

DALI-2 CW-WW LED Dimmer CC

Datasheet

Control Gear

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

common plus connector

Art. Nr. 86458911-350 (350mA)

Art.Nr. 86458911-350DE (350mA)

Art. Nr. 86458911-500 (500mA)

Art. Nr. 86458911-500DE (500mA)

Art. Nr. 86458911-700 (700mA)

Art. Nr. 86458911-1000 (1000mA)

common minus connector

Art.Nr. 86458911-350GMDE (350mA)

Art.Nr. 86458911-500GMDE (500mA)

Art. Nr. 86458911-700GM (700mA)

Art. Nr. 86458911-1000GM (1000mA)



DALI-2 CW-WW LED-Dimmer CC Control Gear

Overview

- DALI-2 LED-Dimmer for the control of tunable white luminaires
- suitable for constant current LED-modules
- **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 from FW version 4.6 on changed PWM frequencies: 250Hz / 500Hz / 1kHz)
- types for constant currents of 350mA, 500mA, 700mA and 1000mA
- types with common plus and common minus connector available
- compact types for integration in luminaires or remote ceiling
- supply voltage from 12V to 48V DC
- output voltage up to 45VDC
- integrated short circuit protection
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI interface (e.g. DALI USB)
- user-friendly factory default settings

Specification, Characteristics

Common plus connector (GP)

type	DALI CW-WW 350/500mA	DALI CW-WW 350/500mA DE	DALI CW-WW 700mA	DALI CW-WW 1000mA
article number	86458911-350 / 86458911-500	86458911-350DE/500DE	86458911-700	86458911-1000

supply: V+, V- (GND)

supply: V+, V- (GND)				
type of input	supply, DC			
marking terminals	+, GND	V+, V-		
supply voltage V_{in}	12V DC ... 48V DC (SELV)			
max. input current I_{in_max}	350mA / 500mA	350mA / 500mA	700mA	1000mA
rated power @12V	4,2/6W	4,2/6W	8,4W	12W
rated power @48V	16,8/24W	16,8/24W	33,6W	48W
standby power consumption	~ 180mW @12V			
power on behaviour	configurable via DALI: 0%-100% or last actual level			

input: DA, DA

input type	DALI, control input
marking terminals	DA, DA
input voltage range	9,5V ... 22,5V (according to IEC62386-101)
current consumption DALI	2mA
overvoltage protection	250V
number of DALI-addresses	operating mode DT8, Dim2Warm: 1 operating mode Balance&Dim: 2

input: N, SW&DIM2-1, SW&DIM2-2

Input type	-	SwitchDim2 control input
marking terminals	-	N; SW&DIM2-1 (DA); SW&DIM2-2 (DA)
number of inputs	-	2
input voltage	-	230V AC $\pm 10\%$
frequency of input voltage	-	50Hz
control pulse length	-	short press: >40ms, long press: > 400ms
input resistance	-	200k Ω
max. voltage between inputs	-	230V AC

output: LED+, CW-, WW-

output type	LED dimmer, constant current PWM			
marking terminals	LED+, CW-, WW-			
number of outputs	2			
PWM frequency	FW: < 4.6: 122Hz/244Hz/488Hz/976Hz FW: ≥ 4.6 : 250Hz/ 500Hz / 1kHz			
output voltage range V_{led}	3V-45V (at 48V supply)			
max. output current per channel I_{led}	350/500 mA	350/500mA	700mA	1000mA
max. output power per channel @45V	15,75/22,5 W	15,75/22,5 W	31,5 W	45W
overload protection	yes			
open circuit protection	yes			
short circuit protection	yes			

insulation data

impulse voltage category	II
pollution degree	2
rated insulation voltage	250V
rated impulse withstanding voltage	4kV
Isolation	
supply <-> output	no insulation
DALI/Sw&Dim2 <-> output/supply	reinforced isolation
DALI/Sw&Dim2 <-> housing	reinforced isolation
Insulation test voltage	3000VAC

environmental conditions:

operational ambient temperature T_a	-20°C ... +60°C
storing and transportation temperature	-20°C ... +75°C
rel. humidity, none condensing	15% ... 90%

general data

dimensions (l x w x h)	59 x 33 x 15mm	120 x 30 x 22mm	120mm x 41mm x 22mm
mounting	back box	remote ceiling, integration in class II luminaires	
rated maximum temperature tc	75°C		
expected lifetime (T<Tc)	>100.000h		
housing material	PC, class V0		
protection class	II in intended use		
protection degree housing	IP40		
protection degree terminals	IP20		

terminals: V+, V-

connection type	See section terminals DA, DA, N, LED+, CW-, WW-	spring terminal connector (cage clamp)
wire size solid core		0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size fine wired		0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size using wire end ferrule		0,25 ... 1,5mm ²
stripping length		5 ... 6mm / 0,2 ... 0,24 inch
housing material		PA66, class V0
actuation type		operating tool

