JUMITECH

DALI RGBW LED Dimmer CC

Datasheet Control Gear

RGBW LED Dimmer (CC, DT8)

common plus connector: Art. Nr. 86458912-100 (100mA)

- Art. Nr. 86458912-250 (250mA)
- Art. Nr. 86458912-350 (350mA)
- Art. Nr. 86458912-500 (500mA)
- Art. Nr. 86458912-700 (700mA)

common minus connector:

- Art. Nr. 86458912-350GM (350mA)
- Art. Nr. 86458912-500GM (500mA)
- Art. Nr. 86458912-700GM (700mA)



DALI RGBW LED Dimmer CC Control Gear

Overview

- DALI LED-Dimmer for RGBW colour control
- Suitable for constant current LEDmodules
- Operating Mode DT8: one DALIaddress for the independent control of level and colour (DALI DT8, Type RGBWAF)
- Operating Mode Colour&Dim: control by 2 DALI-addresses, one for adjusting the level and one for adjusting the colour
- SwitchDim2: 2 switch-inputs offer • control of level and colour without DALI
- dimming range 0.1%-100%

- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- types for constant currents of 350mA, 500mA and 700mA
- types with common plus and common minus connector available
- suitable for integration in luminaires or remote ceiling
- supply voltage 12V to 48V DC •
- output voltage up to 45VDC •
- integrated short circuit protection ۲
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-• Cockpit and DALI USB-interface
- user-friendly factory default settings

Specification, Characteristics

common plus connector:

type	DALI RGBW 100mA GP	DALI RGBW 250mA GP	DALI RGBW 350mA GP	DALI RGBW 500mA GP	DALI RGBW 700mA GP
article number	86458912-100	86458912-250	86458912-350	86458912-500	86458912-700
electrical data:					

e	lec	tri	cal	d	ata	:

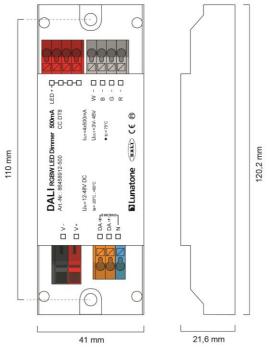
supply voltage V _{in}	12VDC-48VDC								
max. input current I _{inmax}	100mA 250mA 350mA 500mA 700								
max. output current I _{led}	100mA	700mA							
output voltage range V _{led}	3V-45V (at 48V supply)								
control input	DALI SwitchDim2 (mains voltage)								
current consumption DALI	2mA								
number of DALI- addresses	operating mode DT8: 1 operating mode Colour&Dim: 2								
standby power consumption (12V)	~ 180mW								

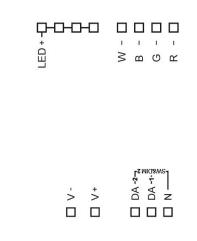
technical data:

power on behaviour	configurable via DALI: 0%-100% or last value
ambient temperature	-20°C to +60°C

expected lifetime	>100000h (at Tc<=75°C)
protection class	IP20
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²
dimensions (LxWxH)	120mmx41mmx22mm
housing/mounting	remote ceiling

on request: output currents from 100mA to 700mA available





connection plan common plus connector type

dimensions common plus connector type

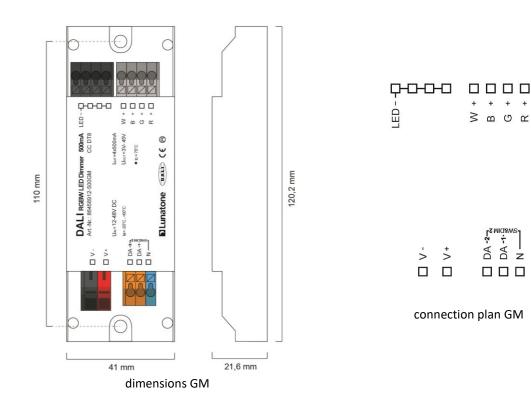
common minus connector:

type	DALI RGBW 350mA GM	DALI RGBW 500mA GM	DALI RGBW 700mA GM			
article number	86458912-350GM	86458912-500GM	86458912-700GM			
electrical data						
supply voltage V _{in}		12VDC-48VDC				
max. input current l _{inmax}	350mA	500mA	700mA			
max. output current I _{led}	350mA	500mA	700mA			
output voltage range V _{led}	3V-45V (at 48V supply)					
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)	~ 180mW					
technical data:						
power on behaviour	configura	ble via DALI: 0%-100% or	last value			
ambient temperature		-20°C to +60°C				

+

expected lifetime	>100000h (at Tc<=75°C)
protection class	IP20
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²
dimensions (LxWxH)	120mmx41mmx22 mm
housing/mounting	remote ceiling

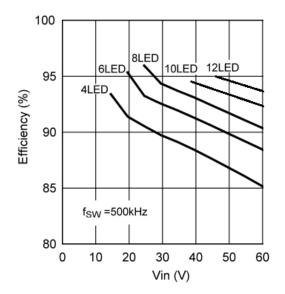
on request: output currents from 100mA to 700mA available



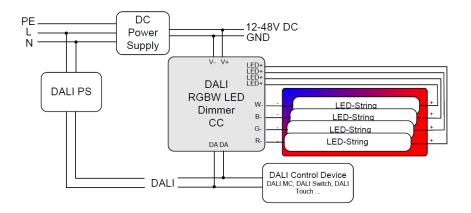


Hint: For highest efficiency the input voltage should range between 3V and 10V above the LEDvoltage:

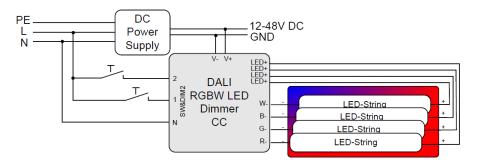
4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V



DALI (common plus connector type):



SwitchDim2 (common plus connector type):



Operating Modes

The device offers several operating modes:

DT8 (factory default)

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

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

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

Colour&Dim

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

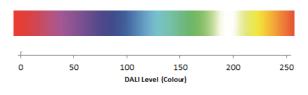
used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

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

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

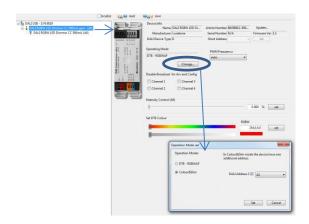
DALI-address 2, SwD2: colour



Selection of operating mode

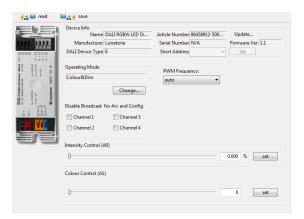
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-RGBWAF:



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

Operating mode Colour&Dim:



