### DALI-2 4Ch LED Dimmer CC

Datasheet

**Control Gear** 

4-channel LED Dimmer (CC, DT6)

common plus connector Art. Nr. 89453855-250 (250mA) Art. Nr. 89453855-350 (350mA) Art. Nr. 89453855-500 (500mA)

common minus connector Art. Nr. 89453855-250GM (250mA) Art. Nr. 89453855-350GM (350mA) Art. Nr. 89453855-500GM (500mA) Art. Nr. 89453855-700GM (700mA)



## DALI-2 4Ch LED Dimmer CC Control Gear

#### Overview

- 4 channel DALI LED-Dimmer
- suitable for constant current LEDmodules
- **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 from FW version 4.6 on changed PWM frequencies: 250Hz / 500Hz / 1kHz)
- types with common plus connector with constant currents up to 500mA

- types with common minus connector (GM) with constant currents up to 700mA
- independent control gear, suitable for integration in luminaires (protection class II) and remote ceiling
- supply voltage 12V to 48V DC
- output voltage up to 45VDC
- 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 4Ch 250mA GP	DALI 4Ch 350mA GP	DALI 4Ch 500mA GP
article number	89453855-250	89453855-350	89453855-500

#### supply: V+, V-

Supply. V , V-					
type of input		supply, DC			
marking terminals		V+, V-			
supply voltage V <sub>in</sub>		12V DC 48V DC (SELV)			
max. input current l <sub>in_max</sub>	1000mA 1400mA 2000mA				
rated power @12V	12W	12W 16,8W 24W			
rated power @48V	48W 67W 96W				
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)
max. current consumption DALI	≤ 2mA
overvoltage protection	250V
number of DALI addresses	operating mode DT6: 4
number of DALI addresses	operating mode Colour&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 ±10%		
frequency of input voltage	50Hz		
control pulse length	short press: >40ms, long press: > 400ms		
input resistance	200kΩ		
max. voltage between inputs	230V AC		

#### output: LED+, Ch1-, Ch2-, Ch3-, Ch4-

output type	LED dimmer, constant current PWM					
marking terminals	LED+, Ch1-, Ch2-, Ch3-, Ch4-					
number of outputs	4					
PWM frequency	FW: < 4.6. 122Hz/244Hz/488Hz/976Hz FW: ≥ 4.6: 250Hz/ 500Hz / 1kHz					
output voltage range V <sub>led</sub>	3V-45V (at 48V supply)					
max. output current per channel I <sub>led</sub>	250mA 350mA 500mA					
max. output power per channel @45V	11,25W 15,75W 22,5W					
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	3000V a.c.	

#### environmental conditions

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

dimensions (l x w x h)	120mmx41mmx22 mm
mounting	remote ceiling, integration in class II luminaires
rated maximum temperature tc	75°C
expected lifetime (T <tc)< td=""><td>100.000h</td></tc)<>	100.000h
nousing material	PC, class VO
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 2,5 mm² (AWG28 AWG12)		
wire size fine wired	0,08 2,5 mm <sup>2</sup> (AWG28 AWG12)		
wire size using wire end ferrule	0,25 1 mm²		
stripping length	5 6 mm / 0,2 0,24 inch		
housing material	PA66, class V0		
actuation type	operating tool		

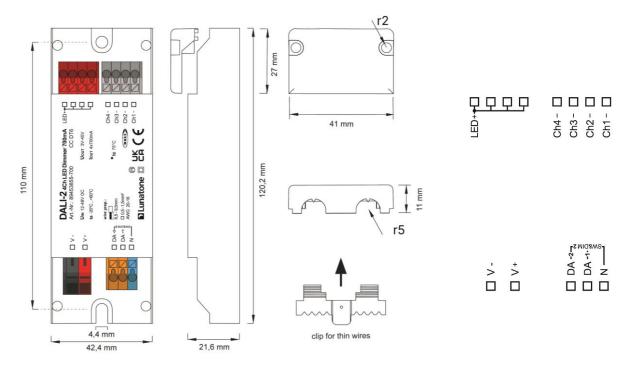
#### terminals: DA, DA, N, LED+, Ch1-, Ch2-, Ch3-, Ch4-