terminals: DA, DA, N, LED+, CW-, WW-

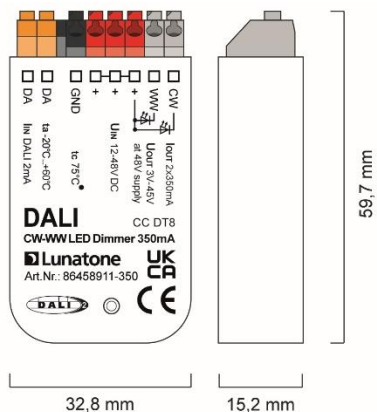
connection type	spring terminal connector (push in cage clamp)
wire size solid core	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size fine wired	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size using wire end ferrule	0,25 ... 1mm ²
stripping length	8,5 ... 9,5mm / 0,33 ... 0,37 inch
housing material	PA66, class V0
actuation type	push button

standards

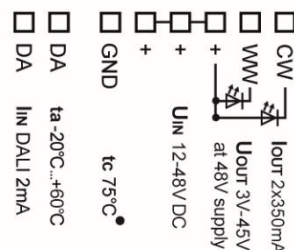
DALI	EN 62386-101, EN 62386-102, EN 62386-207
EMC	EN 61547 EN 55015 / IEC CISPR15
electrical safety	EN 61347-2-13 EN 61357-1
performance	EN 62384
markings	CE, UKCA, DALI-2

on request: output currents from 100mA to 1000mA available

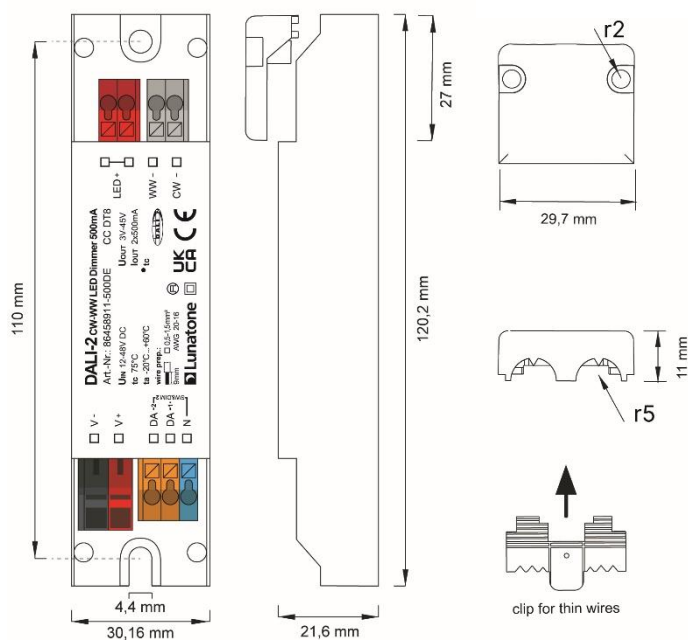
Dimensions for constant currents up to 500mA, common plus



dimensions back box



connection plan back box

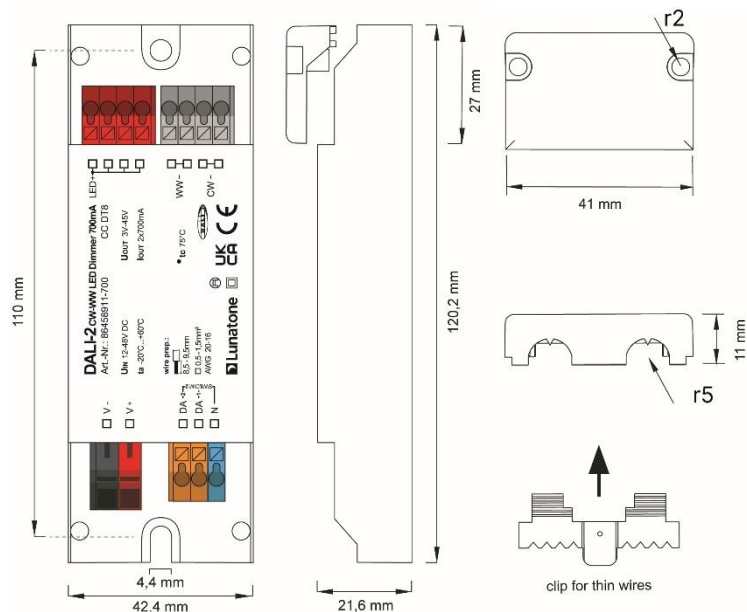


dimensions remote ceiling

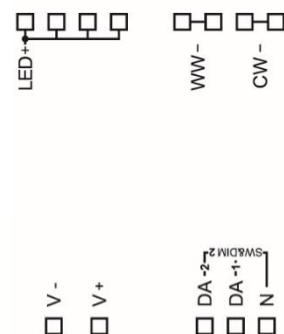


connection plan remote ceiling

Dimensions for constant currents >500mA, common plus



dimensions remote ceiling



connection plan remote ceiling

Common minus connector (GM)