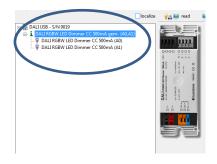
Switching between operating modes can also be done with the help of the DALI-command SET OPERATING MODE (IEC 62386-102 Ed.2). When changing the operating mode the number of used DALI-addresses can change as well and this requires a new addressing procedure. In the DALI-Cockpit this address assignment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

	Device Info Name D	ALI RGBW LED	Di Artic	le Numbe	er 86458	912-50	0 Updat	e	
113 1111	Manufacturer L	Seri	al Numbe	r N/A		Firmwar	e Ver 1.1		
	DALI Device Type 8		Sho	rt Addres	s A0		- Set		
CC ()	Member of Groups	3 4	5 6 3	7 8	9	10	11 12 13	3 14	15
Landone Control									
u.e. active active diumatione	DT8 - RGBW								
No.	Scenes-Light Lev	eLI0 100%1 M	ASK Colour B	GRW					_
		RGB	White				RGB	Whi	te
	0 MASK %	211,0,42	0	✓ 8	MASK	%	0,152,101		0
	☑ 1 MASK %	169,0,84	0	V 9	MASK	%	0,203,50		0
	2 MASK %	127,0,127	0	V 10	MASK	%	0,254,0		0
ON (MAX)	3 MASK %	84,0,169	0	v 11	MASK	%	0,127,0	1	27
	☑ 4 MASK %	42,0,211	0	V 12	MASK	%	0,0,0	2	154
MIN		0,0,254	0	V 13	MASK	%	152,101,0		0
OFF		0,50,203	0	V 14	MASK	%	203,50,0		0
ctual Level:	7 MASK %	0,101,152	0	V 15	MASK	%	254,0,0		0
100% (254)					Load Lunatone Default Values				
ctual Colour:	DALLParameter								
54,254,254,254									
et Act Level	MIN Level	0						0.100	%
	MAX Level						0	100	%
0.000 %	Power On Level						0	MASK	%
Set	Power On Colour	RGB	MASK	W MA	SK				
Colour Control	System Fail Level						0	100	%
	System Fail Colour	RGB	MASK	W MA	SK				
	Fade time							1.0 s	
254.0.0.0	Fade rate	-	0					89.4 ste	ep/s

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

	Manufacturer Lunato	GBW LED Di	Serial N	umber N/			re Ver 1.	1
	DALI Device Type 6 Member of Groups 0 1 2 3 General	4 5 (6 7	ddress A0	10 11	12 1	3 14	15
	Scenes- Licht Level [0.10	00%], MASK						
	0 MASK %	4 MA	5K %	8	MASK %		12 MA	5K %
	1 MASK %	🗐 5 🛛 MA	SK %	9	MASK %		13 MA	5K %
	2 MASK %	6 MA	SK %	10	MASK %		14 MA	SK %
ON (MAX)	3 MASK %	🕅 7 🛛 MA	5K %	11	MASK %		15 MA	5K %
MIN	DALI Parameter							
OFF	MIN Level					— r	0.10	x 00
ual Level:	MAX Level					-0	10	30 %
100% (254)	Power On Level					-0	MAS	5K %
	System Fail Level					-0	10)0 %
	Fade Time	0				- [1.0	s
Act Level	Fade Rate		0			- [89.4	step/s
0.000 %								

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

Factory Default Settings

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

Summary of the factory default settings (delivery state):

Operating mode	DT8
SwitchDim2	SwD1: level
	SwD2: colour
Min Level	0.1%
PowerOn Level	MASK (last value)
Fade Time	2 (1s)
Fade Rate	5 (89.4 steps/s)
PWM-	122Hz
frequency	

Groups before	G0									
intial	(or G0 and G1 in operating									
addressing:	mode Colo	ur&Dim)	-							
Predefined		RGB	White							
	Ø MASK %	211,0,42	0							
Scene Values:	■1 MASK %	169,0,84	0							
	2 MASK %	127,0,127	0							
	3 MASK %	84,0,169	0							
	☑ 4 MASK %	42,0,211	0							
	5 MASK %	0,0,254	0							
		0,50,203	0							
	7 MASK %	0,101,152	0							
	₩8 MASK %	0,152,101	0							
		0,203,50	0							
	10 MASK %	0,254,0	0							
	✓ 11 MASK %	0,127,0	127							
		0,0,0	254							
	✓ 13 MASK %	152,101,0	0							
	✓ 14 MASK %	203,50,0	0							
	▼15 MASK %	254,0,0	0							

Purchase Order Information

Art.Nr. 86458912-xxx: DALI RGBW LED Dimmer, CC – constant current xxx mA (100mA-700mA), common plus connector, supply 12V-48V DC, output voltage 3V-45V DC, SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 86458912-xxxGM: DALI RGBW LED Dimmer, CC – constant current xxx mA (100mA-700mA), common minus connector, supply 12V-48V DC, output voltage 3V-45V DC, SwitchDim2, remote ceiling & integration in luminaires

Additional Information

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

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

Contact

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Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

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

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

JUMITECH

DALI RGB LED Dimmer CC

Datasheet

Control Gear

RGB LED Dimmer (CC, DT8)

common plus connector: Art. Nr. 86458913-350 (350mA) Art. Nr. 86458913-500 (500mA) Art. Nr. 86458913-700 (700mA)

common minus connector: Art. Nr. 86458913-350GM (350mA) Art. Nr. 86458913-500GM (500mA) Art. Nr. 86458913-700GM (700mA)



DALI RGB LED Dimmer CC Control Gear

Overview

- DALI LED-Dimmer for RGB colour control
- Suitable for constant current LEDmodules
- Operating Mode DT8: one DALIaddress for the independent control of level and colour (DALI DT8, Type RGBWAF)
- Operating Mode Colour&Dim: control by 2 DALI-addresses, one for adjusting the level and one for adjusting the colour
- SwitchDim2: 2 switch-inputs offer control of level and colour without DALI
- dimming range 0.1%-100%

- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- types for constant currents of 350mA, 500mA and 700mA
- types with common plus and common minus connector available
- suitable for integration in luminaires or remote ceiling
- supply voltage 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 USB-interface
- user-friendly factory default settings

