



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

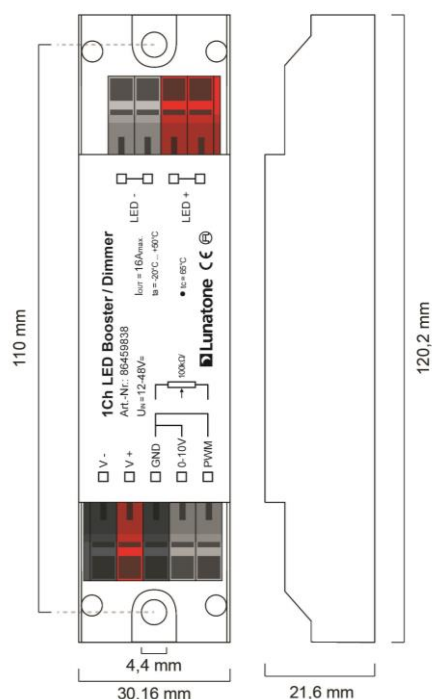
Overview

- 1 channel LED dimmer
- suitable for constant voltage LED-modules
- 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

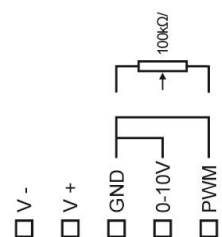
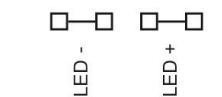
Specifikation, Characteristics

type	1Ch LED Booster Dimmer
article number	86459838
electrical data:	
supply	12VDC-48VDC
maximum input current	16A
control input	PWM (50Hz-1kHz) 100kOhm potentiometer 0-10V active/passive
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

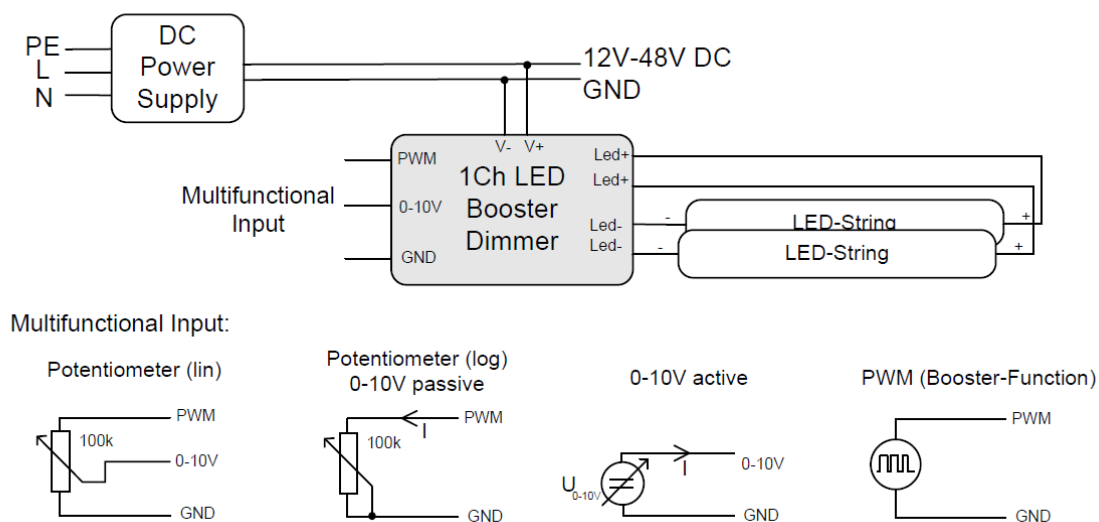
RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.



geometry

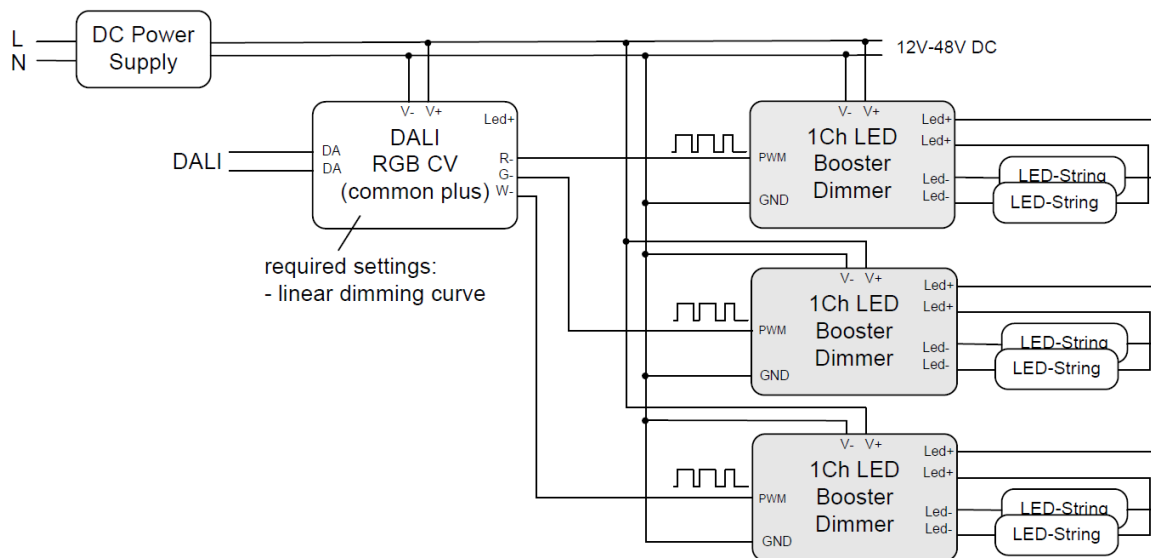


connection diagram

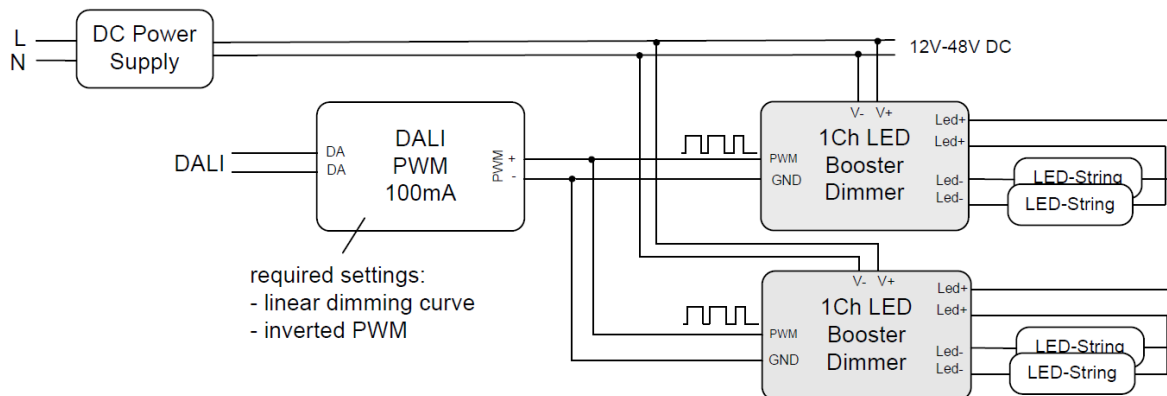


typical structure & control input configurations

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:

Type	Hex Data	Address	Command
DALI16 Special	C106	*	ENABLE DEVICE TYPE 6
DALI16 AppExt	D603EE	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	D603E3	A1	SELECT DIMMING CURVE
DALI16 AppExt	D603E3	A1	SELECT DIMMING CURVE
DALI16 Special	C106	*	ENABLE DEVICE TYPE 6
DALI16 AppExt	D603EE	A1	QUERY DIMMING CURVE
DALI8 Answer	01		= 1 (0x01)

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



Disclaimer

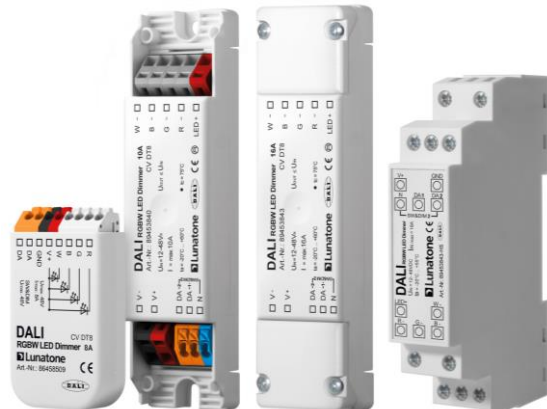
Subject to change. Information provided without guarantee.
The datasheet refers to the current delivery.

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

DALI 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)

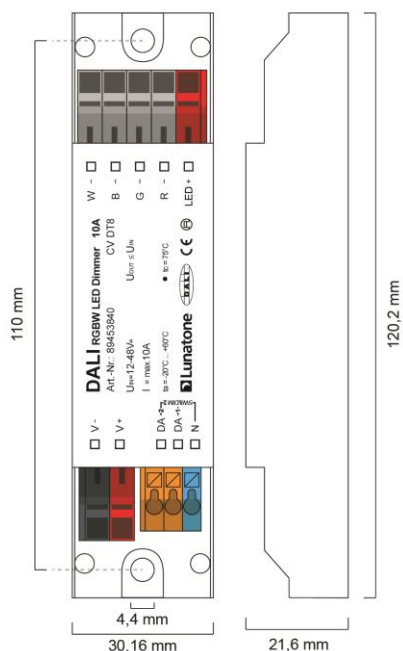
DALI RGBW LED Dimmer CV Control Gear

Overview

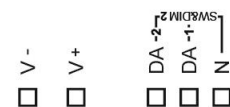
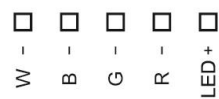
- DALI LED-Dimmer for RGBW colour control
- suitable for constant voltage LED-modules with operating voltages from 12V to 48V
- **Operating Mode DT8:** one DALI-address for the independent control of light level and colour (DALI DT8, Type RGBWAF)
- **Operating Mode Colour&Dim:** control by 2 DALI-addresses, 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

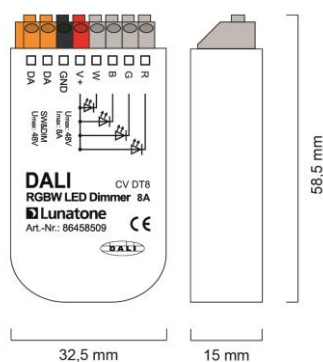
type	DALI RGBW LED Dimmer CV			
article number	86458509	89453840	89453843	89453843-HS
electrical data:				
supply voltage	12VDC-48VDC			
maximum input current linmax	8A	10A	16A	
control input	DALI	DALI SwitchDim2 (mains voltage)		
current consumption DALI	2mA			
number of DALI-addresses	operating mode DT8: 1 operating mode Colour&Dim: 2			
standby power consumption (12V)	~ 120mW			
technical data:				
power on behaviour	configurable: 0%-100% 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&SwDim: 1.5 mm ²		2.5 mm ²
dimensions (LxWxH)	59x33x15 mm	120x30x22 mm		98x17x56 mm
housing/mounting	back box	remote ceiling		dinrail