type	DALI CW-WW 350/500mA GM DE	DALI CW-WW 700mA GM	DALI CW-WW 1000mA GM
article number	86458911- 350GMDE/500GMDE	86458911-700GM	86458911-1000GM

supply: V+, V-

type of input	supply, DC		
marking terminals	V+, V-		
supply voltage U_{in}	12V DC ... 48V DC (SELV)		
max. input current I_{in_max}	350/500mA	700mA	1000mA
rated power @12V	4,2/6W	8,4W	12W
rated power @48V	16,8 /24W	33,6W	48W
standby power consumption	~ 180 mW @12V		
power on behaviour	configurable via DALI: 0%-100% or last actual level		

input: DA, DA

input type	DALI, control input		
marking terminals	DA, DA		
input voltage range	9,5V ... 22,5V (according to IEC62386-101)		
max. current consumption DALI	2mA		
overvoltage protection	250V		
number of DALI-addresses	operating mode DT8, Dim2Warm: 1 operating mode Balance&Dim: 2		

input: N, SW&DIM2-1, SW&DIM2-2

input type	SwitchDim2 control input		
marking terminals	N; SW&DIM2-1 (DA); SW&DIM2-2 (DA)		
number of inputs	2		
input voltage	230V AC $\pm 10\%$		
frequency of input voltage	50Hz		
control pulse length	short press: >40ms, long press: > 400ms		
input resistance	200k Ω		
max. voltage between inputs	230V AC		

output: LED-, CW+, WW+

output type	LED dimmer, constant current PWM		
marking terminals	LED-, CW+, WW+		
number of outputs	2		
PWM frequency	FW: < 4.6. 122Hz/244Hz/488Hz/976Hz FW: \geq 4.6: 250Hz/ 500Hz / 1kHz		
output voltage range V_{led}	3V-45V (at 48V supply)		
max. output current per channel I_{led}	350/500mA	700mA	1000mA
max. output power per channel @45V	15,75/22,5W	31,5W	45W
overload protection	yes		
open circuit protection	yes		
short circuit protection	yes		

insulation data

impulse voltage category	II		
pollution degree	2		

rated insulation voltage	250V
rated impulse withstanding voltage	4kV
insulation	
supply <-> output	no insulation
DALI/Sw&Dim2 <-> output/supply	reinforced isolation
DALI/Sw&Dim2 <-> housing	reinforced isolation
Insulation test voltage	3000VAC

environmental conditions

operational ambient temperature	-20°C ... +60°C
storing and transportation temperature	-20°C ... +75°C
rel. humidity, none condensing	15% ... 90%

general data

dimensions (l x w x h)	120 x 30 x 22mm	120mm x 41mm x 22mm
mounting	remote ceiling, integration in class II luminaires	
rated maximum temperature tc	75°C	
expected lifetime (T<Tc)	>100.000h	
housing material	PC, class V0	
protection class	II in intended use	
protection degree housing	IP40	
protection degree terminals	IP20	

terminals: V+, V-

connection type	spring terminal connector (cage clamp)
wire size solid core	0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size fine wired	0,08 ... 2,5mm ² (AWG 28 ... AWG 12)
wire size using wire end ferrule	0,25 ... 1,5mm ²
stripping length	5 ... 6mm / 0,2 ... 0,24 inch
housing material	PA66, class V0
actuation type	operating tool

terminals: DA, DA, N, LED-, CW+, WW+

connection type	spring terminal connector (push in cage clamp)
wire size solid core	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size fine wired	0,2 ... 1,5mm ² (AWG 24 ... AWG 16)
wire size using wire end ferrule	0,25 ... 1mm ²
stripping length	8,5 ... 9,5mm / 0,33 ... 0,37 inch
housing material	PA66, class V0
actuation type	push button

standards

DALI	EN 62386-101, EN 62386-102, EN 62386-207
EMC	EN 61547 EN 55015 / IEC CISPR15
electrical safety	EN 61347-2-13 EN 61357-1
performance	EN 62384
markings	CE, UKCA, DALI-2

on request: output currents from 100mA to 1400mA available

[illegible]

	V -	V +	LED -	WW +	CW +
SW&DM 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DA -1-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DA -2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

connection plan remote ceiling

[illegible][illegible]

connection plan remote ceiling

Installation

- The DALI CW-WW LED Dimmer is an independent control gear, it is suitable for remote ceiling and integration in luminaires.
- Ensure proper working cable relief for installation in protection class II equipment.
- The wiring should be carried out as a permanent installation in a dry and clean environment.
- Installation may only be carried out in a voltage-free state of the system and by qualified specialists.
- National regulations for setting up electrical systems must be followed.
- Connect the terminals V+ and V- only to a DC supply voltage of category SELV (Safety Extra Low Voltage).
- the connection to the DALI-line (DA,DA) is polarity free .
- If used in Sw&Dim2 mode for both inputs the same phase has to be used.
- The DALI-interface can handle mains voltage, protecting the device in case wrong wiring.
- Wiring topology of the DALI-line: line, tree, star
- Connect only one wire on each terminal, if twin ferrules are used take care to the maximum wire size.
- The DALI wiring can be realised with standard low-voltage installation material. No special cables are required.
- The DALI line may be routed together with the mains voltage (in one cable or as single wires in a tube).