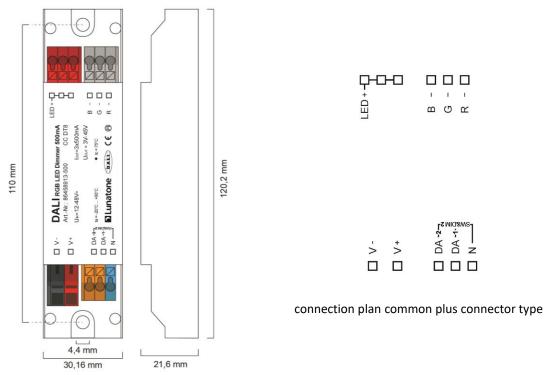
Specification, Characteristics

common plus connector:

type	DALI RGB 350mA GP	DALI RGB 500mA GP	DALI RGB 700mA GP		
article number	86458913-350	86458913-500	86458913-700		
electrical data:					
supply voltage V _{in}		12VDC-48VDC			
max. input current l _{inmax}	350mA	500mA	700mA		
max. output current I _{led}	350mA	500mA	700mA		
output voltage range V _{led}		3V-45V (at 48V supply)			
control input		DALI			
	S	witchDim2 (mains voltag	e)		
current consumption DALI	2mA				
number of DALI-addresses	operating mode DT8: 1				
number of DALI-addresses	operating mode Colour&Dim: 2				
standby power consumption (12V)	~ 180mW				
technical data:					
power on behaviour	configura	ble via DALI: 0%-100% or	last value		
ambient temperature		-20°C to +60°C			
expected lifetime		>100000h (at Tc<=75°C)			

protection class	IP20	
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²	
dimensions (LxWxH)	120mmx30mmx22mm	
housing/mounting	remote ceiling	

on request: output currents from 100mA to 700mA available



dimensions common plus connector type

common minus connector:

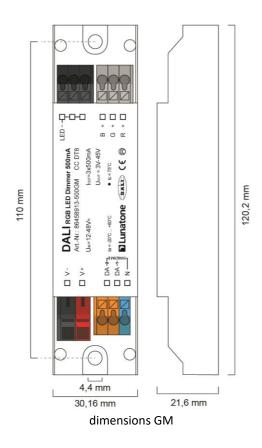
type	DALI RGB 350mA GM	DALI RGB 500mA GM	DALI RGB 700mA GM	
article number	86458913-350GM	86458913-500GM	86458913-700GM	
electrical data:				
supply voltage V _{in}		12VDC-48VDC		
max. input current I _{inmax}	350mA	500mA	700mA	
max. output current Iled	350mA	500mA	700mA	
output voltage range V _{led}		3V-45V (at 48V supply)		
control input	DALI			
	S	witchDim2 (mains voltag	e)	
current consumption DALI	2mA			
number of DALI-addresses	operating mode DT8: 1 operating mode Colour&Dim: 2			
standby power consumption (12V)		~ 180mW		

technical data:

power on behaviour	configurable via DALI: 0%-100% or last value
ambient temperature	-20°C to +60°C

expected lifetime	>100000h (at Tc<=75°C)
protection class	IP20
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²
dimensions (LxWxH)	120mmx30mmx22mm
housing/mounting	remote ceiling

on request: output currents from 100mA to 700mA available

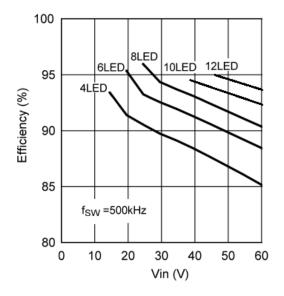


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- > - >	AD DA A A MIGWA
connecti	on plan GM

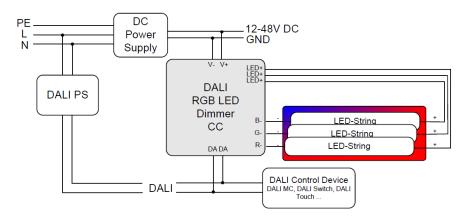


Hint: For highest efficiency the input voltage should range between 3V and 10V above the LEDvoltage:

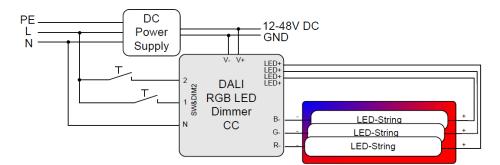
4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V



DALI (common plus connector type):



SwitchDim2 (common plus connector type):



Operating Modes

The device offers several operating modes:

DT8 (factory default)

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

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

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

Colour&Dim

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

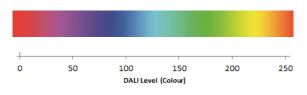
used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

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

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

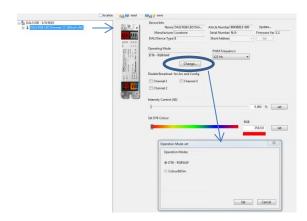
DALI-address 2, SwD2: colour



Selection of operating mode

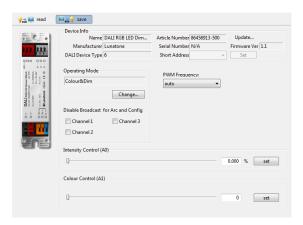
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-RGBWAF:



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

Operating mode Colour&Dim:



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

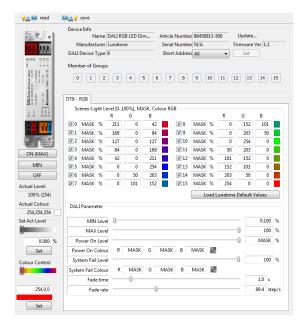
Additional Settings

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:

C .	Device Info Name DALI RG Manufacturer Lunaton		Serial Nu	mber 86458913-50 mber N/A	Firmwa	are Ver 1.1	
	DALI Device Type 6		Short Ad	dress A0	Se	t	
1.00 Demos 800A	Member of Groups 0 1 2 3	4 5	6 7	8 9 10	11 12 :	13 14	15
	General - Scenes- Licht Level [0.:100	%], MASK —					
	0 MASK %	🖽 4 🛛 MA	SK %	8 MASK 9		12 MASK]%
	1 MASK %		SK %	9 MASK 3			
	2 MASK %		SK %	10 MASK 9			
(XAM) NC	MASK %	MA	SK %	MASK >	•	15 MASK] 26
MIN	DALI Parameter						
OFF	MIN Level					0.100	%
al Level:	MAX Level				0	100	%
100% (254)	Power On Level				0	MASK	%
	System Fail Level				0	100	%
	Fade Time	0			[1.0 s	
Act Level	Fade Rate		0			89.4 st	ep/s
0.000 %							

frequency	
Groups before	G0
intial	(or G0 and G1 in operating
addressing:	mode Colour&Dim)
Predefined	R G B
	0 MASK % 211 0 42
Scene Values:	▼1 MASK % 169 0 84
	2 MASK % 127 0 127 3 MASK % 84 0 169
	Image: Wasking of the second
	▼ 4 MASK % 42 0 211
	V 6 MASK % 0 50 203
	▼7 MASK % 0 101 152
	☑ 10 MASK % 0 254 0
	☑ 11 MASK % 50 203 0
	☑ 12 MASK % 101 152 0
	▼13 MASK % 152 101 0
	V 14 MASK % 203 50 0
	▼15 MASK % 254 0 0

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

Factory Default Settings

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

Summary of the factory default settings (delivery state):