connection type	spring terminal connector (push in cage clamp)		
wire size solid core	0,2 1,5 mm² (AWG24 AWG16)		
wire size fine wired	0,2 1,5 mm² (AWG24 AWG16)		
wire size using wire end ferrule	0,25 1 mm <sup>2</sup>		
stripping length	8,5 9,5 mm / 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 500mA available



dimensions common plus connector type (GP)

connection plan (GP)

#### common minus connector (GM)

type	DALI 4Ch 250mA GM	DALI 4Ch 350mA GM	DALI 4Ch 500mA GM	DALI 4Ch 700mA GM
article number	89453855-	89453855-	89453855-	89453855-
	250GM	350GM	500GM	700GM

#### supply: V+, V-

type of input	supply, DC			
marking terminals	V+, V-			
supply voltage V <sub>in</sub>	12V DC 48V DC (SELV)			
max. input current I <sub>in_max</sub>	1000mA	1400mA	2000mA	2800mA
rated power @12V	12W	16,8W	24W	33,6W
rated power @48V	48W	67W	96W	134W
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)	
max. current consumption DALI	≤ 2mA	
overvoltage protection	250V	
number of DALI-addresses	operating mode DT6: 4 operating mode Colour&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 ±10%		
frequency of input voltage	50Hz		
control pulse length	short press: >40ms, long press: > 400ms		
input resistance	200kΩ		
max. voltage between inputs	230V AC		

#### output LED-, Ch1+, Ch2+, Ch3+, Ch4+

output type	LED dimmer, constant current PWM			
marking terminals	LED-, Ch1+, Ch2+, Ch3+, Ch4+			
number of outputs	4			
PWM frequency	FW: < 4.6. 122Hz/244Hz/488Hz/976Hz FW: ≥ 4.6: 250Hz/ 500Hz / 1kHz			
output voltage range V <sub>led</sub>	3V-45V (at 48V supply)			
max. output current per channel I <sub>led</sub>	250mA	350mA	500mA	700mA
max. output power per channel @45V	11,25W	15,75W	22,5W	31,5W
overload protection	yes			
open circuit protection	yes			
short circuit protection	yes			

#### insulation data

II	
2	
250V	
4kV	
no insolation	
reinforced isolation	
reinforced isolation	
3000V a.c.	
	2 250V 4kV no insolation reinforced isolation reinforced isolation

#### 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)	120mm x 41mm x 22mm	
mounting	remote ceiling, integration in class II luminaires	
rated maximum temperature tc	75°C	
expected lifetime (T <tc)< td=""><td colspan="2">100.000h</td></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 2,5 mm² (AWG28 AWG12)

wire size fine wired	0,08 2,5 mm² (AWG28 AWG12)	
wire size using wire end ferrule	0,25 1 mm²	
stripping length	5 6 mm / 0,2 0,24 inch	
housing material	PA66, class V0	
actuation type	operating tool	

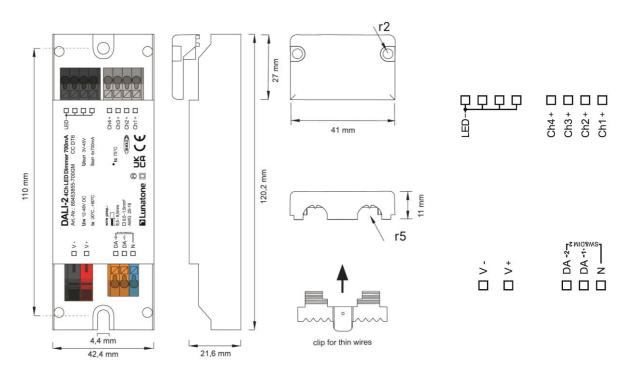
#### terminals: DA, DA, N, LED-, Ch1+, Ch2+, Ch3+, Ch4+