Attention: The DALI-signal is not classified as SELV circuit (Safety Extra Low Voltage). Therefore, the installation regulations for low voltage apply.



The voltage drop on the DALI line must not exceed 2V at maximum length (300m) and maximum bus load (250mA).



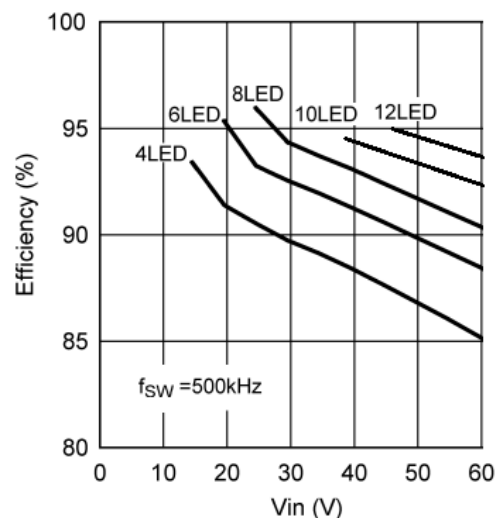
Hint:

For highest efficiency the input voltage should range between 3V and 10V above the LED-voltage:

4-6 LEDs: 24V

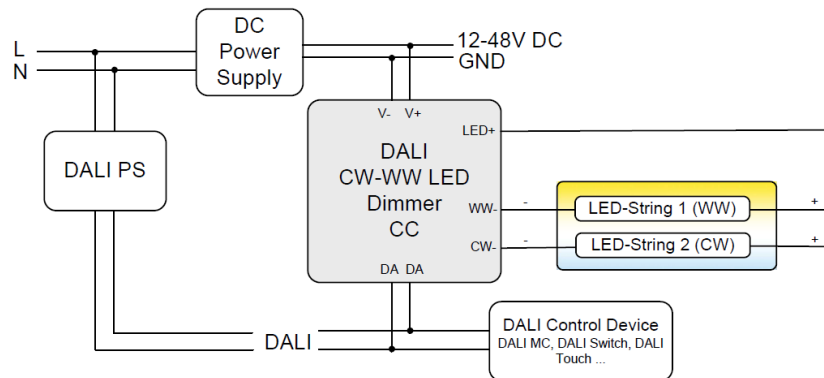
6-9LEDs: 36V

10-12 LEDs: 48V

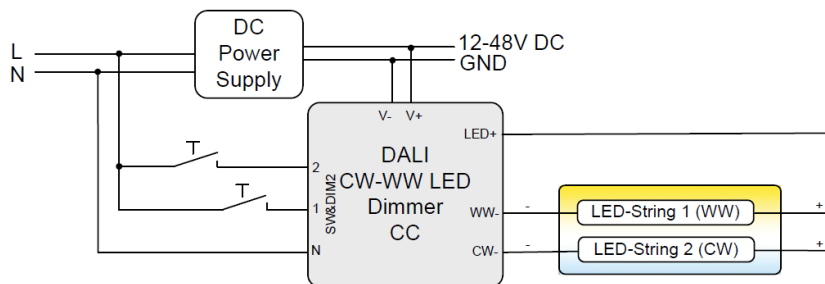


Application Example

DALI (common plus connector type)



SwitchDim2 (common plus connector type)



Commissioning

- After connection the Dimmer is ready to use. Delivery default settings see page 17.
- The DALI-2 2Ch Dimmer can be addressed with the DALI Cockpit PC Software. When using the [DALI Cockpit Software](#), the PC must be connected to the DALI bus via a suitable interface module ([DALI-2 USB](#); [DALI USB](#), [DALI-2 WLAN](#), [DALI-2 Display](#), [DALI-2 IoT](#), [DALI 4Net](#), [DALI SCI RS232](#)). The DALI Dimmer is automatically recognised by the DALI Cockpit during the addressing process and listed in the device overview.
- Scene values, groups, DALI parameters and device specific settings can be configured in the DALI Cockpit, see section [DALI Cockpit: General Settings](#) page 12 and following.

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). From FW version 4.6 on Lunatone LED Dimmer are DALI 2 compatible and support DALI 2 commands.