Operating	DT8
mode	
SwitchDim2	SwD1: level
	SwD2: colour
Min Level	0.1%
PowerOn Level	MASK (letzter Wert)
Fade Time	2 (1s)
Fade Rate	5 (89.4 steps/s)
PWM-	122Hz

Purchase Order Information

Art.Nr. 86458913-xxx: DALI RGB LED
Dimmer, CC constant current xxx mA (100mA-700mA), common plus connector, supply 12V-48V DC, output voltage 3V-45V DC,
SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 86458913-xxxGM: DALI RGB LED Dimmer, CC – constant current xxx mA (100mA-700mA), common minus connector, supply 12V-48V DC, output voltage 3V-45V DC, SwitchDim2, remote ceiling & integration in luminaires

Additional Information

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

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

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





Disclaimer

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

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

JUMITECH

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

Overview

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

- dimming range 0.1%-100%
- adjustable PWM-frequency (122Hz/244Hz/488Hz/976Hz)
- 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 USB-interface
- user-friendly factory default settings

Specification, Characteristics

common plus connector:

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

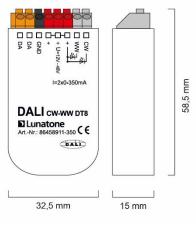
electrical	data:

supply voltage V _{in}	12VDC-48VDC						
max. input current l _{inmax}	350mA / 500mA	350mA / 500mA 700mA 1000r					
max. output current I _{led}	350mA / 500mA	A 350mA / 500mA 700mA 10					
output voltage range V _{led}	3V-45V (at 48V supply)						
control input	DALI	DALI					
	SwitchDim2						
current consumption DALI	2mA						
number of DALI-addresses	operating mode DT8, Dim2Warm: 1						
number of DALI-addresses	operating mode Balance&Dim: 2						
standby power consumption (12V)	~ 180 mW						

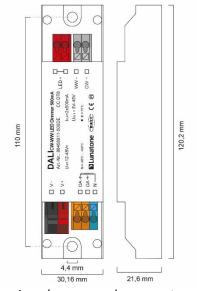
type	DALI CW-WW 350/500mA	DALI CW-WW 350/500mA DE	DALI CW-WW 700mA	DALI CW-WW 1000mA		
technical data:						
power on behaviour	con	figurable via DALI: (0%-100% or last va	alue		
storage and transportation temperature	-20°C to +75°C					
operational ambient temperature	-20°C to +60°C					
expected lifetime	>100000h at Tc<75°C					
protection class		IP2	0			
max. connecting wire cross section	up to 1.5 mm ²	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²				
dimensions (LxWxH)	59mm x 33mm x 15mm	120mm x 30mm x 22mm	1mm x 22mm			
housing/mounting	back box	remote ceiling				

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

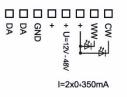
for constant currents up to 500mA:



dimensions (common plus, back box)



dimensions (common plus, remote ceiling)

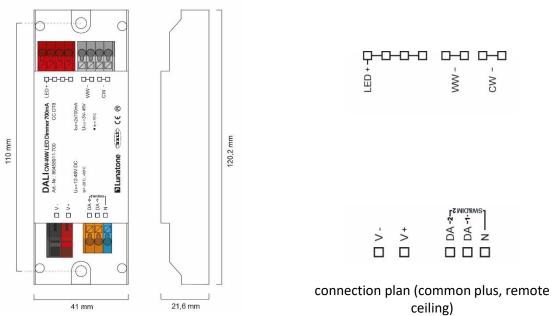


connection plan (common plus, back box)



connection plan (common plus, remote ceiling)

for constant currents >500mA



dimensions (common plus, remote ceiling)

common minus connector:

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

electrical data:

supply voltage V _{in}	12VDC-48VDC						
max. input current I _{inmax}	350/500mA 700mA 1000r						
max. output current I _{led}	350/500mA	1000mA					
output voltage range V _{led}	3V-45V (at 48V supply)						
control input	DALI						
	SwitchDim2						
current consumption DALI	2mA						
number of DALI-addresses	operating mode DT8, Dim2Warm: 1						
number of DALI-addresses	operating mode Balance&Dim: 2						
standby power consumption (12V)	180 mW						

technical data:

power on behaviour	configurable via DALI: 0%-100% or last value					
storage and transportation temp.	-20°C bis +75°C					
operational ambient temperature	-20°C bis +60°C					
expected lifetime	>100000h (at Tc<75°C)					
protection class	IP20					
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²					
dimensions (LxWxH)	120mmx30mmx22mm 120mmx41mmx22mm					
housing/mounting	remote ceiling					

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

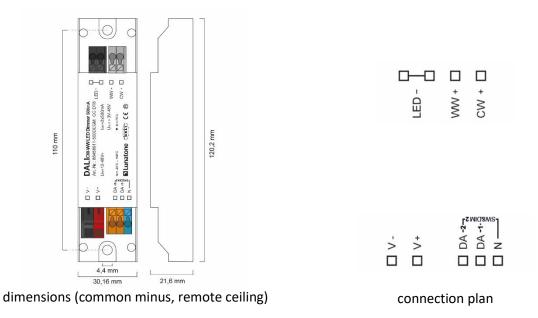
+ MM

÷

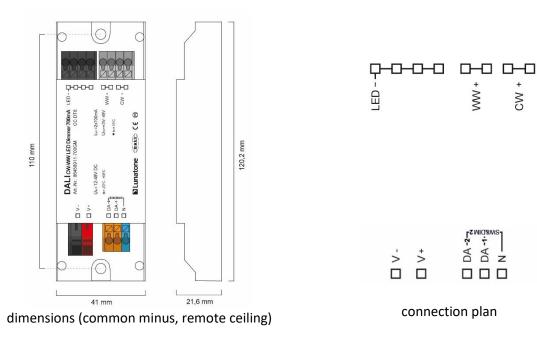
P D A

CW

for constant currents up to 500mA (on request up to 700mA):



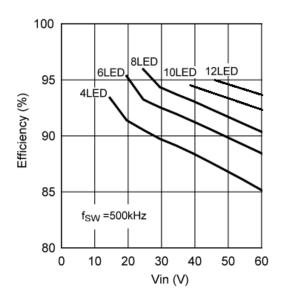
for constant currents > 500mA:



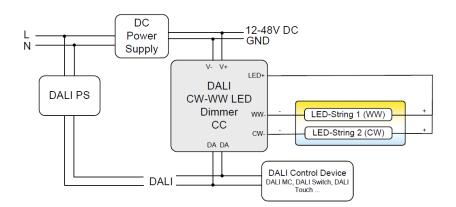


Hint: For highest efficiency the input voltage should range between 3V and 10V above the LEDvoltage:

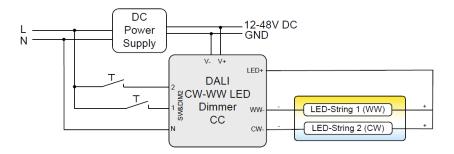
4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V



DALI (common plus connector type):



SwitchDim2 (common plus connector type):



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

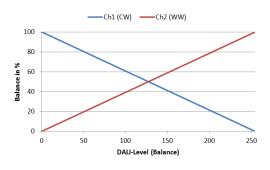
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

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

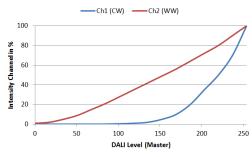
DALI-address 2, SwD2: balance

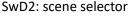


Dim2Warm

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

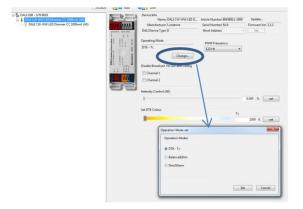




Selection of operating mode

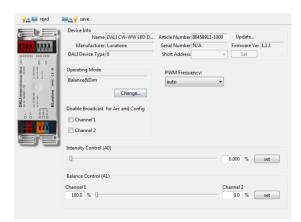
With the help of the PC-software tool DALI-Cockpit the operating mode can be easily set on the general settings page.

Operating mode DT8-Tc:

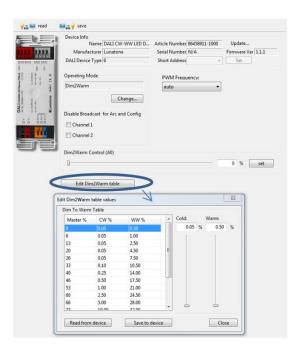


In addition, on the same page the PWMfrequency can be selected and basic control elements for testing each operating modes are available (DT8: slider for level and colour temperature, Balance&Dim: slider for level and balance, Dim2Warm: slider for input value adaption and Edit-Function for the Dim2Warm-table).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

Operating Mode Balance&Dim:



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:



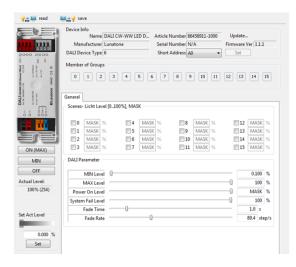
Settings in the operating mode DT8-Tc (displayed parameters are the factory default values):

	Devic		me	ALLOW	ww	LED D	Artic	e Nu	mber 864	58911	-1000	Updat	te		
122 1222	м			unatone					mber N/			Firmwa		11	
		Device T							dress A0		-	Set			
000 0000	erner i	bence i	Jpelo				5116		aness no	2					
111.0	Memi	ber of Gr	oups												
	0	1	2	3	4	5	6		8 9	10	11	12 1	3 14	15	
ALAN MANAGER	DT8 - 1	Tc .													
	Scene	Light Ler	els [0.	. 100%],	MAS	K, Colour	tempera	ture (3003K-64	93K)	Tc Lim	its			
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	MASK	%	6535	٩K	8	MASK	%	4016	ĸ	Physic	al Warmes	st:	3003	٩K
	V 1	MASK	%	6060	٩K	9	MASK	%	3831	۹K			-0	_	
	2	MASK	%	5649	٩K	10	MASK	%	3663	ĸ	Physic	al Coolest	:	6493	
ON (MAX)	3	MASK	%	5291	۹K	11	MASK	%	3508	۹K	******			-0-	
	4	MASK	%	4975	°K	12	MASK	%	3367	۹K	Tc Wa	rmest:		3003	٩K
MIN	5	MASK	%	4694	٩K	13	MASK	%	3236	۹K			0	_	
OFF	6	MASK	%	4444	٩K	14	MASK	%	3115	۹K	Tc Coo	olest:		6493	°K
ctual Level:	7	MASK	%	4219	٩K	15	MASK	%	3003	٩K	,			-0-	-
100% (254)	DALI	Paramete	er -												
ctual Colour:	-	MIN	Level	0								— î	0.100	%	
4115°K	1	MAX	Level	-	-							-0	100.00	%	
et Act Level	P	ower On	Level	-								-0 [MASK	%	
	1	Power	On Tc	8	Þ	IASK K									
0.000 %	Sy	stem Fail	Level	-								-0 [100.00	%	
Set	Î	System F	al Tc	0	Ņ	IASK %									
olour Temperature		Fade	time		0							- 1	1.0	s	
	i –	Fade	rate	-	-	- i	0					— î	89.4	step	/s
3003 °K															
3003 K	-	Tc Ste	oSize		3										

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 DALIparameters. In Balance&Dim operating mode all values assigned to channel 2 are representing the balance.

Factory Default Settings

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

operating mode	DT8
SwitchDim2	SwD1: level
	SwD2: colour temperature
Min Level	0.1%
PowerOn	MASK (last value)
Level	
Fade Time	2 (1s)
Fade Rate	5 (89.4 steps/s)
Tc-Stepsize	3 increments
PWM-	122Hz
frequency	
Groups before	GO
intial	(or G0 and G1 in operating
addressing:	mode Balance&Dim)
Predefined	Ø MASK % 6535 % Ø 8 MASK % 4016 %
	I MASK % 6060 %
Scene Values:	☑ 2 MASK % 5649 % ☑ 10 MASK % 3663 %
	♥ 3 MASK % 5291 ♥ ♥ 11 MASK % 3508 % ♥ 4 MASK % 4975 % ♥ 12 MASK % 3563 %
	12 MASK % 3307 K
	▼ 5 MASK % 4694 % ▼ 13 MASK % 3236 % ▼ 6 MASK % 4444 % ▼ 14 MASK % 3115 %
	▼ 7 MASK % 4219 % ▼ 15 MASK % 3003 %

Purchase Order Information

Art.Nr. 86458911-xxx: DALI CW-WW LED Dimmer, CC – constant current xxxmA, common plus connector, supply 12V-48V DC, output voltage range: 3V-45V, 100mA -500mA, back box

Art.Nr. 86458911-xxxDE: DALI CW-WW LED Dimmer, CC – constant current xxxmA, common plus connector, supply 12V-48V DC, output voltage range: 3V-45V, SwitchDim2, 100mA-500mA, remote ceiling & integration in luminaires

Art.Nr. 86458911-xxx: DALI CW-WW LED Dimmer, CC – constant current xxxmA, common plus connector, supply 12V-48V DC, output voltage range: 3V-45V, SwitchDim2, 500mA -1000mA, remote ceiling & integration in luminaires

Art.Nr. 86458911-xxxGMDE: DALI CW-WW LED Dimmer, CC – constant current xxxmA,

common minus connector, supply 12V-48V DC, output voltage range: 3V-45V, SwitchDim2, 100mA-500mA, remote ceiling & integration in luminaires