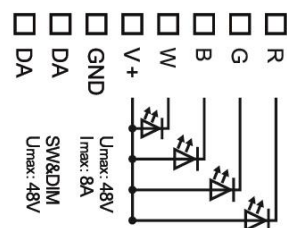
dimensions remote ceiling



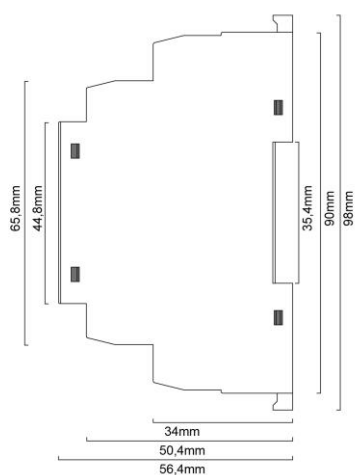
connection plan remote ceiling



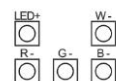
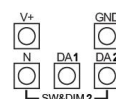
dimensions back box



connection plan back box



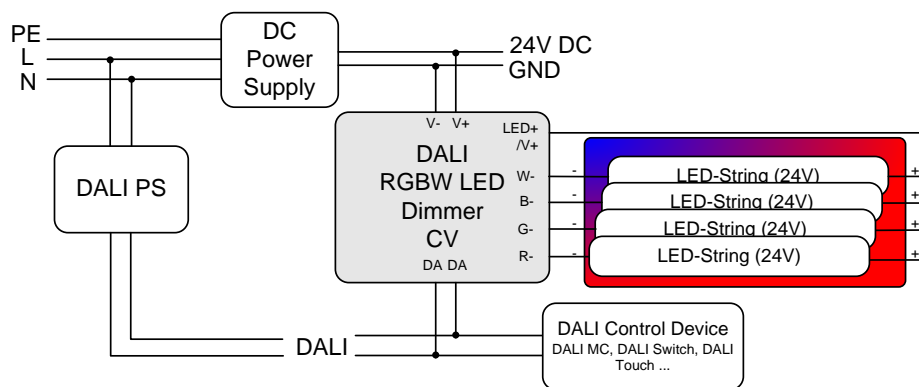
Geometrie Hutschiene



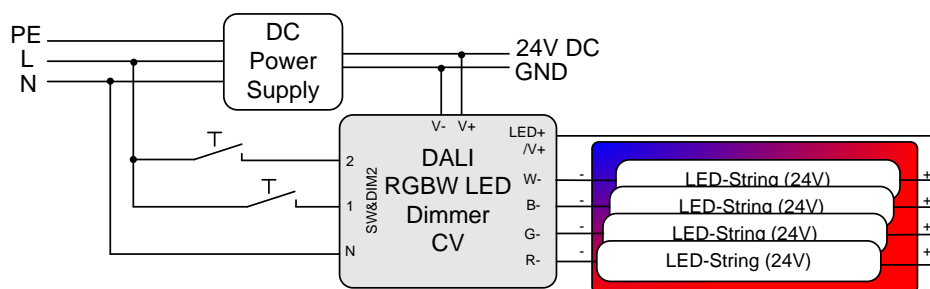
Anschlussplan Hutschiene

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

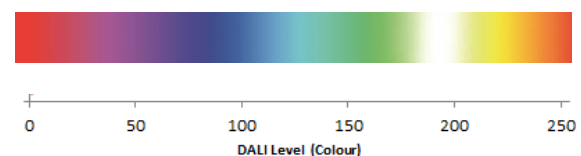
used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the level and vice versa. For each channel only 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 Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

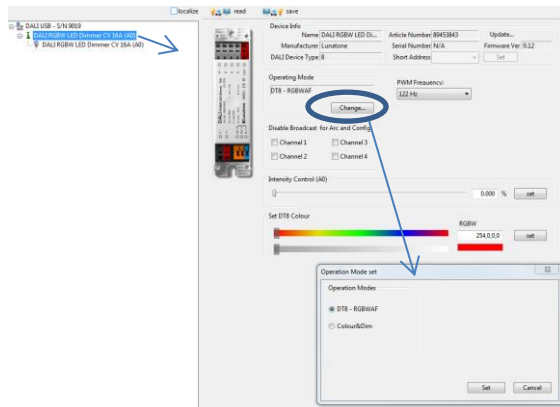
DALI-address 2, SwD2: colour



Selection of operating mode

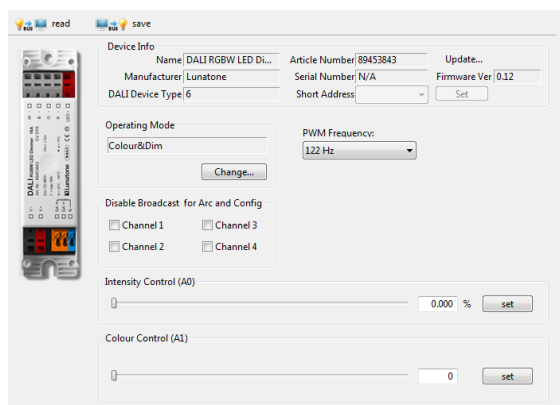
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-RGBWAF:



In addition, on the same page the PWM-frequency 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:



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.

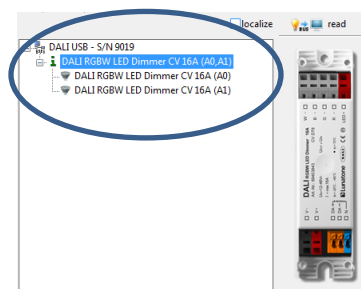
Operating Mode:

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

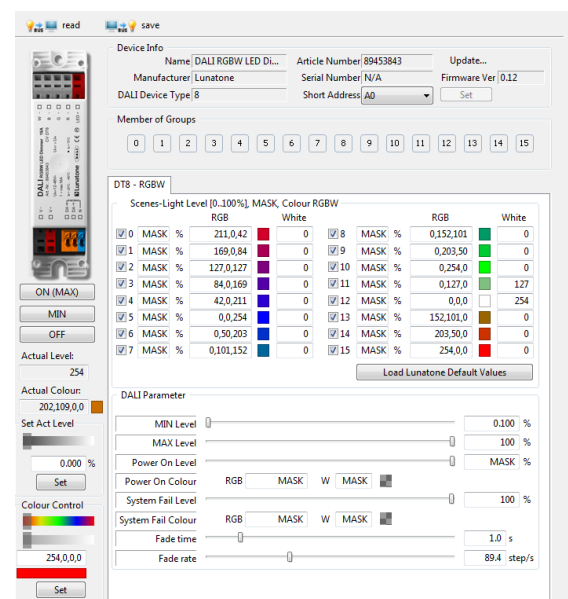
Additional Settings

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

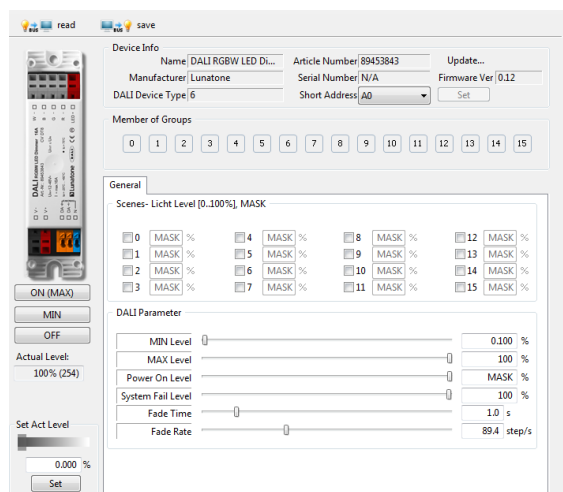
Component Tree:



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



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



















For each address the group membership can be set as well as scene values and DALI-parameters. 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-frequency	122Hz
Groups before initial	G0 (or G0 and G1 in operating)

addressing:	mode Colour&Dim)					
Predefined Scene Values:				RGB	White	
	<input checked="" type="checkbox"/> 0	MASK	%	211,0,42		0
	<input checked="" type="checkbox"/> 1	MASK	%	169,0,84		0
	<input checked="" type="checkbox"/> 2	MASK	%	127,0,127		0
	<input checked="" type="checkbox"/> 3	MASK	%	84,0,169		0
	<input checked="" type="checkbox"/> 4	MASK	%	42,0,211		0
	<input checked="" type="checkbox"/> 5	MASK	%	0,0,254		0
	<input checked="" type="checkbox"/> 6	MASK	%	0,50,203		0
	<input checked="" type="checkbox"/> 7	MASK	%	0,101,152		0
	<input checked="" type="checkbox"/> 8	MASK	%	0,152,101		0
	<input checked="" type="checkbox"/> 9	MASK	%	0,203,50		0
	<input checked="" type="checkbox"/> 10	MASK	%	0,254,0		0
	<input checked="" type="checkbox"/> 11	MASK	%	0,127,0		127
	<input checked="" type="checkbox"/> 12	MASK	%	0,0,0		254
	<input checked="" type="checkbox"/> 13	MASK	%	152,101,0		0
	<input checked="" type="checkbox"/> 14	MASK	%	203,50,0		0
	<input checked="" type="checkbox"/> 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

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



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.

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)

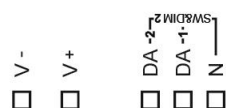
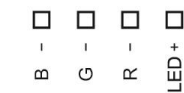
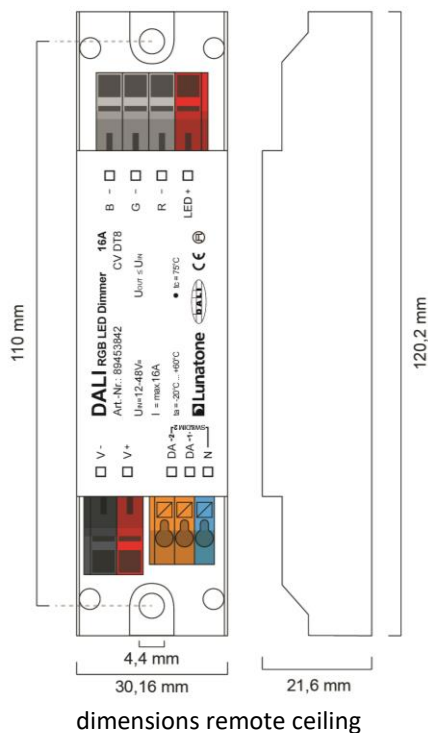
DALI RGB LED Dimmer CV Control Gear

Overview

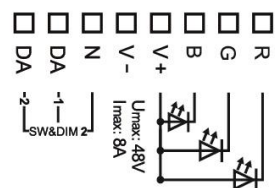
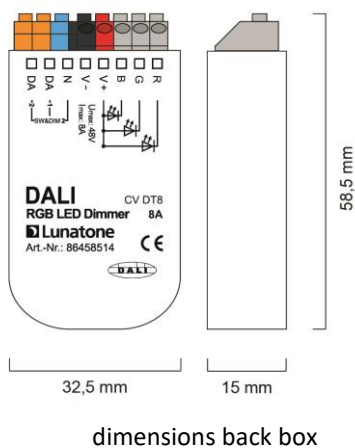
- DALI LED-Dimmer for RGB colour control
- suitable for constant voltage LED-modules with operating voltages from 12V to 48V
- **Operating Mode DT8:** one DALI-address for the independent control of light level and colour (DALI DT8, Type RGBWAF)
- **Operating Mode Colour&Dim:** control by 2 DALI-addresses, 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	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 DT8: 1 operating mode Colour&Dim: 2			
standby power consumption (12V)	~ 120mW			
technical 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 / DALI &SwDim: 1.5 mm ²	
dimensions (LxWxH)	59x33x15 mm		120x30x22 mm	
housing/mounting	back box		remote ceiling	



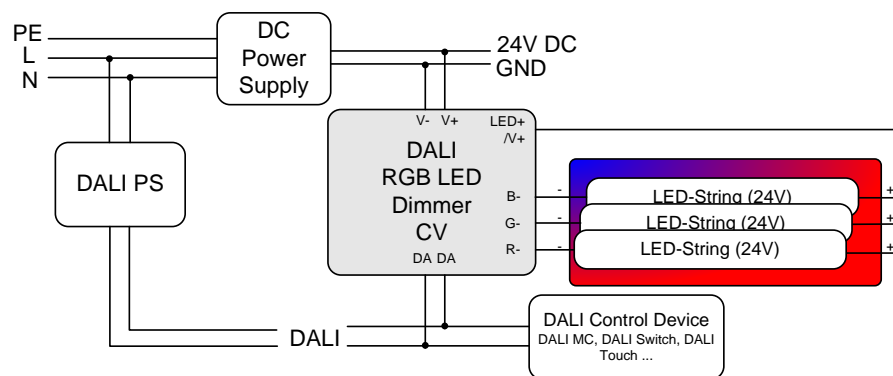
connection plan remote ceiling



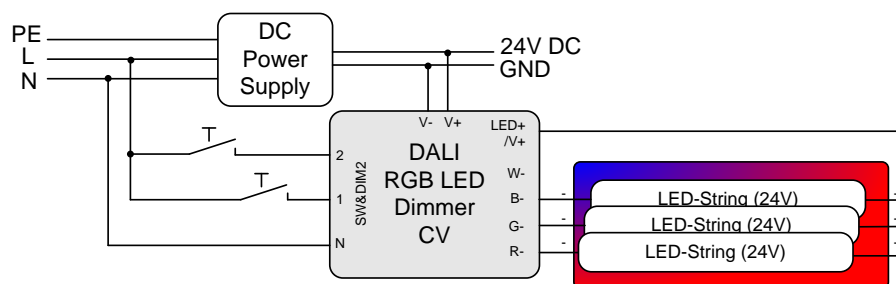
connection plan back box

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:

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

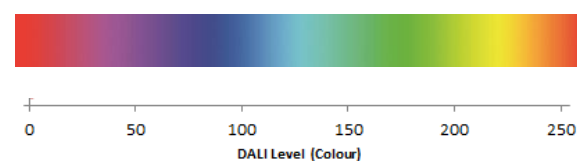
used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the level and vice versa. For each channel only 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 Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

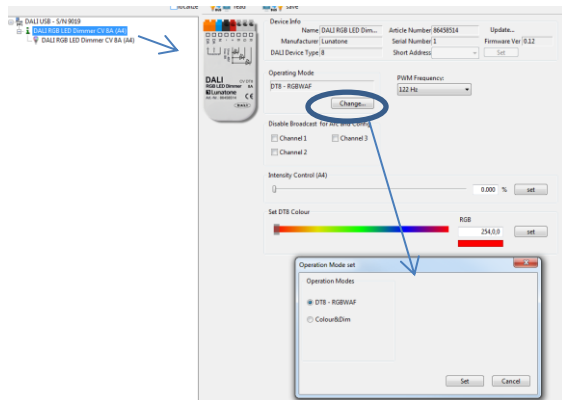
DALI-address 2, SwD2: colour



Selection of operating mode

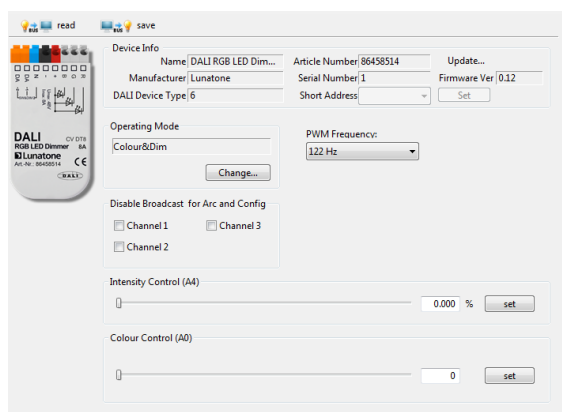
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-RGBWAF:



In addition, on the same page the PWM-frequency 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:



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.

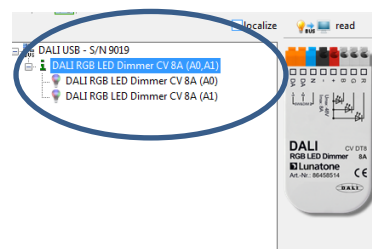
Operating Mode:

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

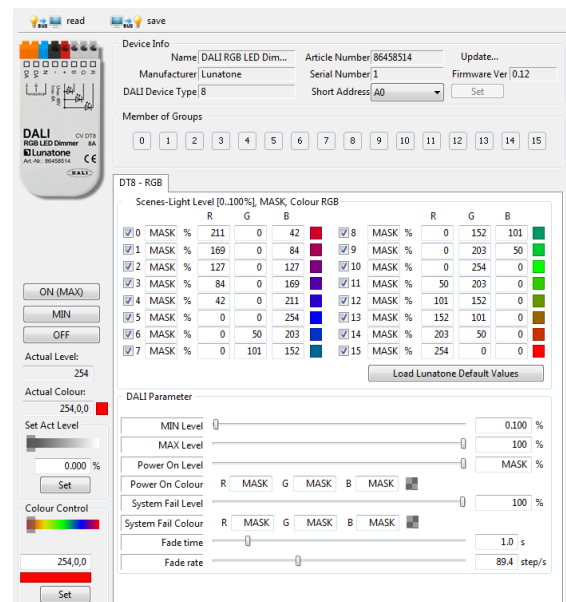
Additional Settings

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

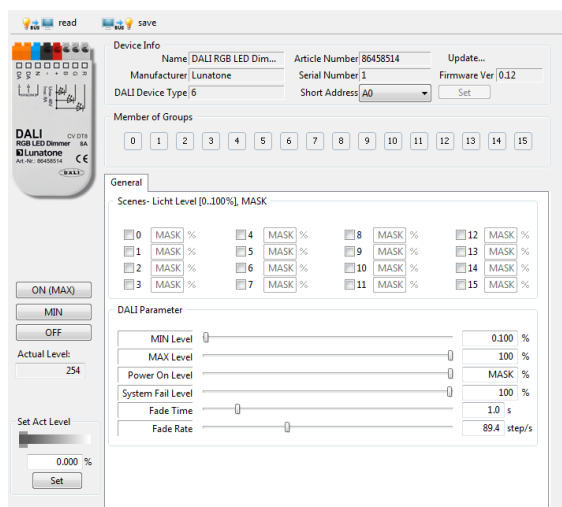
Component Tree:



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



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



For each address the group membership can be set as well as scene values and DALI-parameters. 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-frequency	122Hz
Groups before initial	G0 (or G0 and G1 in operating

addressing:	mode Colour&Dim)
Predefined Scene Values:	R G B
<input checked="" type="checkbox"/> 0 MASK %	211 0 42
<input checked="" type="checkbox"/> 1 MASK %	169 0 84
<input checked="" type="checkbox"/> 2 MASK %	127 0 127
<input checked="" type="checkbox"/> 3 MASK %	84 0 169
<input checked="" type="checkbox"/> 4 MASK %	42 0 211
<input checked="" type="checkbox"/> 5 MASK %	0 0 254
<input checked="" type="checkbox"/> 6 MASK %	0 50 203
<input checked="" type="checkbox"/> 7 MASK %	0 101 152
<input checked="" type="checkbox"/> 8 MASK %	0 152 101
<input checked="" type="checkbox"/> 9 MASK %	0 203 50
<input checked="" type="checkbox"/> 10 MASK %	0 254 0
<input checked="" type="checkbox"/> 11 MASK %	50 203 0
<input checked="" type="checkbox"/> 12 MASK %	101 152 0
<input checked="" type="checkbox"/> 13 MASK %	152 101 0
<input checked="" type="checkbox"/> 14 MASK %	203 50 0
<input checked="" type="checkbox"/> 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

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



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.

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

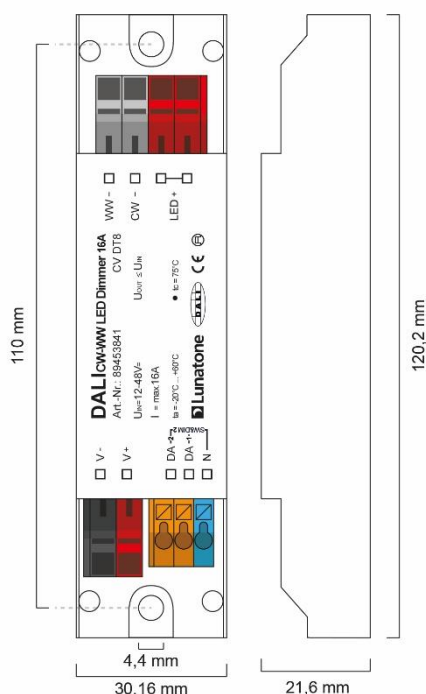
Overview

- DALI LED-Dimmer for the control of tunable white luminaires
- suitable for constant voltage LED-modules with operating voltages from 12V to 48V
- **Operating Mode DT8:** one DALI-address 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

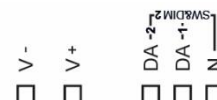
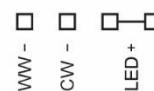
Specification, Characteristics

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	16A
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			

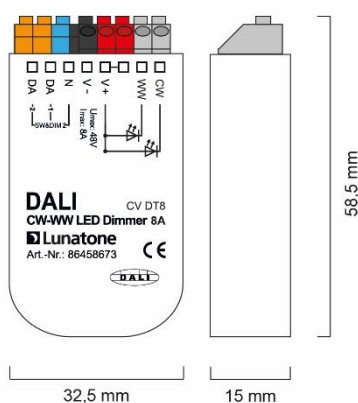
type	DALI CW-WW Led Dimmer CV			
article number	89453836	86458673	89453838	89453841
technical data:				
power on behaviour	configurable via DALI: 0%-100% or last value			
ambient temperature	-20°C bis +60°C			
expected lifetime (at Tc<=75°C)	>100000h			
protection class	IP20			
max. connecting wire cross section	1.5 mm ²		2.5 mm ² / DALI & SwDim: 1.5 mm ²	
dimensions (LxWxH)	40mm x 28mm x 15mm	59mm x 33mm x 15mm	120mmx30mmx22mm	
housing/mounting	back box		remote ceiling	



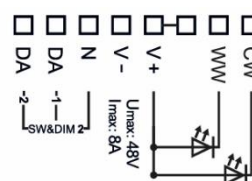
dimensions remote ceiling



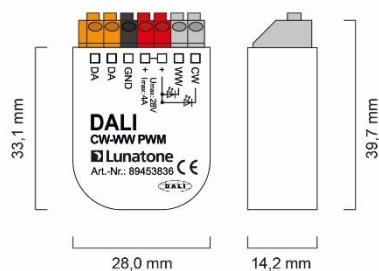
connection plan remote ceiling



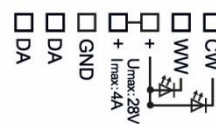
dimensions back box 8A



connection plan back box 8A



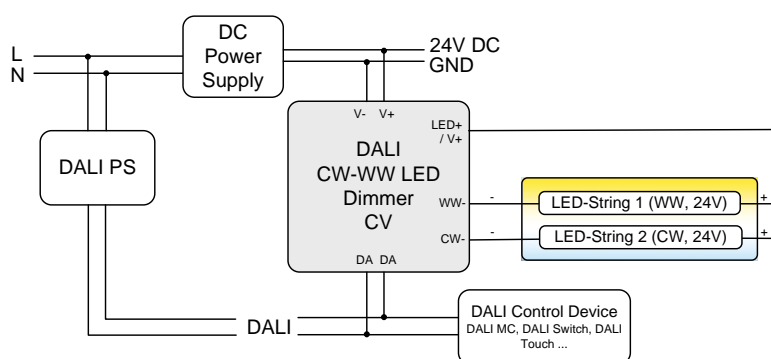
dimensions back box 4A



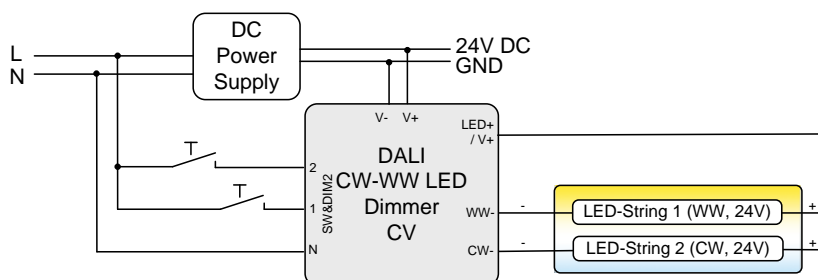
connection plan back box 4A

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

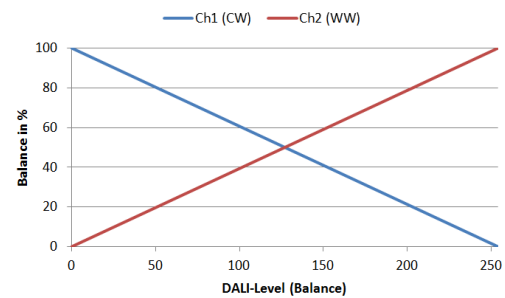
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

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



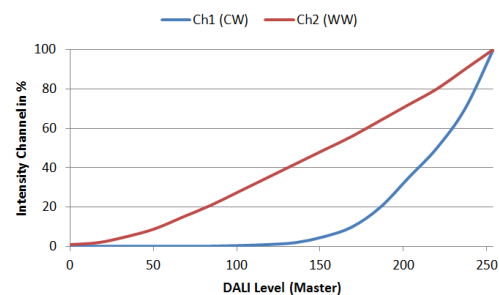
Dim2Warm

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

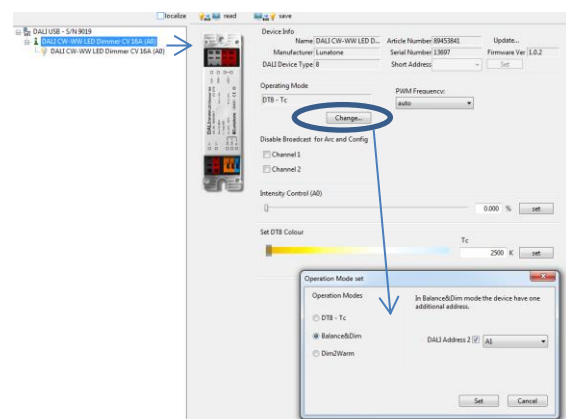


SwD2: scene selector

Selection of operating mode

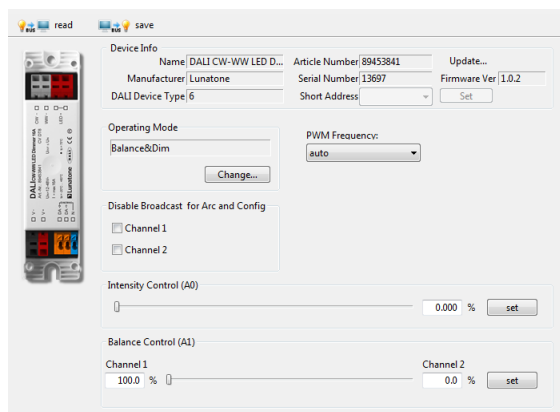
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-Tc:

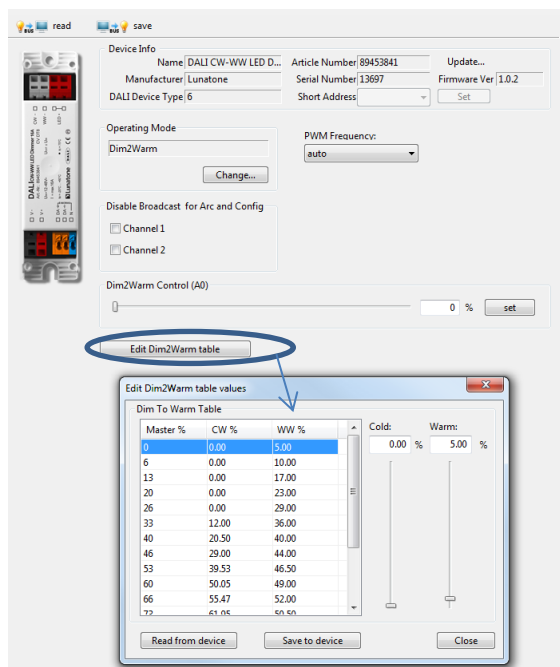


In addition, on the same page the PWM-frequency can be selected and basic control elements for testing each operating modes are available (DT8: slider for level and colour temperature, Balance&Dim: slider for level and balance, Dim2Warm: slider for input value adaption and Edit-Function for the Dim2Warm-table).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

Operating Mode Balance&Dim:



Operating Mode Dim2Warm:



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.

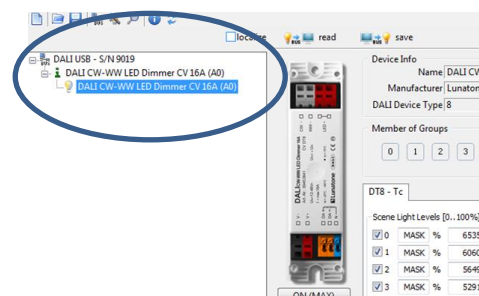
Operating Mode:

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

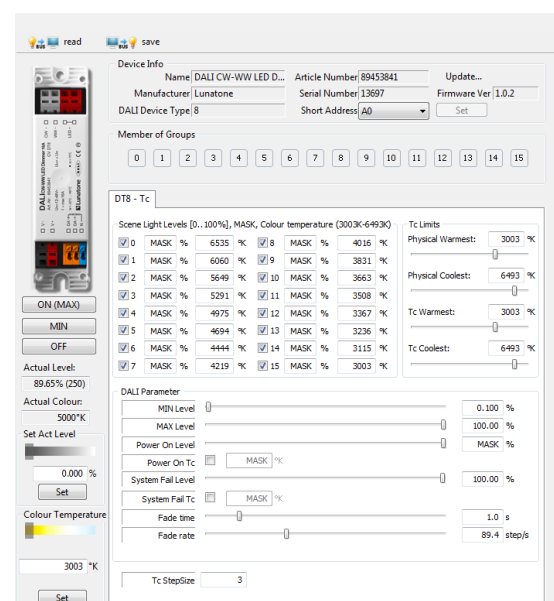
Additional Settings

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

Component Tree:



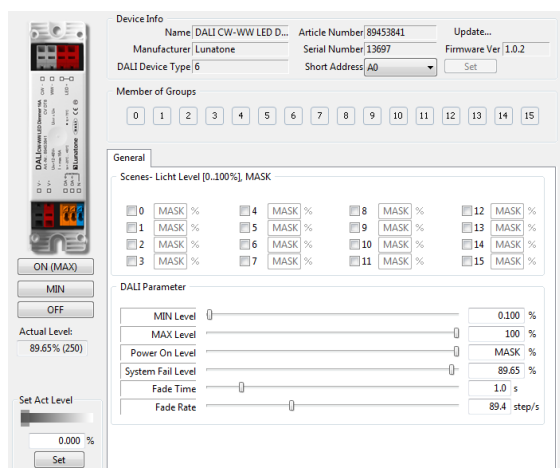
Settings in the operating mode DT8-Tc (displayed parameters are the factory default values):



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:



For each address the group membership can be set as well as scene values and DALI-parameters. 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 Level	MASK (last value)																																																																																																						
Fade Time	2 (1s)																																																																																																						
Fade Rate	5 (89.4 steps/s)																																																																																																						
Tc-Stepsize	3 increments																																																																																																						
PWM-frequency	122Hz																																																																																																						
Groups before intial addressing:	G0 (or G0 and G1 in operating mode Balance&Dim)																																																																																																						
Predefined Scene Values:	<table><tr><td><input checked="" type="checkbox"/></td><td>0</td><td>MASK</td><td>%</td><td><input type="text" value="6535"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>1</td><td>MASK</td><td>%</td><td><input type="text" value="6060"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>2</td><td>MASK</td><td>%</td><td><input type="text" value="5649"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>3</td><td>MASK</td><td>%</td><td><input type="text" value="5291"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>4</td><td>MASK</td><td>%</td><td><input type="text" value="4975"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>5</td><td>MASK</td><td>%</td><td><input type="text" value="4694"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>6</td><td>MASK</td><td>%</td><td><input type="text" value="4444"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>7</td><td>MASK</td><td>%</td><td><input type="text" value="4219"/></td><td>°K</td></tr><tr><td colspan="6"> </td></tr><tr><td><input checked="" type="checkbox"/></td><td>8</td><td>MASK</td><td>%</td><td><input type="text" value="4016"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>9</td><td>MASK</td><td>%</td><td><input type="text" value="3831"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>10</td><td>MASK</td><td>%</td><td><input type="text" value="3663"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>11</td><td>MASK</td><td>%</td><td><input type="text" value="3508"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>12</td><td>MASK</td><td>%</td><td><input type="text" value="3367"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>13</td><td>MASK</td><td>%</td><td><input type="text" value="3236"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>14</td><td>MASK</td><td>%</td><td><input type="text" value="3115"/></td><td>°K</td></tr><tr><td><input checked="" type="checkbox"/></td><td>15</td><td>MASK</td><td>%</td><td><input type="text" value="3003"/></td><td>°K</td></tr></table>	<input checked="" type="checkbox"/>	0	MASK	%	<input type="text" value="6535"/>	°K	<input checked="" type="checkbox"/>	1	MASK	%	<input type="text" value="6060"/>	°K	<input checked="" type="checkbox"/>	2	MASK	%	<input type="text" value="5649"/>	°K	<input checked="" type="checkbox"/>	3	MASK	%	<input type="text" value="5291"/>	°K	<input checked="" type="checkbox"/>	4	MASK	%	<input type="text" value="4975"/>	°K	<input checked="" type="checkbox"/>	5	MASK	%	<input type="text" value="4694"/>	°K	<input checked="" type="checkbox"/>	6	MASK	%	<input type="text" value="4444"/>	°K	<input checked="" type="checkbox"/>	7	MASK	%	<input type="text" value="4219"/>	°K							<input checked="" type="checkbox"/>	8	MASK	%	<input type="text" value="4016"/>	°K	<input checked="" type="checkbox"/>	9	MASK	%	<input type="text" value="3831"/>	°K	<input checked="" type="checkbox"/>	10	MASK	%	<input type="text" value="3663"/>	°K	<input checked="" type="checkbox"/>	11	MASK	%	<input type="text" value="3508"/>	°K	<input checked="" type="checkbox"/>	12	MASK	%	<input type="text" value="3367"/>	°K	<input checked="" type="checkbox"/>	13	MASK	%	<input type="text" value="3236"/>	°K	<input checked="" type="checkbox"/>	14	MASK	%	<input type="text" value="3115"/>	°K	<input checked="" type="checkbox"/>	15	MASK	%	<input type="text" value="3003"/>	°K
<input checked="" type="checkbox"/>	0	MASK	%	<input type="text" value="6535"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	1	MASK	%	<input type="text" value="6060"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	2	MASK	%	<input type="text" value="5649"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	3	MASK	%	<input type="text" value="5291"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	4	MASK	%	<input type="text" value="4975"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	5	MASK	%	<input type="text" value="4694"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	6	MASK	%	<input type="text" value="4444"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	7	MASK	%	<input type="text" value="4219"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	8	MASK	%	<input type="text" value="4016"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	9	MASK	%	<input type="text" value="3831"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	10	MASK	%	<input type="text" value="3663"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	11	MASK	%	<input type="text" value="3508"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	12	MASK	%	<input type="text" value="3367"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	13	MASK	%	<input type="text" value="3236"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	14	MASK	%	<input type="text" value="3115"/>	°K																																																																																																		
<input checked="" type="checkbox"/>	15	MASK	%	<input type="text" value="3003"/>	°K																																																																																																		

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

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



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 4Ch RC

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 addresses, 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

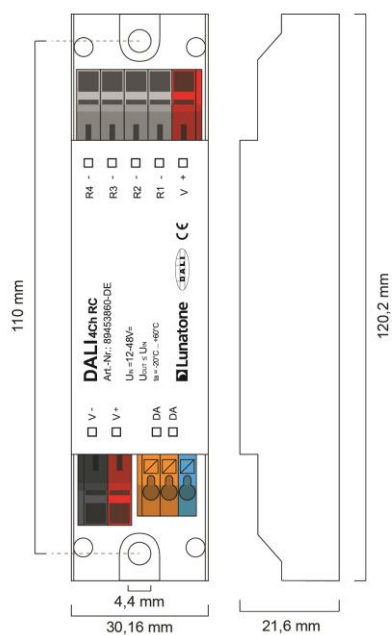
type	DALI 4Ch RC	
article number	89453860-DE	89453860-HS

electrical data:

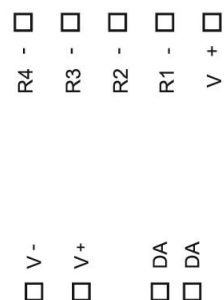
supply voltage	12VDC-48VDC (=relay coil voltage)	
maximum input current	8A	
max. output current per channel	2A	
control input	DALI	
number of DALI addresses	4	
typ. current consumption DALI	2mA	

technical data:

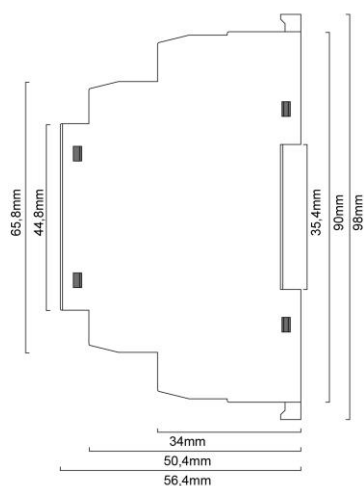
power on behaviour	programmable	
storing/transportation temperature	-20°C...+75°C	
operational ambient temperature	-20°C...+60°C	
protection class	IP20	
max. connecting wire cross section	2.5 mm ²	
geometry	120mm x 30mm x 22mm	98mm x 17.5mm x 56mm
type of housing	remote ceiling	din rail



geometry remote ceiling



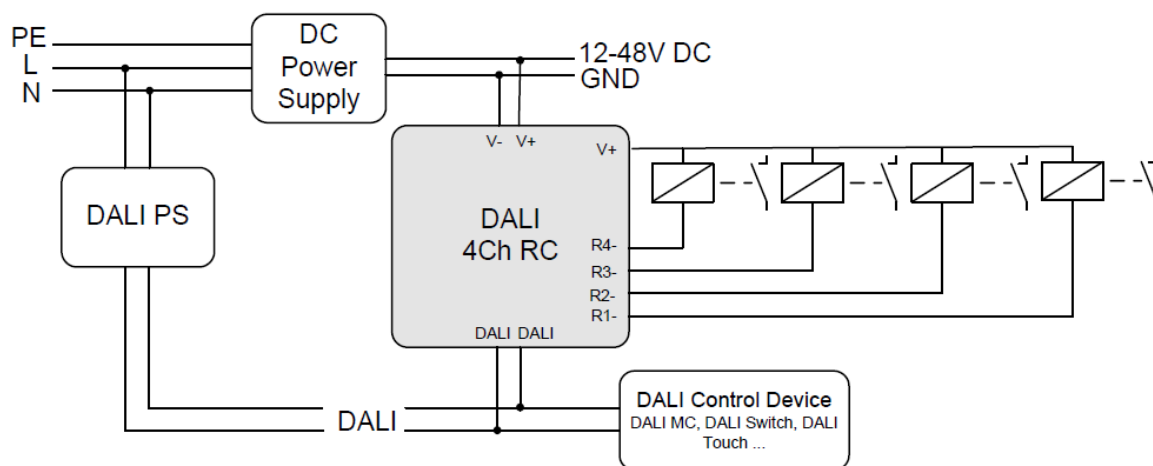
connection plan remote ceiling



geometry din rail



connection plan din rail



typical structure

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.