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

SW&DIM2-1: light level

short press: On/Off

long press: dimming

SW&DIM2-2: colour temperature

long press: change colour temperature

Balance&Dim

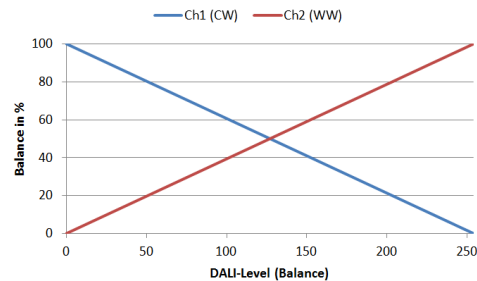
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

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, SW&DIM2-1: light level

DALI-address 2, SW&DIM2-2: balance



Dim2Warm

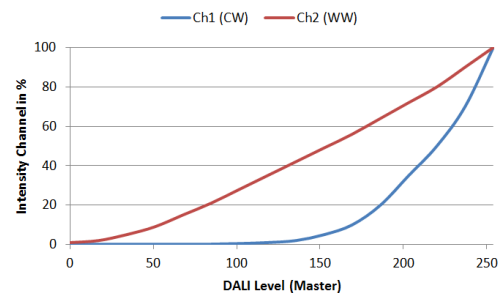
Both output channels are controlled by one DALI-address or SwitchDim2-input. The balance is coupled directly to the DALI dim level – the smaller the dim level the warmer the light.

DALI-address / SW&DIM2-1: Dim2Warm

(Master)

short press: On/Off

long press: dimming

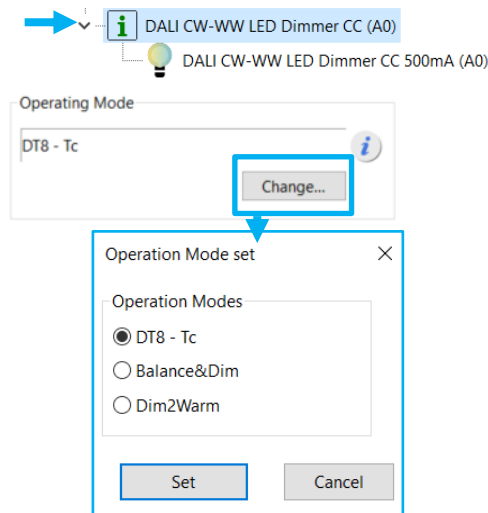


SW&DIM2-2: scene selector

The dim2warm table can be edited in the DALI Cockpit Software, see section DALI Cockpit: General Settings page 12 (Overview operating mode Dim2Warm).

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.



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

DALI Cockpit: General Settings

On the overview page respective control elements are available for each operating mode

- *DT8*: 2 sliders, one for level and one for colour temperature
- *Balance&Dim*: 2 sliders, one for level and one for balance
- *Dim2Warm*: 1 slider for input value adaption and an Edit-Function for the Dim2Warm-table.

Additionally, the following configurations can be made:

PWM Frequency

The PWM frequency can be selected:
122Hz / 244Hz / 488Hz / 976Hz.
From FW version 4.6 changed PWM frequencies: 250Hz / 500Hz / 1kHz.

Ignore Broadcast Commands

The broadcast control of each channel can be deactivated individually. Through selection of "Ignore Broadcast", the respective channel does no longer respond to broadcast commands on the DALI bus (group assignments are not ignored).

Adjustable RESET behaviour

From FW 4.6. on the response to a DALI reset command is configurable. The following options are available:

- *Ignore command*: the DALI reset command does not trigger any changes to the device settings.
- *DALI standard*: the selected device settings are reset to the values defined in the DALI standard (see table 1 below - second column: DALI standard values)
- *Custom settings*: the current device settings can be saved. With a DALI Reset command, the selected parameters (6

check boxes) are then reset to these saved values.

Calibration - light adjustment

The dimming range reaches from 0.1% to 100%. From FW version 4.6 on, it is possible to calibrate different light sources, with the option: "LED Calibration".

For each channel, the MIN level (default: 0.1%) an intermediate value (default: 33%) and the MAX level (default: 100%) can be adjusted and matched between light sources.

To do this, the desired level with the upper slider needs to be set. Apply the value and start the fine adjustment by pressing the button next to it. The appropriate fine adjustments can now be made with the calibration slider below. See also Figure 1

Overview operating mode DT8

Overview operating mode Balance&Dim

Overview operating mode Dim2Warm

Master %	CW %	WW %
0.1	0.05	0.50
0.155	0.05	1.00
0.246	0.05	2.50
0.392	0.05	4.50
0.623	0.05	7.50
0.991	0.10	10.50
1.576	0.25	14.00
2.51	0.50	17.50
3.88	1.00	21.00
6.17	2.50	24.50
9.82	5.00	28.00
14.67	10.00	33.00
22.50	20.00	37.00
33.00	33.00	40.00
45.00	50.00	45.00
58.00	75.00	50.00
72.00	100.00	55.00
87.00	100.00	60.00
100.00	100.00	65.00