Art.Nr. 86458911-xxxGM: DALI CW-WW LED Dimmer, CC – constant current xxxmA, common minus connector, supply 12V-48V DC, output voltage range: 3V-45V, SwitchDim2, 500mA -1400mA, remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals https://jumitech/produkter

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

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk





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

JUMITECH

DALI 4Ch LED Dimmer CC

Datenblatt Control Gear

4-channel LED Dimmer (CC, DT6)

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

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



DALI 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)

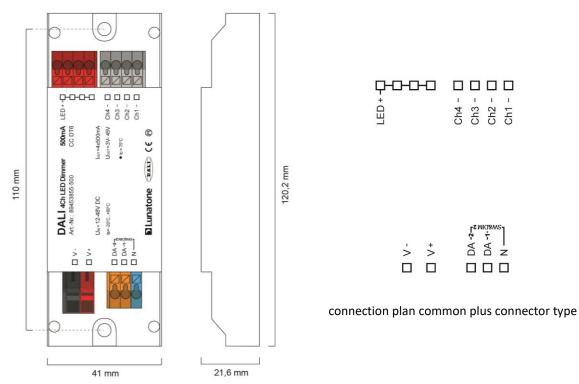
- types with common plus connector with constant currents up to 500mA
- types with common minus connector with constant currents up to 500mA
- suitable for integration in luminaires and remote ceiling
- supply voltage 12V to 48V DC
- output voltage up to 45VDC
- short ciruit protection
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

Specification, Characteristics

common plus connector:

type	DALI 4Ch 350mA GP	DALI 4Ch 500mA GP		
article number	89453855-350	89453855-500		
electrical data:				
supply voltage V _{in}	12VDC-4	48VDC		
max. input current l _{inmax}	1400mA	2000mA		
max. output current per channel I _{led}	350mA	500mA		
output voltage range V _{led}	3V-45V (at 4	8V supply)		
control input	DALI / SwitchDim2	2 (mains voltage)		
current consumption DALI	2mA			
number of DALI-addresses		mode DT6: 4 de Colour&Dim: 2		
standby power consumption (12V)	~ 180	mW		
technical data:				
power on behaviour	configurable via DALI: (0%-100% or last value		
ambient temperature	-20°C to	+60°C		
expected lifetime	>100000h (at Tc<=75°C)			
protection class	IP20			
max. connecting wire cross section	up to 1.5 mm ² , supply (\	/+, V-): up to 2.5 mm ²		
dimensions (LxWxH)	120mmx41n	1mx22 mm		
housing/mounting	remote	ceiling		

on request: output currents from 100mA to 500mA available



dimensions common plus connector type

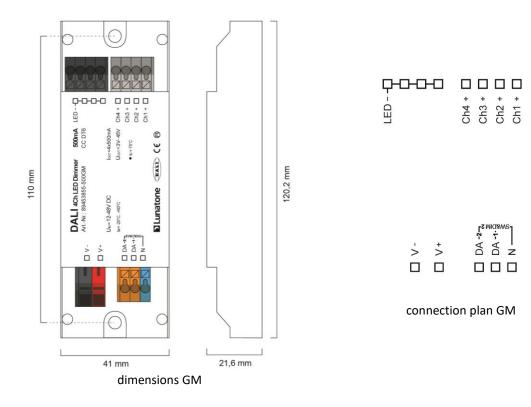
common minus connector:

type	DALI 4Ch 350mA GM	DALI 4Ch 500mA GM	DALI 4Ch 700mA GM				
article number	89453855-350GM	89453855-500GM	89453855-700GM				
electrical data:							
supply voltage Vin	12VDC-48VDC						
max. input current linmax	1400mA	2000mA	2800mA				
max. output current per channel I_{led}	350mA	500mA	700mA				
output voltage range V _{led}		3V-45V (at 48V supply)	·				
control input	S	DALI witchDim2 (mains voltag	e)				
current consumption DALI	2mA						
number of DALI-addresses	operating mode DT6: 4 operating mode Colour&Dim: 2						
standby power consumption (12V)		~ 180mW					
technical data:							
power on behaviour	configura	ble via DALI: 0%-100% or	last value				
ambient temperature		-20°C to +60°C					
expected lifetime	>100000h (at Tc<=75°C)						
protection class		IP20					
max. connecting wire cross section	up to 1.5 n	nm², supply (V+, V-): up	to 2.5 mm ²				
dimensions (LxWxH)		120mmx41mmx22 mm					

2018/08/09

housing/mounting	remote ceiling

on request: output currents from 100mA to 700mA available

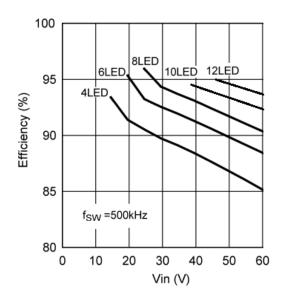




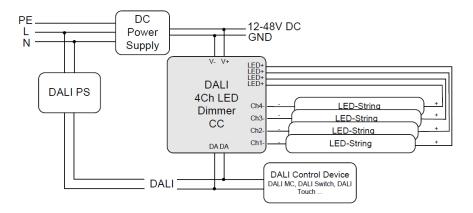
Hint:

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

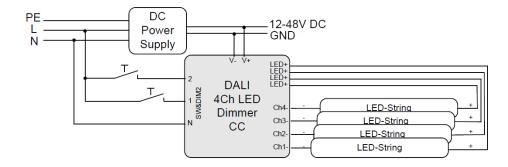
4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V



DALI (common plus connector type):



SwitchDim2 (common plus connector type):



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

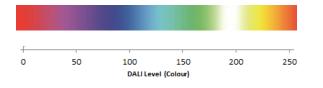
This operating mode is suitable for operating RGBW—luminaires. Two DALI-addresses are used, the first to control the light level and the second for changing the distribution on the output channels (e.g. for colour adjustments).

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 mode.