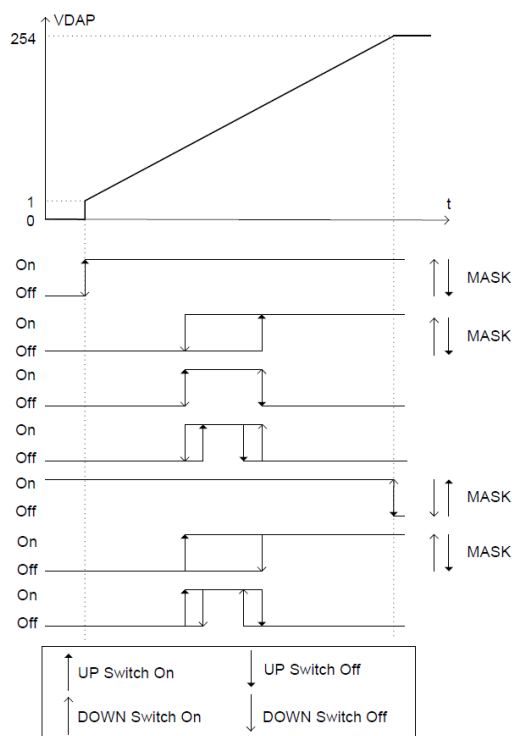
The virtual dim level (VDAP) is like the dim level of DALI-ballasts and is therefore limited by MINLEVEL and MAXLEVEL and influenced by fade-time and fade-rate.

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	$VDAP \geq \text{UP SwitchOn Threshold}$	ON
UP	$VDAP \geq \text{UP SwitchOff Threshold}$	OFF
DOWN	$VDAP \leq \text{DOWN SwitchOn Threshold}$	ON
DOWN	$VDAP \leq \text{DOWN SwitchOff Threshold}$	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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk

JUMiTECH



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)

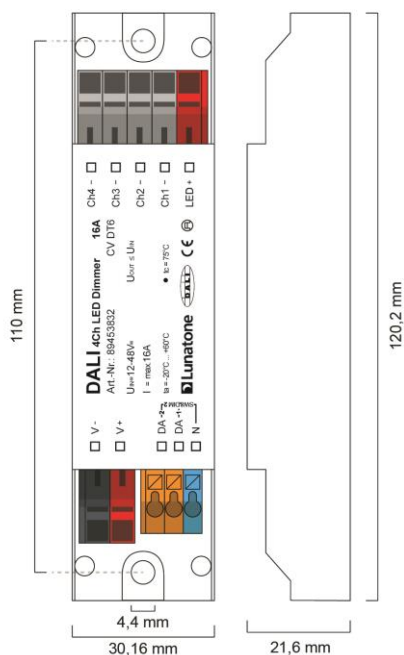
DALI 4Ch LED Dimmer CV Control Gear

Overview

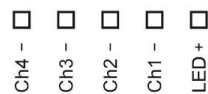
- 4 channel DALI LED-Dimmer
- suitable for constant voltage LED-modules with operating voltages from 12V to 48V
- **Operating Mode DT6:** individual channel control via 4 DALI addresses
- **Operating Mode Colour&Dim:** control by 2 DALI-addresses, one for adjusting the light level and one for adjusting 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)
- 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

Specification, Characteristics

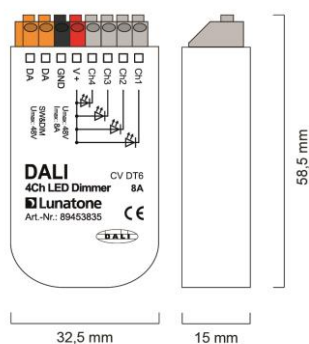
type	DALI 4Ch LED Dimmer			
article number	89453835	86459560	89453832	89453832-HS
electrical data:				
supply voltage	12VDC-48VDC			
maximum input current linmax	8A	10A	16A	16A
control input	DALI	DALI SwitchDim2 (mains voltage)		
current consumption DALI	2mA			
number of DALI-addresses	operating mode DT6: 4 operating mode Colour&Dim: 2			
standby power consumption (12V)	~ 120mW			
technical data:				
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 / DALI&SwD: 1.5 mm ²		2.5 mm ²
dimensions (LxWxH)	59x33x15 mm	120x30x22 mm		98x17x56 mm
housing/mounting	back box	remote ceiling		dinrail



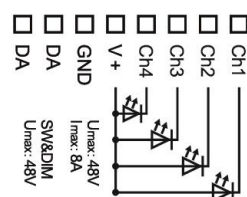
dimensions remote ceiling



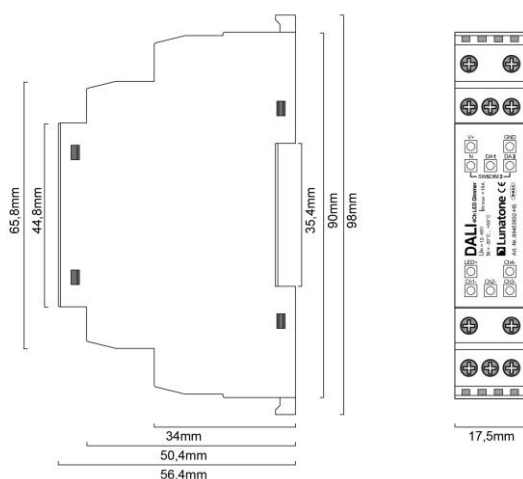
connection plan remote ceiling



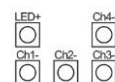
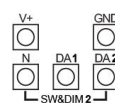
dimensions back box



connection plan back box



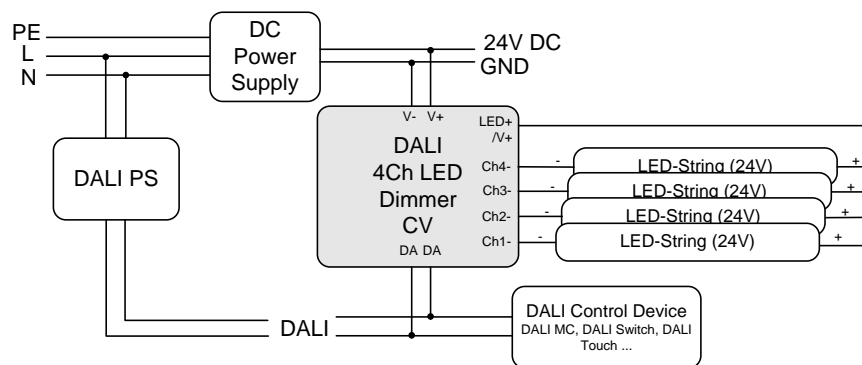
dimensions dinrail



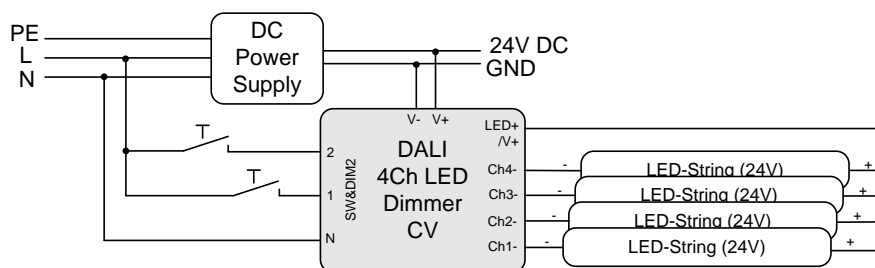
connection plan dinrail

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:

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

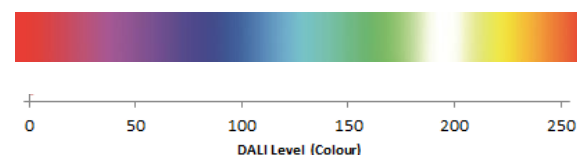
This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the light level and vice versa. For each channel only 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 Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

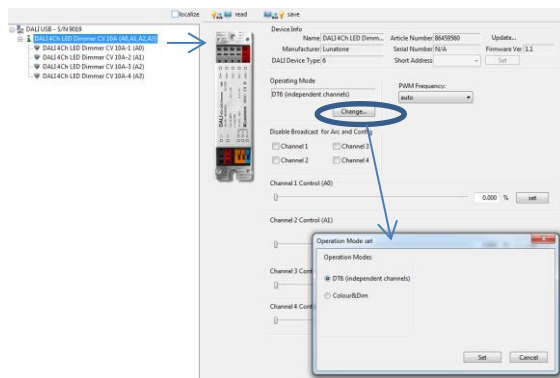
DALI-address 2, SwD2: colour



Selection of operating mode

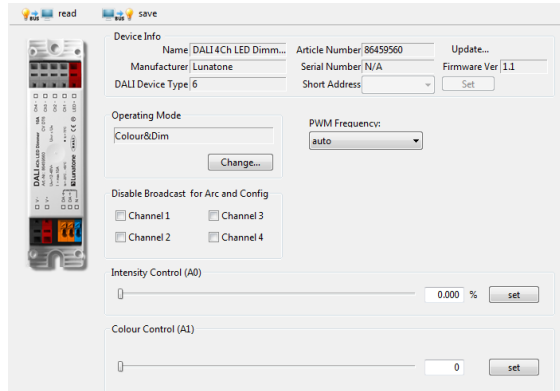
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT6:



In addition, on the same page the PWM-frequency 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.

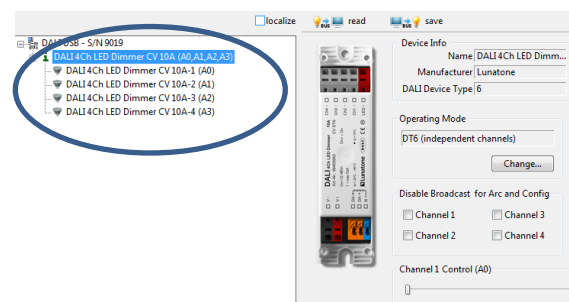
Operating Mode:

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

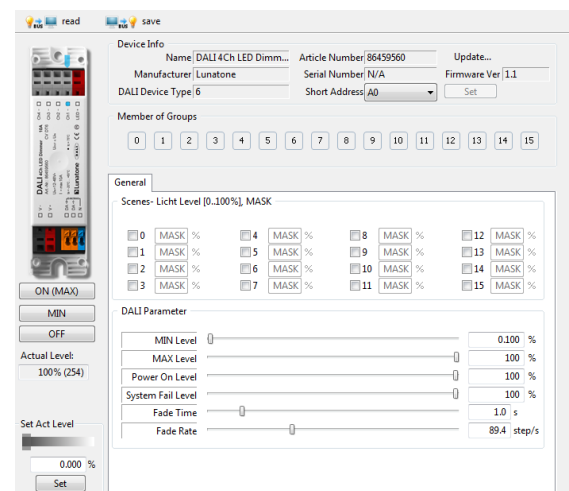
Additional Settings

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 DALI-parameters. 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 SwD2: scene selector				
Min Level	0.1%				
PowerOn Level	MASK (last value)				
Fade Time	2 (1s)				
Fade Rate	5 (89.4 steps/s)				
PWM-frequency	122Hz				
Groups before intial addressing:	G0 – channel1 G1 – channel2 G2 – channel3 G3 – channel4				
predefined scene values:	Scene	Ch1	Ch2	Ch3	Ch4
	0	100%	0%	0%	0%
	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%	100%	0%	0%
	9	0%	100%	100%	0%
	10	100%	0%	100%	100%
	11	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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk

JUMITECH



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 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)

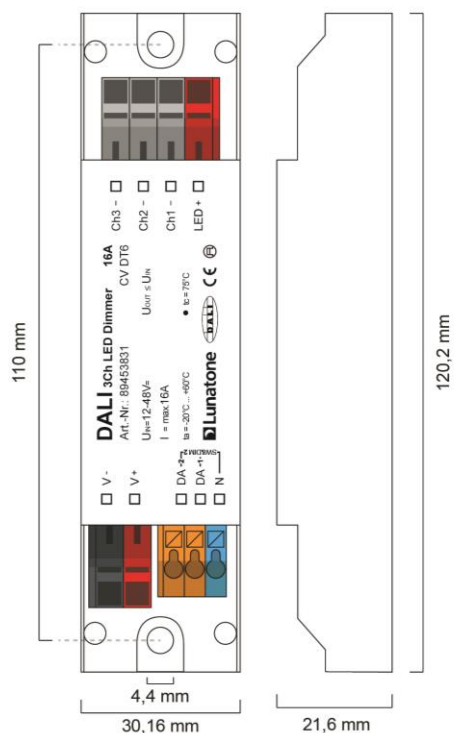
DALI 3Ch LED Dimmer CV Control Gear

Overview

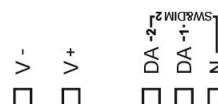
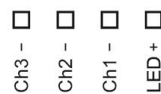
- 3 channel DALI LED-Dimmer
- suitable for constant voltage LED-modules with operating voltages from 12V to 48V
- **Operating Mode DT6:** individual channel control via 3 DALI addresses
- **Operating Mode Colour&Dim:** control by 2 DALI-addresses, one for adjusting the light level and one for adjusting 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)
- 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

Specification, Characteristics

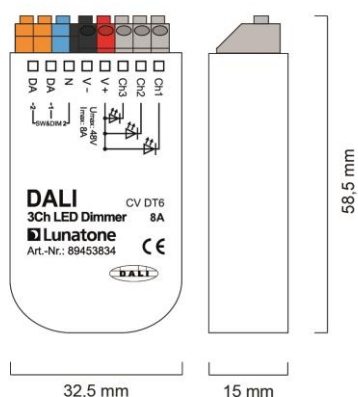
type	DALI 3Ch LED Dimmer			
article number	89453828	89453834	89459571	89453831
electrical data:				
supply voltage	12VDC-48VDC			
maximum input current I _{inmax}	4A	8A	10A	16A
control input	DALI SwitchDim2 (mains voltage)			
current consumption DALI	2mA			
number of DALI-addresses	operating mode DT6: 3 operating mode Colour&Dim: 2			
standby power consumption (12V)	~ 120mW			
technical data:				
power on behaviour	configurable: 0%-100% or last value			
ambient temperature	-20°C to +60°C			
expected lifetime (at T _c ≤75°C)	>100000h			
protection class	IP20			
max. connecting wire cross section	1.5 mm ²		2.5 mm ² / DALI&SwD: 1.5 mm ²	
dimensions (LxWxH)	59x33x15 mm		120x30x22 mm	
housing/mounting	back box		remote ceiling	



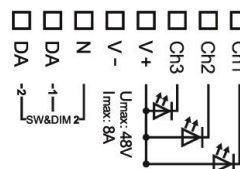
dimensions remote ceiling



connection plan remote ceiling



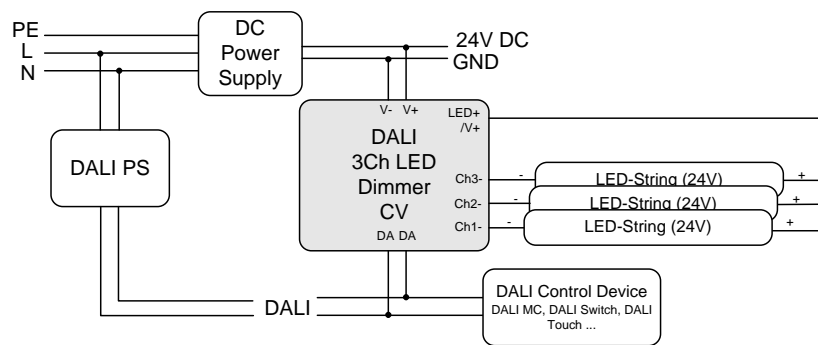
dimensions back box



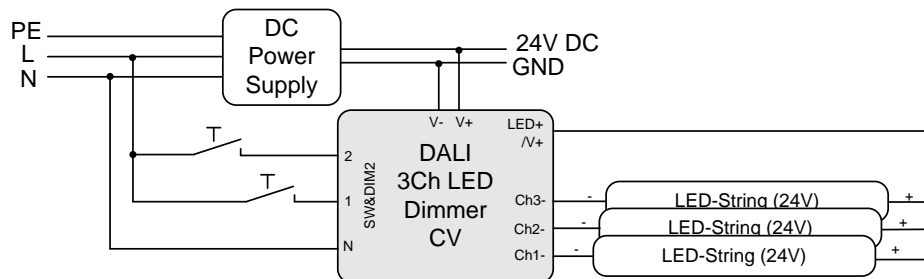
connection plan back box

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

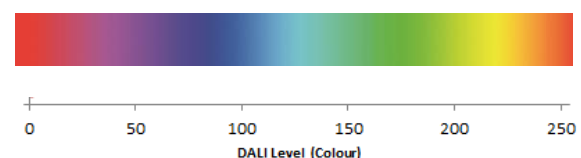
This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

The Colour&Dim mode allows colour adjustments without affecting the light level and vice versa. For each channel only 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 Colour&Dim mode provides an alternative to the DT8-RGBWAF mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

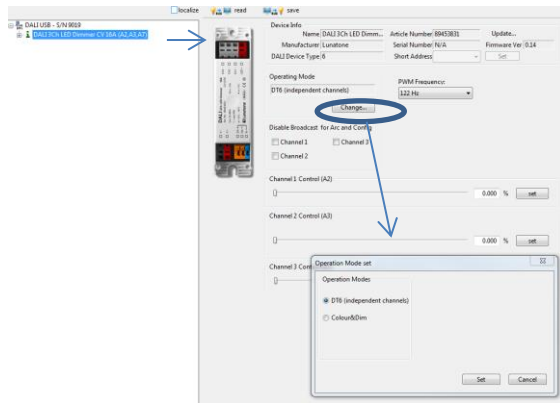
DALI-address 2, SwD2: colour



Selection of operating mode

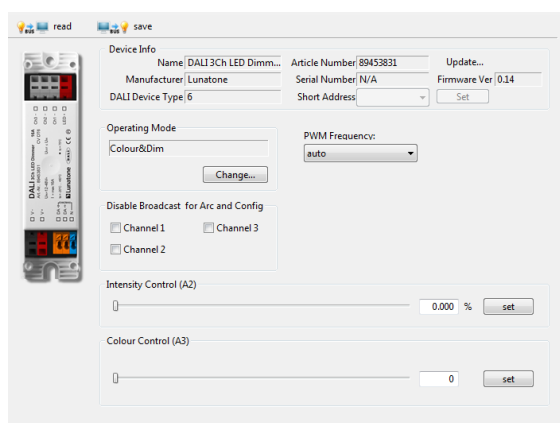
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT6:



In addition, on the same page the PWM-frequency 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:



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.

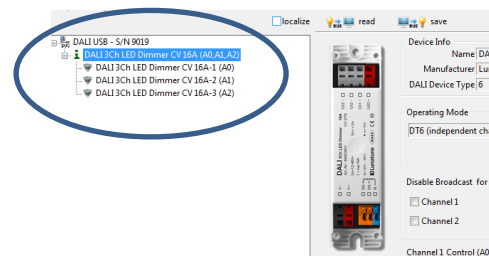
Operating Mode:

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

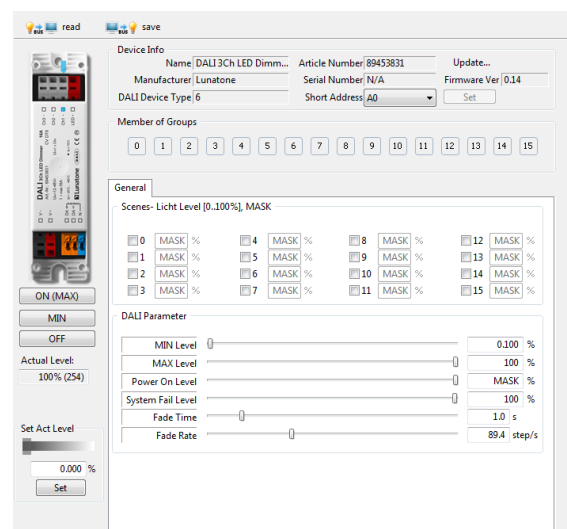
Additional Settings

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 DALI-parameters. 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 2	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-frequency	122Hz			
Groups before initial addressing:	G0 – channel1 G1 – channel2 G2 – channel3			
predefined scene values	Scene	Ch1	Ch2	Ch3
	0, 8	100 %	0%	0%
	1, 9	0%	100 %	0%
	2, 10	0%	0%	100 %
	3, 11	0%	100 %	100 %
	4, 12	100 %	0%	100 %
	5, 13	100 %	100 %	0%
	6, 14	100 %	100 %	100 %
	7, 15	0%	0%	0%

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

Purchase Order Information

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



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)

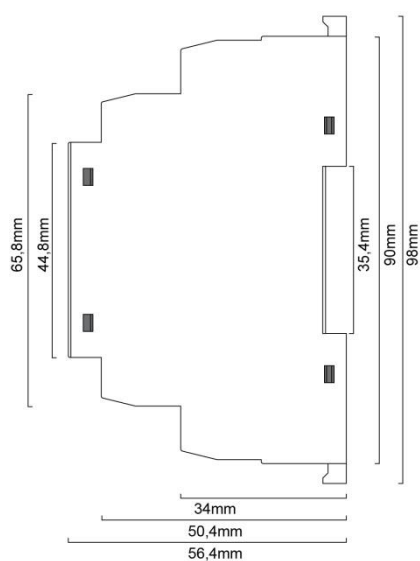
DALI 2xCW-WW LED-Dimmer Control Gear

Overview

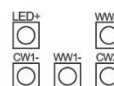
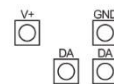
- Device with 2 DALI Tunable White LED-Dimmer
- Suitable for constant voltage LED-modules with 12V to 48V
- 2 DALI addresses (Device Type 8, Colour Type Tc)
- Each DT8-Tc address provides independent control of light level and colour temperature
- dimming range 1%-100%
- PWM-frequency 488Hz
- suitable 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, Characteristics

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 addresses	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 $T_c \leq 75^\circ\text{C}$)	>10 years
protection class	IP20
max. connecting wire crosssection	2.5 mm ²
dimensions (LxWxH)	98mm x 17.5mm x 56mm
mounting/housing	dinrail

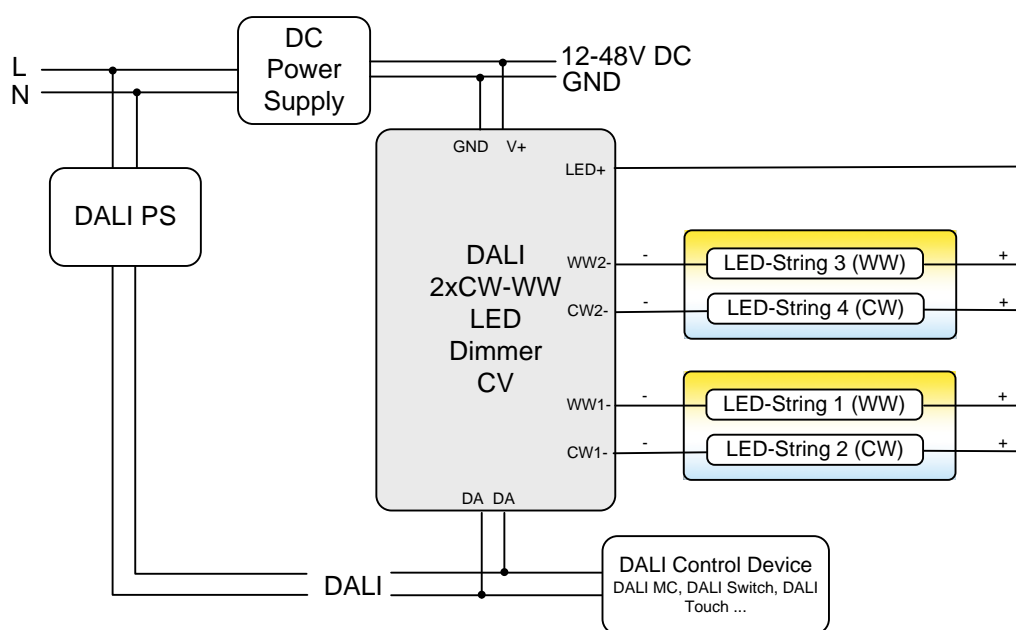


dimensions



connection plan

Application DALI:

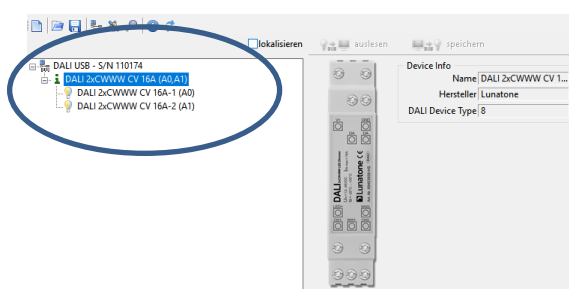


Settings

The device provides 2 Tunable White LED-dimmers. 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):

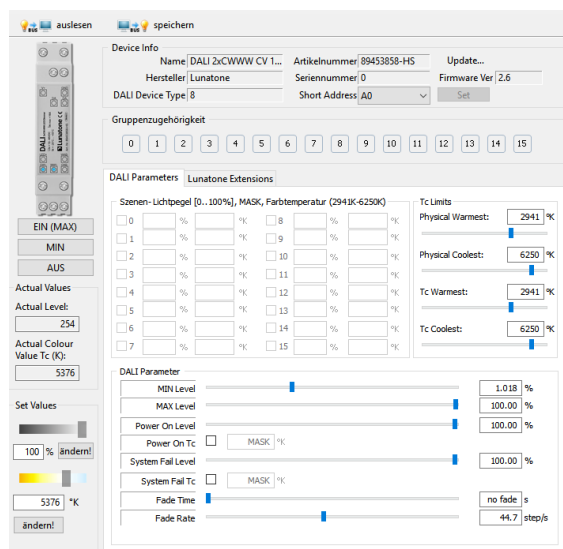
Min Level	1%
PowerOn Level	MASK (last value)
Fade Time	0 (0s)
Fade Rate	7 (89.4 steps/s)
Tc-Range	2940K-6250K
Tc-Stepsize	1 increment

Purchase Information

Art.Nr. 89453858-HS:

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

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



Beside the DT8 Tc standard settings, the Tc-stepsizes 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

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



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

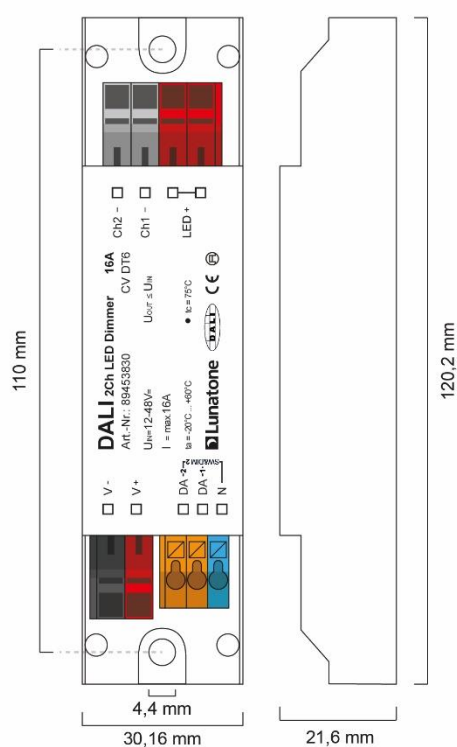
Overview

- 2 channel DALI LED-Dimmer
- suitable for constant voltage LED-modules 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

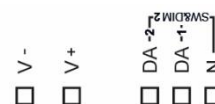
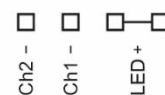
Specification, Characteristics

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 SwitchDim2 (mains voltage)		
current consumption DALI	2mA			
number of DALI-addresses	operating mode Dim2Warm: 1 operating mode DT6, Balance&Dim: 2			
standby power consumption (12V)	120 mW			

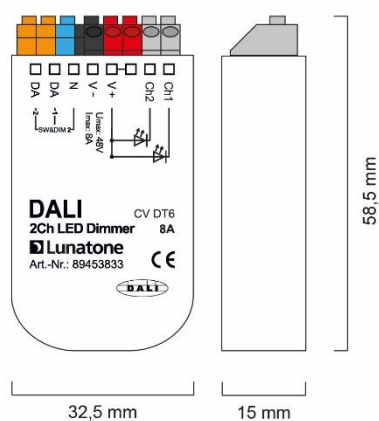
type	DALI 2Ch Led Dimmer CV			
article number	89453827	89453833	86459561	89453830
technical data:				
power on behaviour	configurable via DALI: 0%-100% or last value			
ambient temperature	-20°C to +60°C			
expected lifetime (at Tc<=75°C)	>100000h			
protection class	IP20			
max. connecting wire cross 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	



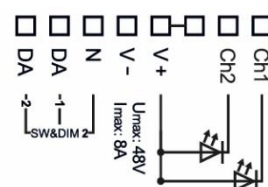
dimensions remote ceiling



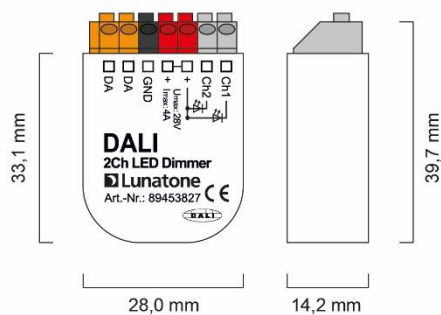
connection plan remote ceiling



dimensions back box 8A



connection plan back box 8A



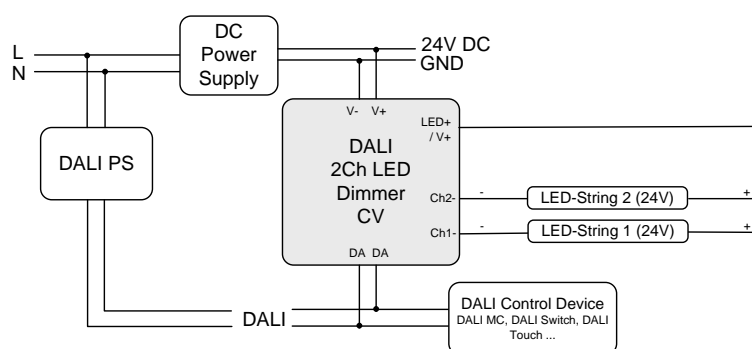
dimensions back box 4A



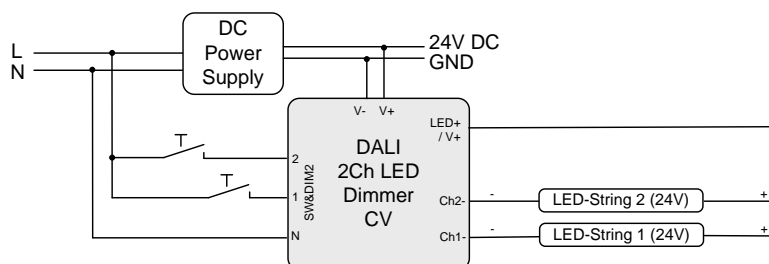
connection plan back box 4A

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

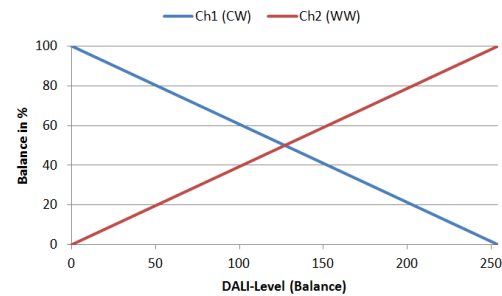
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

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



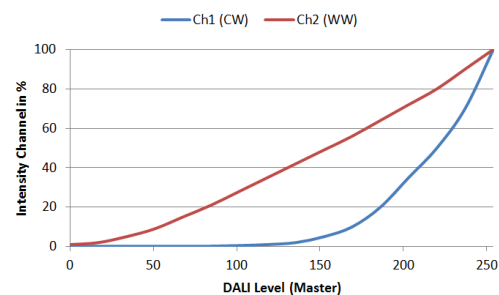
Dim2Warm

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

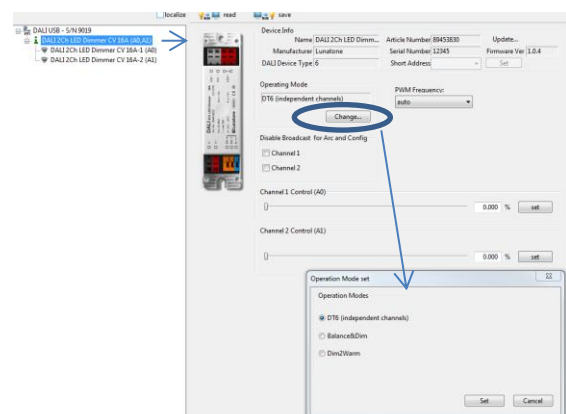


SwD2: scene selector

Selection of operating mode

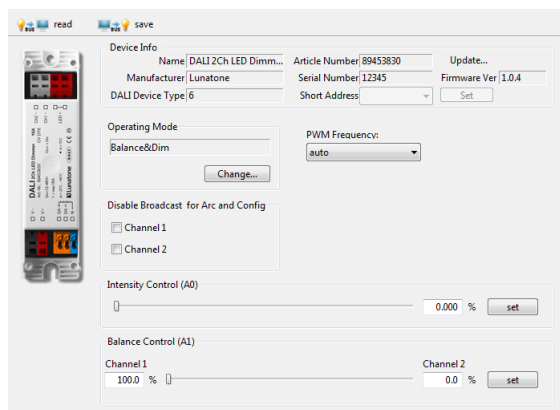
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT6:



In addition, on the same page the PWM-frequency 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:



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.

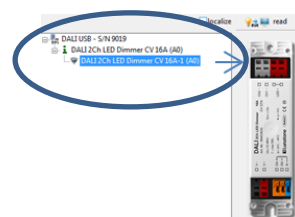
Operating Mode:

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

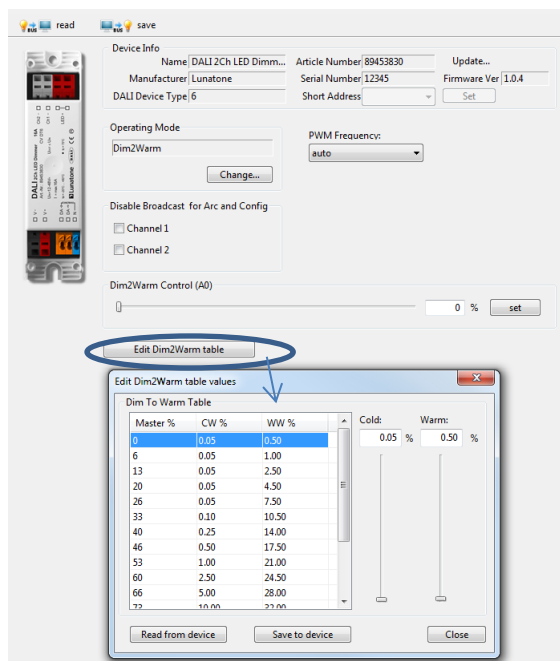
Additional Settings

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

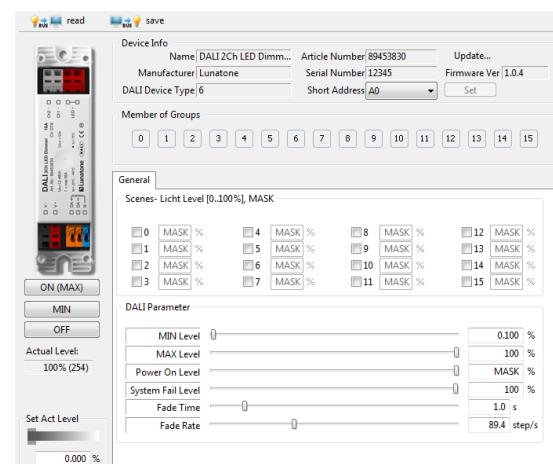
Component Tree:



Operating Mode Dim2Warm:



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



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

For each address the group membership can be set as well as scene values and DALI-parameters. 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: scene selector		
Min Level	0.1%		
PowerOn Level	MASK (last value)		
Fade Time	2 (1s)		
Fade Rate	5 (89.4 steps/s)		
PWM-frequency	122Hz		
Groups before initial addressing:	G0 – channel 0 G1 – channel 1		
predefined scene values	Scene	Ch1	Ch2
	0, 4, 8, 12	100%	0%
	1, 5, 9, 13	0%	100%
	2, 6, 10, 14	100%	100%
	3, 7, 11, 15	0%	0%

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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMITECH



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

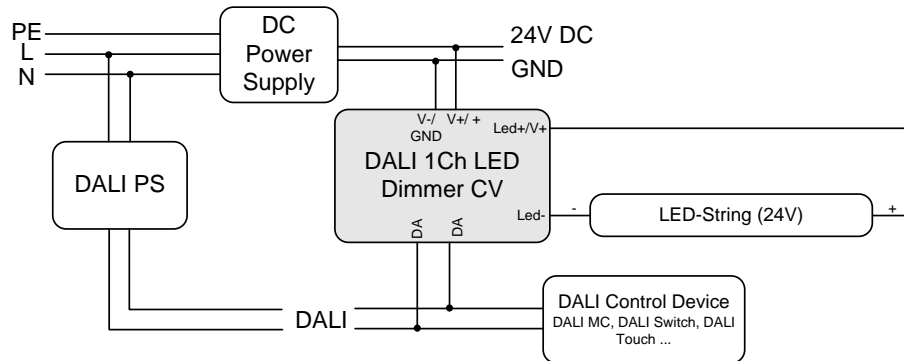
- 1 channel DALI LED-Dimmer
- suitable for constant voltage LED-modules with operating voltages from 12V to 48V
- **Sw&Dim or SwitchDim2:** 1 or 2 switch inputs offer control of light level control without DALI, up from FW 4.0 device can be alternatively controlled directly by a motion sensor (corridor 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)	120 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 mm²		2.5 mm², DALI/Sw&Dim: 1.5 mm²	
dimensions (LxWxH)	40x28x14 mm	59x33x15 mm	120x30x22 mm	
housing/mounting	back box		remote ceiling	

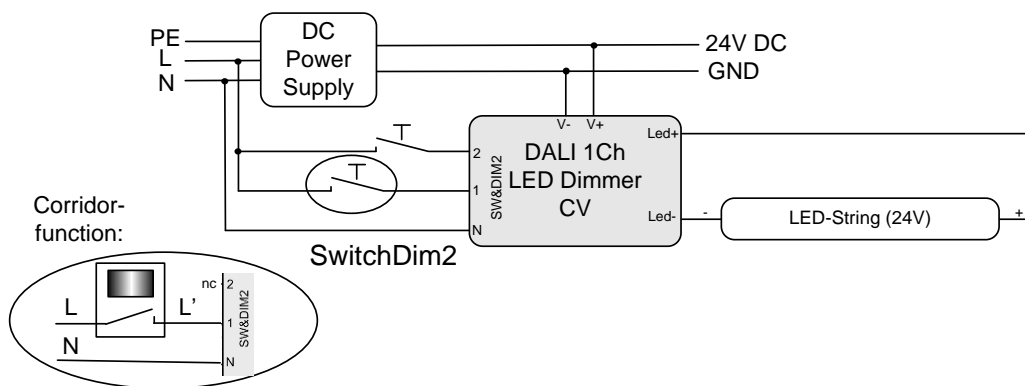
RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

DALI:



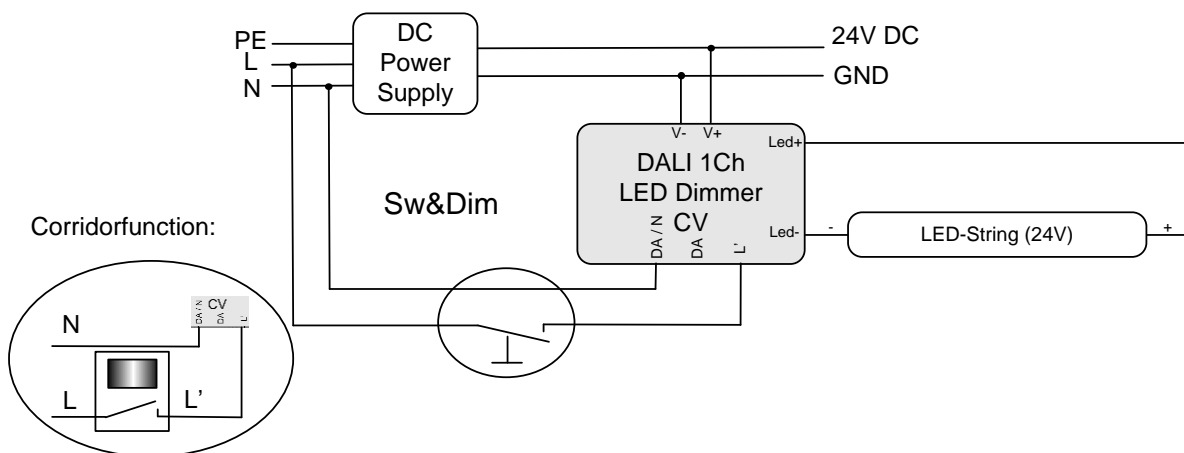
SwitchDim2 (8A type):

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

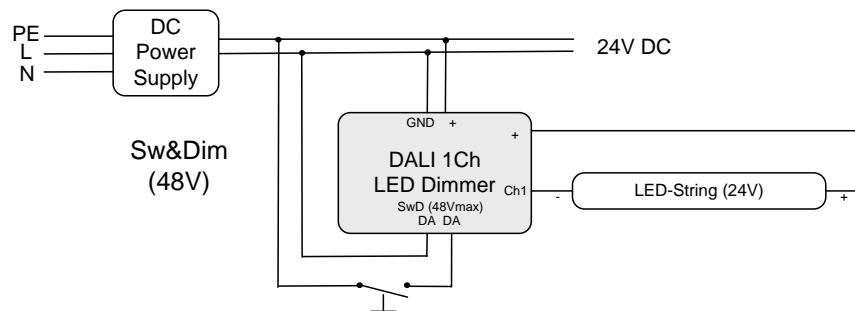


Sw&Dim (10A/16A types): – Switch and Dim

- 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 its DALI address (Device Type 6).

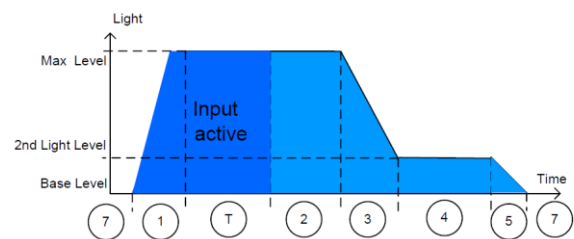
Alternatively the device can be controlled by one (Sw&Dim) or two switch inputs (SwitchDim2):

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:

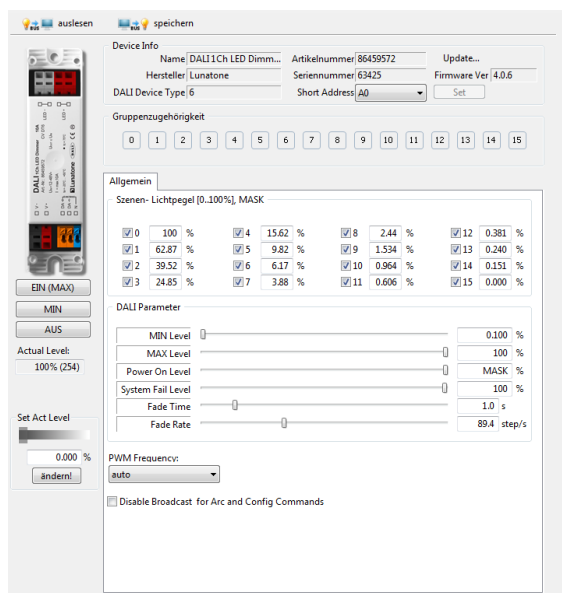
1 – Fade-In Time:	immediate
2 – Holdtime Max Level:	10 minutes
3 – Fade Time:	5 seconds
4 – HoldTime 2nd Level:	10 minutes
5 – Fade Out Time:	5 seconds
Max Level (P,2):	100%
2nd Light Level (4):	50%
Base Level (7):	0%

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):



Scene 3: 203	Scene 11: 67
Scene 4: 186	Scene 12: 50
Scene 5: 169	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

Factory Default Settings

Before the initial addressing is performed, the device can already be controlled by group address G0. 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-frequency	122Hz
Groups before initial addressing	G0
scene values:	Scene 0: 254 Scene 1: 237 Scene 2: 220 Scene 8: 118 Scene 9: 101 Scene 10: 84

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from

Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

JUMiTECH



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)

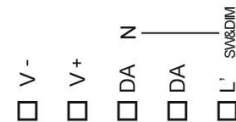
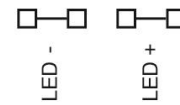
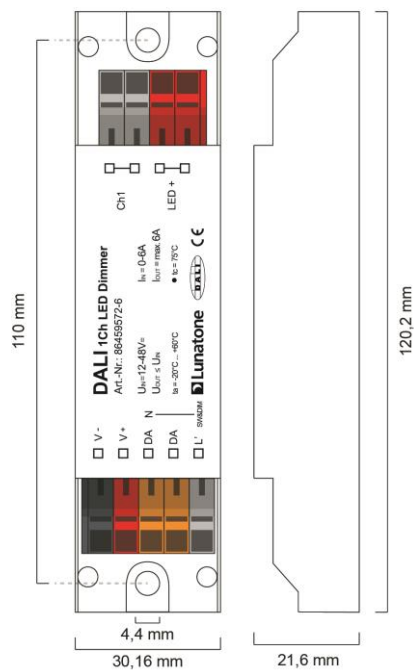
DALI 1Ch LED Dimmer Control Gear

Overview

- 1 Channel LED Dimmer
- Suitable for constant voltage LED-modules
- 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

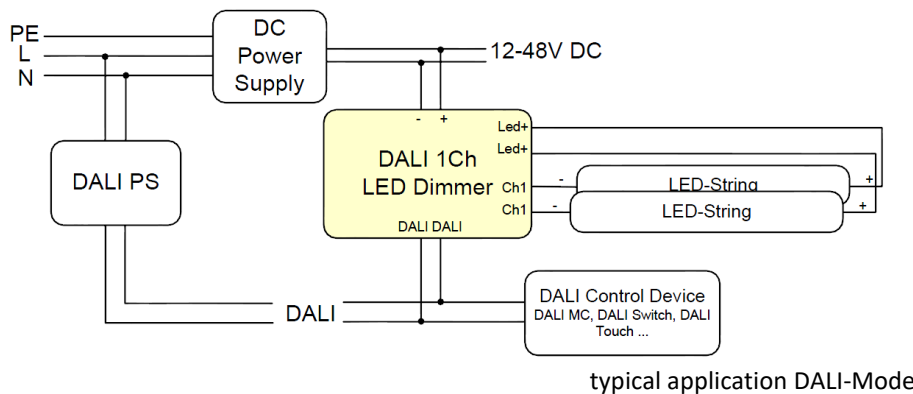
Specification, Characteristics

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



connection plan

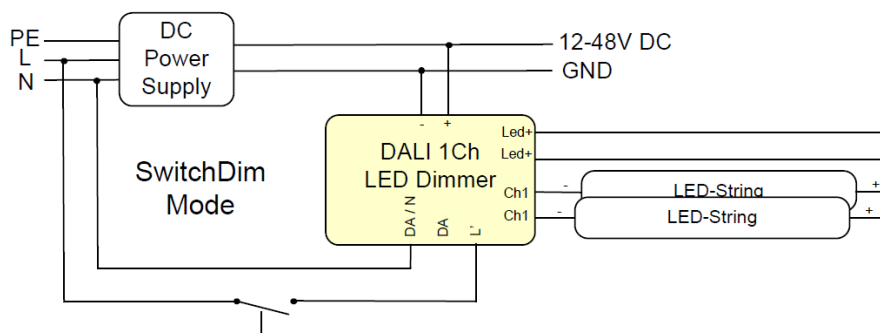
geometry



typical application DALI-Mode

DALI-Mode:

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



Prinzipialschaltbild 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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk

JUMITECH



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.