*change of the Dim2Warm table are being saved via "Save" to the device as other device parameters

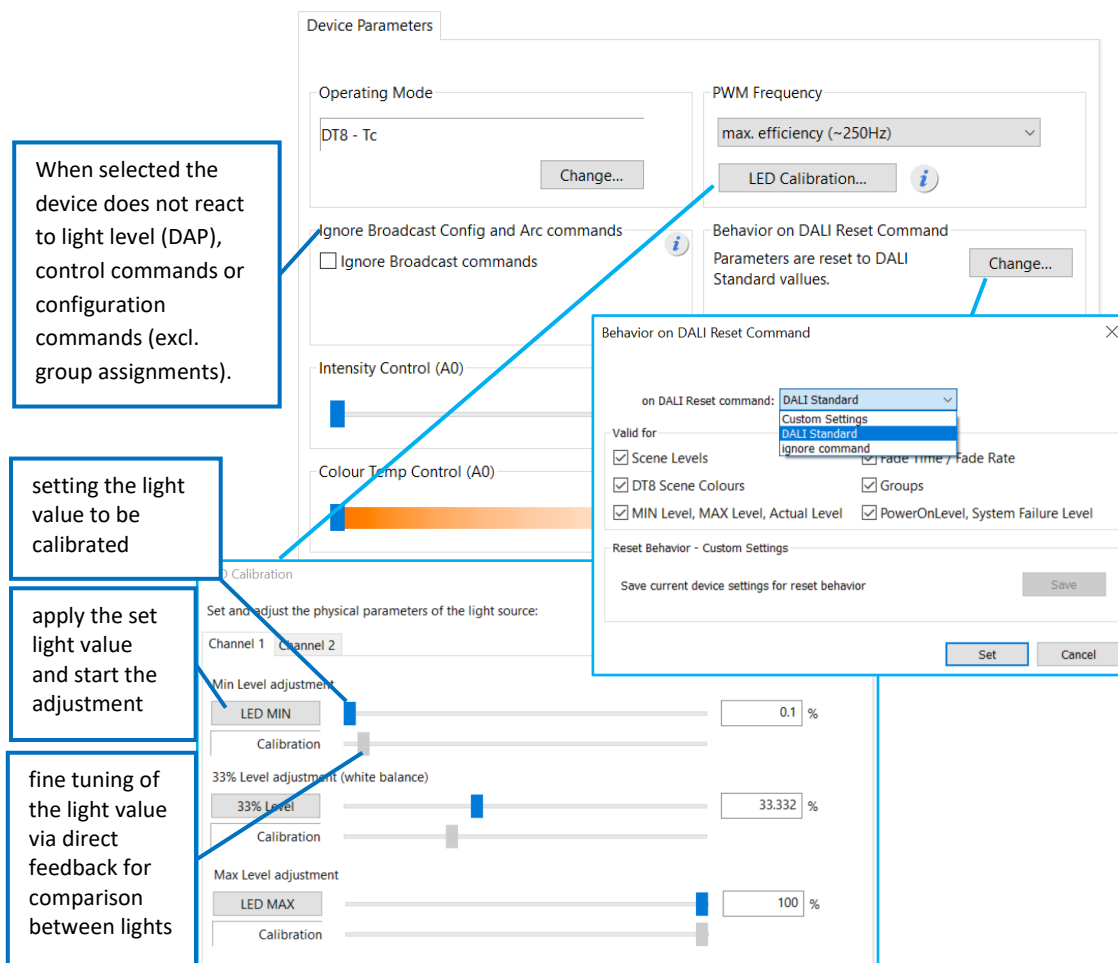
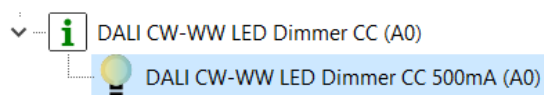


Figure 1 Cockpit overview page – LED calibration and settable RESET behaviour

DALI Cockpit: Additional Settings

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



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.

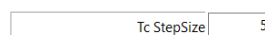
Figure 2 on page 16 shows the setting options for operating mode DT8.

Figure 3 on page 16 shows the settings for each channel for operating modes

Balance&Dim and Dim2Warm.

DT8 – Tc Limits and Colour Temperature step size

The Tc step size can be increased (instead of the DT8 Tc DALI standard value: 1), to speed up colour temperature changes when using the commands TC STEP COOLER/WARMER.



The values “Physical Warmest”/”LED Warmest” and “Physical coolest”/”LED coolest” capture the range the connected LED allows.

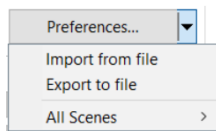
“Tc warmest” and “Tc coolest” colour temperatures represent the limit values for

colour temperature like the Min and Max level do for the brightness. These values can be adjusted to compensate for colour differences between different light sources.