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

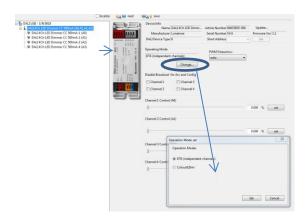
DALI-address 2, SwD2: colour



Selection of operating mode

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

Operating mode DT6:



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

Operating mode Colour&Dim:

😪 📰 read	🔤 🚓 💡 save		
Contraction of the second seco	Control (A) Control (A)	Article Number 89453855-500 Serial Number N/A Short Address PWM Frequency: auto	Update Firmware Ver 11 Set
	0		0.000 % set
	Colour Control (A1)		0 set

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

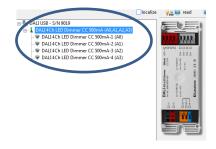
Operating Mode:

Number	Operating Mode
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, in screenshot factory defaults are shown):

	Manufactu	rer Lunato	Ch LED Dim	Serial	Number 8945 Number N/A	3855-500	Update. Firmware		
00 0000	DALI Device Type 6			Short	Short Address A0 🗸			Set	
Monomi Monomi	Member of Gro	2 3	4 5	6 7	89	10 11	12 13	14 15	
un querco mercino	General								
	Scenes- Licht	Level [010	0%], MASK						
	0 MAS	K %	4	MASK %	8	AASK %	III 12	MASK %	
	1 MAS	K %	5	MASK %	E 9 1	AASK %	13	MASK %	
	2 MAS	K %	6	MASK %	il 10	MASK %	1 4	MASK %	
ON (MAX)	3 MAS	K %	7	MASK %	11	MASK %	III 15	MASK %	
MIN	DALI Paramet	er							
OFF	MINL	evel ()						0.100 %	
ual Level:	MAX L						-0 -	100 %	
100% (254)	Power On L	evel					-0	MASK %	
	System Fail L	evel					-0	100 %	
	Fade T	ime	0					1.0 s	
Act Level	Fade	Rate		0				89.4 step/s	

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

Factory Default Settings

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

Summary of the factory default settings (delivery state):

Operating mode	DT6
SwitchDim2	SwD1: light level
	SwD2: scene selector
Min Level	0.1%
PowerOn	MASK (last value)
Level	
Fade Time	2 (1s)
Fade Rate	5 (89.4 steps/s)
PWM-	122Hz
frequency	
Groups	G0 – channel1
before	G1 – channel2

intial	G2 – c	hanne	el3		
addressing:	G3 – channel4				
predefined	Scene	Ch1	Ch2	Ch3	Ch4
•	0	100%	0%	0%	0%
scene	1	0%	100%	0%	0%
values:	2	0%	0%	100%	0%
Varuest	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. 89453855-xxx: DALI 4Ch LED Dimmer,
CC – constant current xxx mA (100mA500mA), common plus connector, supply 12V48V 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

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

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

Contact

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www.jumitech.dk





Disclaimer

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

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

JUMITECH

DALI 3Ch LED Dimmer CC

Datasheet

Control Gear

3-channel LED Dimmer (CC, DT6)

common plus connector: Art. Nr. 89453846-350 (350mA) Art. Nr. 89453846-500 (500mA)

common minus connector: Art. Nr. 89453846-350GM (350mA) Art. Nr. 89453846-500GM (500mA) Art. Nr. 89453846-700GM (700mA)



DALI 3Ch LED Dimmer CC Control Gear

Overview

- 3 channel DALI LED-Dimmer
- suitable for constant current LEDmodules
- **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)

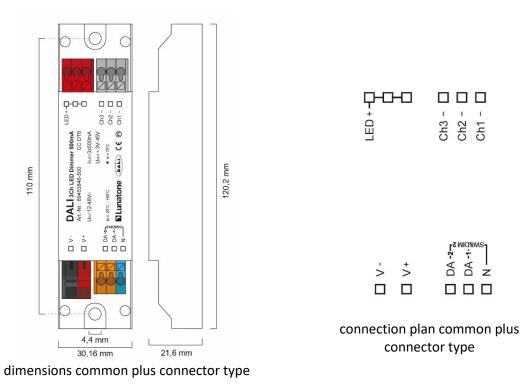
- types with common plus connector with constant currents up to 500mA
- types with common minus connector with constant currents up to 700mA
- suitable for integration in luminaires and remote ceiling
- supply voltage 12V to 48V DC
- output voltage up to 45VDC
- short ciruit protection
- low standby power consumption
- high efficiency
- configuration via PC-software DALI-Cockpit and DALI USB-interface
- user-friendly factory default settings

Specification, Characteristics

common plus connector:

type	DALI 3Ch 350mA GP	DALI 3Ch 500mA GP		
article number	89453846-350	89453846-500		
electrical data:				
supply voltage V _{in}	12VDC-48VDC			
max. input current l _{inmax}	1050mA 1500m			
max. output current per channel I _{led}	350mA	500mA		
output voltage range V _{led}	3V-45V (at 48V supply)			
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)	~ 180mW			
technical data:				
power on behaviour	configurable via DALI: 0%-100% or last value			
ambient temperature	-20°C to +60°C			
expected lifetime	>100000h (at Tc<=75°C)			
protection class	IP20			
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²			
dimensions (LxWxH)	120mmx30mmx22 mm			
housing/mounting	remote ceiling			

on request: output currents from 100mA to 500mA available



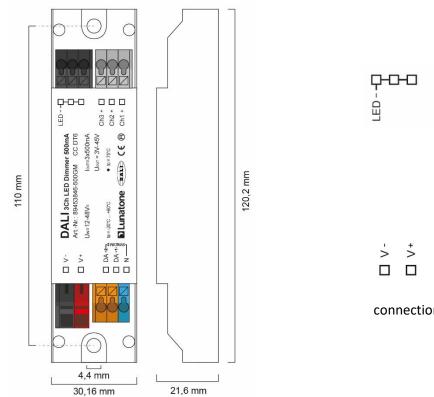
common minus connector:

type	DALI 3Ch 350mA GM	DALI 3Ch 500mA GM	DALI 3Ch 700mA GM			
article number	89453846-350GM	89453846-500GM	89453846-700GM			
electrical data:						
supply voltage V _{in}		12VDC-48VDC				
max. input current I _{inmax}	1050mA	1500mA	2100mA			
max. output current per channel I _{led}	350mA	500mA	700mA			
output voltage range V _{led}		3V-45V (at 48V supply)				
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)		~ 180mW				
technical data:						
power on behaviour	Configura	ble via DALI: 0%-100% or	r last value			
ambient temperature		-20°C to +60°C				
expected lifetime	>100000h (at Tc<=75°C)					
protection class		IP20				
max. connecting wire cross section	up to 1.5 n	nm ² , supply (V+, V-): up	to 2.5 mm ²			
dimensions (LxWxH)		120mmx30mmx22 mm				
housing/mounting		remote ceiling				

Ch3 + Ch2 + Ch1 +

DA -- N

on request: output currents from 100mA to 700mA available





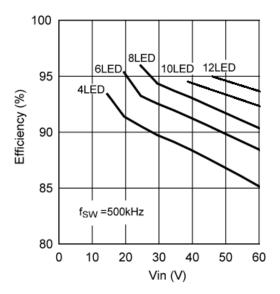


Hint:

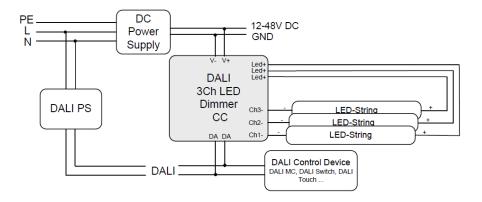
For highest efficiency the input voltage should range between 3V and 10V above the LED-voltage:

dimensions GM

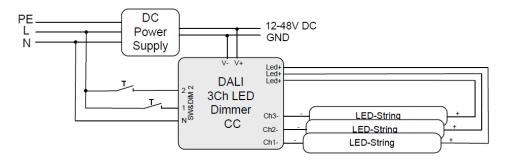
4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V



DALI (common plus connector type):



SwitchDim2 (common plus connector type):



Operating Modes

The device offers several operating modes:

DT6 (factory default)

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

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

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

Colour&Dim

This operating mode is suitable for operating RGB—luminaires. Two DALI-addresses are used, the first to control the light level and the

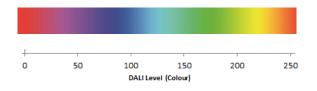
second for changing the distribution on the output channels (e.g. for colour adjustments).

