 | % | V 14 | | |
| EIN (MAX) | 3 24.85 % | 7 | 3.88 | | 11 | 0.606 | % | ▼ 15 | | |
| MIN | DALI Parameter | | | | | | | | | |
| AUS | | | | | | | | | | |
| | MIN Level | | | | | | | _ | 0.10 | 0 % |
| ual Level: | MAX Level | | | | | | | -0 | 10 | 0 % |
| 100% (254) | Power On Level | | | | | | | -0 | MAS | К % |
| | System Fail Level | | | | | | | -0 | 10 | 0 % |
| Actilevel | Fade Time | 0 | | | | | | _ | 1.0 | |
| Act Level | Fade Rate | | -0 | | | | | _ | 89.4 | step/s |
| 0.000 % | PWM Frequency: | | | | | | | | | |
| ändern! | auto | | | | | | | | | |
| | | | | | | | | | | |
| | Disable Broadcast for A | Arc and Co | nfig Con | nmands | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group address GO. This predefined grouping will be deleted during the first addressing procedure. Afterwards groups can be assigned as usual (e.g. with the help of the DALI Cockpit). By sending a DALI-Reset command the device is set to DALI default values as defined in the standard.

Summary of the factory default settings (delivery state):

| operating mode | DT6 | | |
|-------------------|----------------------|--------------|--|
| SwitchDim2 | SwD1: light level | | |
| | SwD2: scene selector | | |
| Min Level | 0.1% | | |
| PowerOn Level | MASK (last value) | | |
| Fade Time | 2 (1s) | | |
| Fade Rate | 5 (89.4 steps/s) | | |
| PWM- | 122Hz | | |
| frequency | | | |
| Groups before | G0 | | |
| intial | | | |
| addressing | | | |
| scene values: | Scene 0: 254 | Scene 8: 118 | |
| | Scene 1: 237 | Scene 9: 101 | |
| | Scene 2: 220 | Scene 10: 84 | |

| Scene 3: 203 | Scene 11: 67 |
|--------------|--------------|
| | Scene 12: 50 |
| | Scene 13: 33 |
| Scene 6: 152 | Scene 14: 16 |
| Scene 7: 135 | Scene 15: 0 |

Purchase Order Information

ArtNr. 89453826: 1-channel LED Dimmer, CV, max. input current 4A, 12V-28V DC, Sw&Dim 48V, back box

ArtNr. 86459556: 1-channel LED Dimmer, CV, max. input current 8A, 12V-48V DC, SwitchDim2, back box

ArtNr. 86459572: 1-channel LED Dimmer, CV, max. input current 10A, 12V-48V DC, Sw&Dim, remote ceiling & integration in luminaires

ArtNr. 89453829: 1-channel LED Dimmer, CV, max. input current 16A, 12V-48V DC, Sw&Dim, remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals https://jumitech/produkter

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.

DALI 1Ch LED Dimmer

Datasheet

Control Gear

1-Channel LED Dimmer (CV)

Art. Nr. 86459572-6 (6A)



DALI 1Ch LED Dimmer Control Gear

Overview

- 1 Channel LED Dimmer
- Suitable for constant voltage LEDmodules
- dimming control via DALI or standard switch (SwitchDim-function integrated)
- The output is dimmable from 1% to 100% (upon request 0.1%)
- Supply voltage from 12V to 48V DC
- Configuration via DALI-Cockpit software and DALI USB interface
- The maximum input current must not exceed 6A

Specification, Characteristics

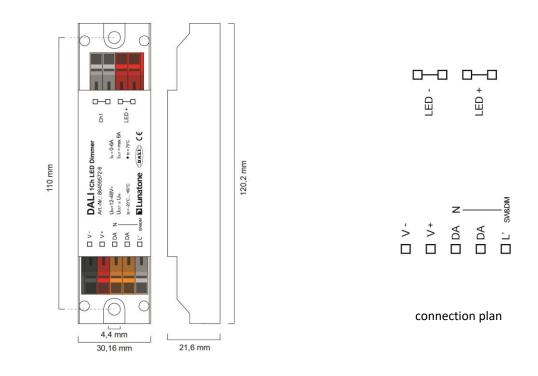
| type | DALI 1Ch LED Dimmer |
|----------------|---------------------|
| article number | 86459572-6 |

electrical data:

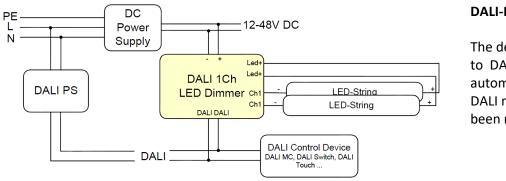
| power supply | 12V- 48VDC |
|----------------------------------|-----------------------|
| maximum input current | 6A |
| maximum output current | 6A |
| control input | DALI / SwitchDim |
| number of DALI addresses | 1 |
| typ. current consumption DALI | 2mA |
| default state after power return | configurable via DALI |

mechanical data:

| ambient temperature | -20°C+60°C |
|------------------------------------|---------------------|
| protection class | IP20 |
| max. connecting wire cross section | 2.5 mm ² |
| geometry (L x W x H) | 120mmx30mmx21mm |



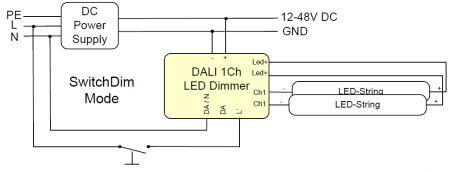
geometry



typical application DALI-Mode

DALI-Mode:

The device switches to DALI-mode automatically after a DALI message has been received.



Prinzipschaltbild SwitchDim 10A/16A

Switch-Dim:

The device is in the Switch-Dim mode after power up.

At types from before June 2015, at which the inputs L' and N are not available, the maximal voltage for SwitchDim (via DALI inputs) is 48VDC!

SwitchDim: Button pressed short (<500ms): On / Off

Button pressed long (>500ms): Dim Up / Down

RECOMMENDATION:

Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

Purchase Information

ArtNr. 86459572-6: 1-Channel LED Dimmer, CV, max. input current 6A, 12V-48V DC, remote ceiling & built in

Additional Information

Datasheets and manuals https://jumitech/produkter

DALI-Cockpit – free configuration tool from Lunatone for DALI systems <u>http://lunatone.at/en/downloads/Lunatone</u> DALI-Cockpit.zip

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The compatibility with other devices must be tested in advance to the installation.