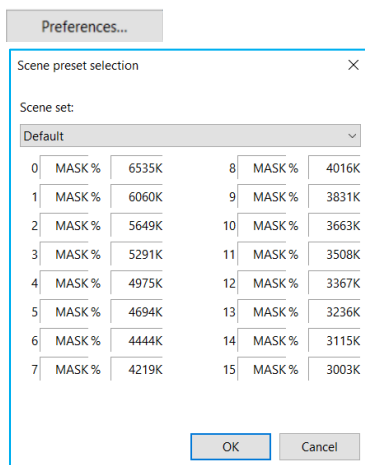


Scene settings

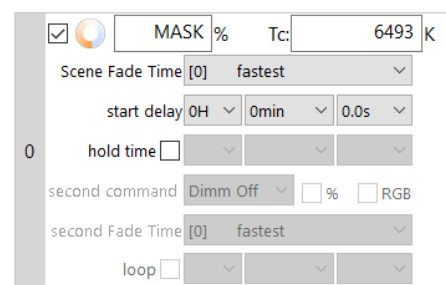
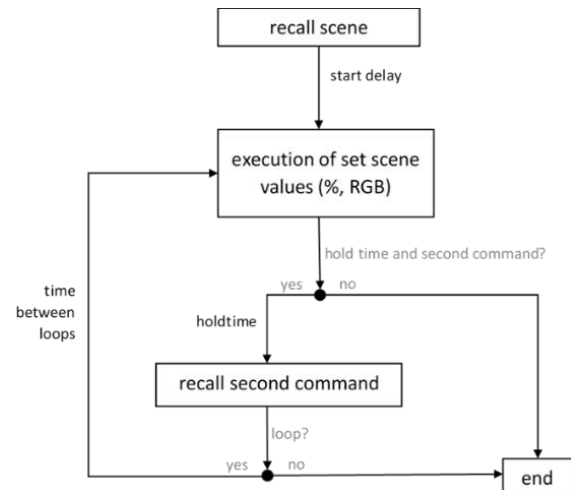
Via the arrow button the scene settings can be imported and exported.



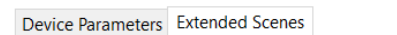
Via the button „Preferences“ the default scene settings can be loaded.



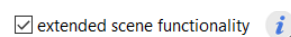
From FW 6.0 on, extended scene settings can be configured. With extended scenes it is possible to automatically change between 2 scene values (once or looped). Thereby enabling configuration of blinking lights, time delayed switch off or light repetitions, as well as traveling lights with multiple dimmers.



Extended Scenes are available for each of the 16 scenes on the second tab:

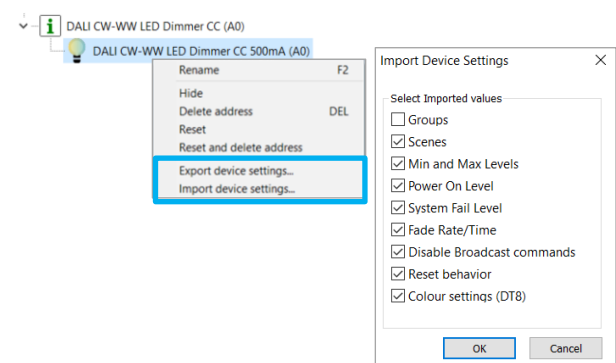



By enabling the extended scenes these are used instead of the standard scenes on the “Device Parameters” tab



Import/Export settings

With a right click on the channel in the device-tree overview the device settings can be exported or imported.





DALI CC DT8
CW-WW LED Dimmer 500mA
Lunatone
Art-Nr. 86458911-500

Actual Level: 0%

ON (MAX) OFF
MIN

Set Act Level
0.193 %
Set

Set Colour
Tc: 1501 K
Set

Device Info

Name	DALI CW-WW LED Dim...	Article Number	86458911-500	GTIN	
Manufacturer	Lunatone	Serial Number	102	FW	5.2.70
Device Type	8	Type	Control Gear		
DALI Ver	V2.0	Short Address	(A0) DALI CW-WW LED Dimmer <		Set

Device Parameters

Groups: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

DALI Parameter

MIN Level:		0.1 %
MAX Level:		100 %
Power On Level:		100 %
Power On Colour:	Tc: MASK K	
System Fail Level:		100 %
System Fail Color:	Tc: MASK K	
Fade time		ext fade s
Ext Fade Time		fastest
Fade rate		11.2 step/s

Scenes


Group	Scene	Level	Tc	Scene	Level	Tc
0	MASK %	Tc: 6535 K	8	MASK %	Tc: 4016 K	
1	MASK %	Tc: 6060 K	9	MASK %	Tc: 3831 K	
2	MASK %	Tc: 5649 K	10	MASK %	Tc: 3663 K	
3	MASK %	Tc: 5291 K	11	MASK %	Tc: 3508 K	
4	MASK %	Tc: 4975 K	12	MASK %	Tc: 3367 K	
5	MASK %	Tc: 4694 K	13	MASK %	Tc: 3236 K	
6	MASK %	Tc: 4444 K	14	MASK %	Tc: 3115 K	
7	MASK %	Tc: 4219 K	15	MASK %	Tc: 3003 K	