connection type	spring terminal connector (push in cage clamp)	
wire size solid core	0,2 1,5 mm² (AWG24 AWG16)	
wire size fine wired	0,2 1,5 mm² (AWG24 AWG16)	
wire size using wire end ferrule	0,25 1 mm <sup>2</sup>	
stripping length	8,5 9,5 mm / 0,33 0,37 inch	
housing material	PA66, class VO	
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 700mA available



dimensions common minus connector type (GM)

connection plan (GM)

#### Installation

- The DALI 4Ch 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- to a DC supply voltage of category SELV (Safety Extra Low Voltage) according to their label.
- 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



**Hint:** For highest efficiency the input voltage should range from 3V to 10V above the rated LED-voltage:

4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V

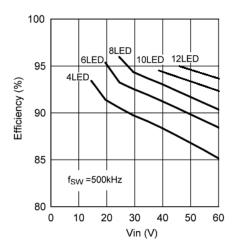
- Connect only one wire on each terminal, if twin ferrules are used take care to the maximum wire size
- The DALI wiring can be realised with standard low-voltage installation material. No special cables are required.
- The DALI line may be routed together with the mains voltage (in one cable or as single wires in a tube)

1		
~	2	
F	3	
	E	F

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



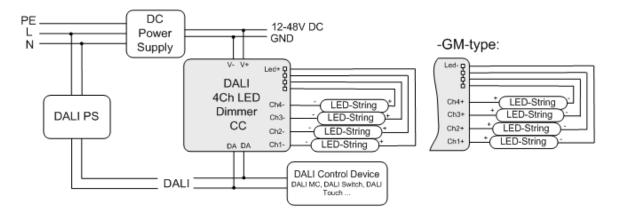
The voltage drop on the DALI line must not exceed 2V at maximum length (300m) and maximum bus load (250mA).



8

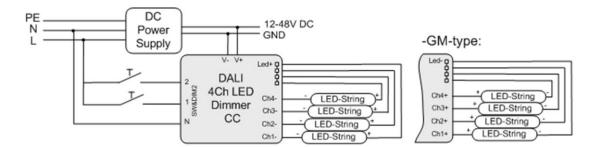
### **Application Example**

#### **Control via DALI**



#### **Control via SwitchDim2**

- use of 2 push buttons or
- alternatively using of a motion sensor with relay (SW&DIM2-1)



#### Commissioning

- After connection the 4Ch Dimmer is ready to use. Delivery default settings see page 14
- The 4Ch Dimmer can be addressed with the DALI Cockpit PC Software.
   When using the <u>DALI Cockpit Software</u>, the PC must be connected to the DALI bus via a suitable interface module (<u>DALI-2</u> <u>USB</u>; <u>DALI USB</u>, <u>DALI-2 WLAN</u>, <u>DALI-2</u> <u>Display</u>, <u>DALI-2 IOT</u>, <u>DALI 4Net</u>, <u>DALI SCI</u> <u>RS232</u>). 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 10 and following.

#### **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). 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: scene selector (short press) scene pre-set see Table 1, page 14

#### Colour&Dim

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

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

#### Can be operated via DALI or SwitchDim2:

DALI-address 1, SW&DIM2-1: light level DALI-address 2, SW&DIM2-2: colour

F	1					
0	50	100	150	200	250	
DALI Level (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.

	i DALI 4Ch LED Dimmer CC (A0,A1,A2,A3	)
	DALI 4Ch LED Dimmer CC 700mA	[1] (A0)
	DALI 4Ch LED Dimmer CC 700mA	[2] (A1)
	DALI 4Ch LED Dimmer CC 700mA	[3] (A2)
	DALI 4Ch LED Dimmer CC 700mA	[4] (A3)
Operating I	Mode	
DT6 (indep	endent channels)	<b>i</b> )
	Change	
		•
	Operation Mode set	×
	Operation Mode set	×
		×
	Operation Modes	×

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			

### DALI Cockpit: General Settings

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

- *DT6:* 4 sliders, for the light level of each respective channel
- Colour&Dim: 2 sliders one for level and one for colour

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)

Overview page operating mode DT6

 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 below.