Tc Limits

Physical Warmest	1501 K
Physical Coolest	7518 K
Tc Warmest	1501 K
Tc Coolest	7518 K

Tc StepSize: 5

Figure 2 Cockpit settings for DT8



DALI CC DT8
CW-WW LED Dimmer 500mA
Lunatone
Art-Nr. 86458911-500

Actual Level: 0%

ON (MAX) OFF
MIN

Set Act Level
0 %
Set

Device Info

Name	DALI CW-WW LED Dim...	Article Number	86458911-500	GTIN	
Manufacturer	Lunatone	Serial Number	106	FW	5.2.70
Device Type	6	Type	Control Gear		
DALI Ver	V2.0	Short Address	(A0) DALI CW-WW LED Dimmer <		Set

Device Parameters

Groups: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

DALI Parameter

MIN Level:		0.1 %
MAX Level:		100 %
Power On Level:		100 %
System Fail Level:		100 %
Fade time		ext fade s
Ext Fade Time		fastest
Fade rate		44.7 step/s

Scenes

Group	Scene	Level	Scene	Level	Scene	Level
0	100 %	4	100 %	8	100 %	
1	0 %	5	0 %	9	0 %	
2	100 %	6	100 %	10	100 %	
3	0 %	7	0 %	11	0 %	
				12	100 %	
				13	0 %	
				14	100 %	
				15	0 %	

Figure 3 Cockpit settings for each channel - Balance&Dim and Dim2Warm

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.

The factory default values as well as the DALI-norm values are summarised in *Table 1* below.

Table 1 factory default settings column 1, DALI Standard settings column 2

	Delivery default			DALI norm
Operating mode	DT8			N/A (remains unchanged)
SwitchDim2	SW&DIM2-1: light level SW&DIM2-2: colour temperature			N/A (remains unchanged)
Min Level	0.1%			0.1%
Max Level	100%			100%
Power On Level	Last light level (= MASK)			100%
System Failure Level	100%			100%
Fade Time	1s [2]			none
Fade Rate	89.4 steps/s [5]			44.7 steps/s
Tc-step size	3			N/A (remains unchanged)
PWM-Frequency	FW ≥ 4.6: 1kHz FW < 4.6: 122Hz			N/A (remains unchanged)
Control before initial addressing	G0 (G0 and G1 in operating mode Balance&Dim)			None
Scene values	Scene	light level	colour temperature	All scene values MASK
	0	MASK	6535 K	
	1	MASK	6060 K	
	2	MASK	5649 K	
	3	MASK	5291 K	
	4	MASK	4975 K	
	5	MASK	4694 K	
	6	MASK	4444 K	
	7	MASK	4219 K	
	8	MASK	4016 K	
	9	MASK	3831 K	
	10	MASK	3663 K	
	11	MASK	3508 K	
	12	MASK	3367 K	
	13	MASK	3236 K	
	14	MASK	3115 K	
	15	MASK	3003 K	
Behaviour on DALI RESET command	set DALI Standard values, see column 2			N/A (remains unchanged)

Purchase Order Information

Art.Nr. 86458911-xxx:

DALI CW-WW LED Dimmer CC
constant current xxxmA - 100mA -500mA,
common plus connector,
supply 12V-48V DC,
output voltage range: 3V-45V,
back box

Art.Nr. 86458911-xxxDE:

DALI CW-WW LED Dimmer CC,
constant current xxxmA - 100mA-500mA,
common plus connector,
supply 12V-48V DC,
output voltage range: 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Art.Nr. 86458911-xxx:

DALI CW-WW LED Dimmer CC,
constant current xxxmA - 500mA -1000mA,
common plus connector,
supply 12V-48V DC,
output voltage range: 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Art.Nr. 86458911-xxxGMDE:

DALI CW-WW LED Dimmer CC,
constant current xxxmA – 100mA-500mA,
common minus connector,
supply 12V-48V DC,
output voltage range: 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Art.Nr. 86458911-xxxGM:

DALI CW-WW LED Dimmer CC
constant current xxxmA - 500mA -1400mA,
common minus connector,
supply 12V-48V DC,
output voltage range: 3V-45V,
SwitchDim2,
remote ceiling & integration in luminaires

Additional Information and Equipment

Lunatone datasheets and manuals

<https://www.lunatone.com/en/downloads-a-z/>

Lunatone DALI products

<https://www.lunatone.com/en/>

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

<https://www.lunatone.com/en/product/dali-cockpit/>

Contact

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www.lunatone.com



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.