#### Device Parameters Operating Mode PWM Frequency i max. quality (~1kHz) DT6 (independent channels) Change... LED Calibration... i Behavior on DALI Reset Comm Ignore Broadcast Config and Arc commands-Parameters are reset to DALI Standard vallues. Control Gear 1 Control Gear 3 Change... Control Gear 2 Control Gear 4 Channel 1 Control (A0) 100 % Set Channel 2 Control (A1) 100 % Set Channel 3 Control (A2) 100 % Set Channel 4 Control (A3) 100 % Set

#### Overview page operating mode Colour&Dim



	Device Parameters	
	Operating Mode	PWM Frequency
When selected the device does not read	ct to	i max. quality (~1kHz) ~ Je LED Calibration i
light level (DAP), cor commands or configuration commands (excl. gro	Control Gear 2 Control Gear 4	Parameters are reset to DALI Change Standard vallues.
assignments).	Channel 1 Control (A0)	Behavior on DALI Reset Command X
	Channel 2 Control (A1) Channel 3 Control (A2)	on DALI Reset command: DALI Standard  Custom Settings Valid for DALI Standard Ignore command Scene Levels DI 8 Scene Colours Grade Time 7
setting the light value to be calibrated	Ofannel 4 Control (A3)	✓ MIN Level, MAX Level, Actual Level       ✓ PowerOnLevel, System Failure Level         Reset Behavior - Custom Settings         Save current device settings for reset behavior
apply the set	ED Calibration et and activit the physical parameters of the light source: thannel 1 Channel 2 Channel 3 Channel 4 the Level adjustment LED MIN Calibration	Set Cancel
the light value via direct feedback for	Calibration 33% Level adjustment Calibration Max Level adjustment LED MAX Calibration	33.332 %

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.

 →
 1
 DALI 4Ch LED Dimmer CC (A0,A1,A2,A3)

 →
 ✓
 DALI 4Ch LED Dimmer CC 700mA [1] (A0)

 →
 ✓
 DALI 4Ch LED Dimmer CC 700mA [2] (A1)

 →
 ✓
 DALI 4Ch LED Dimmer CC 700mA [3] (A2)

 ↓
 ✓
 DALI 4Ch LED Dimmer CC 700mA [3] (A2)

 ↓
 ✓
 DALI 4Ch LED Dimmer CC 700mA [4] (A3)

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.

*Figure 2* on page 14 shows the settings for each channel for both operating modes DT6 and Colour&Dim.

#### Scene settings

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

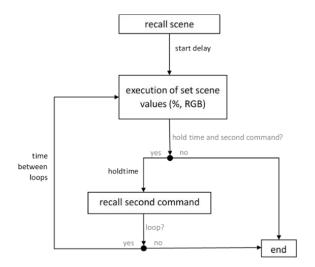
Preferences	-
Import from file Export to file	
Export to me	
All Scenes	>

Via the button "Preferences" the default scene settings can be loaded.

Pr	reference	s							
Scene	preset sel	ection							$\times$
Scene	set:								
Defau	ult Lunato	ne Cha	annel 1						$^{\vee}$
0	100 %	4	100 9	%	8	100 %	12	100	%
1	0 %	5	0 9	%	9	0%	13	0	%
2	100 %	6	100 9	% 1	0	100 %	14	100	%
3	0%	7	0 9	% 1	1	0%	15	0	%
						OK		Cancel	

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 scene functionality i								
	✓ <sup>★</sup> / <sub>100</sub> %							
	Scene Fade Time [0] fastest 🗸 🗸							
	start delay 0H $$ 0min $$ 0.0s $$ $$							
0	hold time 🗌 < 🗸 🗸							
	second command Dimm Off 🛛 🗌 % 🗌 RGB							
	second Fade Time [0] fastest 🗸 🗸							
	loop 🗌 🗸 🗸 🗸							



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

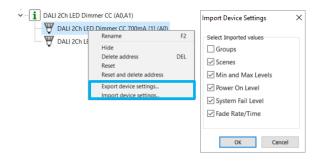
Device Parameters Extended Scenes

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

extended scene functionality (i)

#### Import/Export settings

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



	Device Info							
	Name	DALI 4Ch LED	Dimmer C	Article Number	89453855-	700	GTIN 901	0342013461
	Manufacturer	Lunatone		Serial Number	126214		FW 5.2.	33
0-0-00 0000	Device Type	6		Туре	Control Ge	ar		
r 800mA LED - 00018 Lear-0000mA - LED - 10m+4000mA - 001 - 001 - 001 - 001 - 001 - 001 - 001 - 001 - 001 - 001 - 0001 - 001 - 001 - 001 - 001 - 001 - 001 -	DALI Ver	V2.0		Short Address	(A0) DALI 4	Ch LED Dimr	mer CC 70 $  imes $	Set
Dall Ast Endommer	Groups 0 1	2 3	4 5	6 7 8	9 1	0 11	12 13	14 15
	DALI Parame	ter						
	MIN L	evel:						0.1 %
	MAX L	evel:						100 %
	Power On L	evel:						MASK %
Actual Level: MASK	System Fail L	evel:						100 %
ON (MAX) OFF	Fade	time 🔘						1.0 s
MIN	Ext Fade	Time					fa	stest
Set Act Level	Fade	rate						89.4 step/s
0 %	Scenes						Preference	es
Set	0 🗹 🔆	100 %	4 🗹 🔆 🛛	0 % 8	v 🔆 🗌	100 %	12 🗹 🔆	100 %
	1 🗹 🔆	0 %	5 🗹 🔆 🛛	0 % 9	v 🔆 🗌	0 %	13 🗹 🔆	0 %
	2 🗹 🔆	0 %	6 🗹 🔆	100 % 10	) 🗹 🔆 🗌	100 %	14 🗹 🔆	100 %
	3 🗹 🔆	0 %	7 🗹 🔆	100 % 11	I 🗹 🔆 🗌	100 %	15 🗹 🔆	0 %

Figure 2 Cockpit settings for each channel

#### **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.

The factory default values as well as the DALInorm values are summarised in *Table 1* below.

	Delivery default	DALI norm
Operating mode	DT6	N/A (remains unchanged)
SwitchDim2	SW&DIM2-1: light level	N/A (remains unchanged)
	SW&DIM2-2: scene selector	
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
PWM-Frequency	FW ≥ 4.6: 1kHz	N/A (remains unchanged
	FW < 4.6: 122Hz	
Control before initial addressing	G0 – channel1	none
	G1 – channel2	
	G2 – channel3	
	G3 – channel4	

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

Scene values

Scene	Ch1	Ch2	Ch3	Ch4	All scenes MASK
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%	
set DALI	Standar	d values	s, see co	lumn 2	N/A (remains und

A (remains unchanged)

**Behaviour on DALI RESET** command

#### **Purchase Order Information**

#### Art.Nr. 89453855-xxx

DALI 4Ch LED Dimmer CC constant current xxx mA - 100mA-500mA, common plus connector, supply 12V-48V DC, output voltage range 3V-45V DC, SwitchDim2, remote ceiling & integration in luminaires

#### Art.Nr. 89453855-xxxGM

DALI 4Ch LED Dimmer CC constant current xxx mA - 100mA-700mA, common minus connector, supply 12V-48V DC, output voltage range 3V-45V DC, 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/dalicockpit/

#### Contact

Technical Support: <a href="mailto:support@lunatone.com">support@lunatone.com</a>

Requests: sales@lunatone.com

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.