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

Can be operated via DALI or SwitchDim2:

DALI-address 1, SwD1: light level

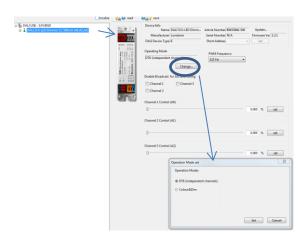
DALI-address 2, SwD2: colour



Selection of operating mode

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

Operating mode DT6:



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

Operating mode Colour&Dim:

	Device Info Name DALI 3Ch LED Dimm Manufacturer Lunatone DALI Device Type 6	Article Number Serial Number Short Address		Update Firmware Ver Set	1.2.1
0.0 ML Ion tradition and a large of the second seco	Operating Mode Colour&Dim Change Disable Broadcast for Arc and Config Channel 1 Channel 3 Channel 2	PWM Frequer	• • • • •		
	Intensity Control (A0)			0.000 %	set
	Colour Control (A1)			0	set

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

Operating Mode:

Number	Operating Mode
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, in screenshot factory defaults are shown):

📸 🛄 read	🛄 🚓 💡 save	
		Jpdate mware Ver 1.2.1 Set
D Dimenser Relation 10 - 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Member of Groups 0 1 2 3 4 5 6 7 8 9 10 11 12	13 14 15
DV: DALLScuttom	GeneralScenes- Licht Level [0.:100%], MASK	
	0 MASK % 4 MASK % 8 MASK % 1 MASK % 5 MASK % 9 MASK % 2 MASK % 10 MASK % 10 MASK % 3 MASK % 7 MASK % 11 MASK %	12 MASK % 13 MASK % 14 MASK % 15 MASK %
MIN	DALI Parameter	
OFF ual Level:	MIN Level 0 MAX Level	0.100 %
100% (254)	Power On Level	MASK %
	System Fail Level	
Act Level	Fade Time	1.0 s 89.4 step/s

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

Factory Default Settings

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

Summary of the factory default settings (delivery state):

Operating mode	DT6						
SwitchDim	SwD1: light level						
2	SwD2: s	SwD2: scene selector					
Min Level	0.1%	0.1%					
PowerOn	MASK (MASK (last value)					
Level		, , , , , , , , , , , , , , , , , , ,					
Fade Time	2 (1s)	2 (1s)					
Fade Rate	5 (89.4	5 (89.4 steps/s)					
PWM-	122Hz						
frequency							
Groups	G0 – ch	annel1					
before	G1 – ch	annel2					
intial	G2 – ch	G2 – channel3					
addressing:							
predefined	Scen	Ch1	Ch2	Ch3			
scene	е						
values	0, 8	100 %	0%	0%			
	1, 9	0%	100	0%			
			%				
	2, 10	0%	0%	100			
		0.01	100	%			
	3, 11	0%	100	100			
	4,12	100	% 0%	% 100			
	4,12	%	0%	%			
	5, 13	100	100	0%			
	0, 20	%	%	2.0			
	6, 14	100	100	100			
		%	%	%			
	7, 15	0%	0%	0%			

Purchase Order Information

Art.Nr. 89453846-xxx: DALI 3Ch LED Dimmer,
CC – constant current xxx mA (100mA500mA), common plus connector, supply 12V48V DC, output voltage range 3V-45V DC,
SwitchDim2, remote ceiling & integration in luminaires

Art.Nr. 89453846-xxxGM: DALI 3Ch 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

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

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

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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 2Ch LED Dimmer CC

Datasheet

Control Gear



common plus connector: Art. Nr. 89453845-350 (350mA) Art.Nr. 89453845-350DE (350mA) Art. Nr. 89453845-500 (500mA) Art. Nr. 89453845-500DE (500mA) Art. Nr. 89453845-700 (700mA) Art. Nr. 89453845-1000 (1000mA)

common minus connector: Art.Nr. 89453845-350GMDE (350mA) Art.Nr. 89453845-500GMDE (500mA) Art. Nr. 89453845-700GM (700mA) Art. Nr. 89453845-1000GM (1000mA)



DALI 2Ch LED-Dimmer CC Control Gear

Overview

- 2 channel DALI LED-Dimmer
- suitable for constant current LEDmodules
- **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)
- 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 USB-interface
- user-friendly factory default settings

Specification, Characteristics

common plus connector:

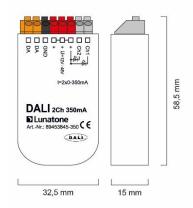
type	DALI 2Ch CC	DALI 2Ch CC	DALI 2CH CC	DALI 2Ch CC
	350/500mA	350/500mA DE	700mA	1000mA
article number	89453845-350/ 89453845-500	89453845- 350DE/500DE	89453845- 700	89453845-1000

		12//DC 4	01/02				
supply voltage V _{in}	12VDC-48VDC						
max. input current I _{inmax}	700/1000 mA	700/1000 mA 700/1000mA 1400mA 2000mA					
max. output current per channel I _{led}	350/500 mA	350/500mA	700mA	1000mA			
output voltage range V _{led}	3V-45V (at 48V supply)						
control input	DALI DALI						
control input	SwitchDim2						
current consumption DALI	2mA						
number of DALI-addresses	operating mode DT6, Balance&Dim: 2						
	operating mode Dim2Warm: 1						
standby power consumption (12V)		~ 180 mW					

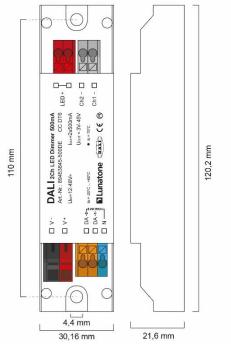
type	DALI 2Ch CC 350/500mA	DALI 2Ch CC 350/500mA DE	DALI 2CH CC 700mA	DALI 2Ch CC 1000mA		
technical data:						
power on behaviour	conf	configurable via DALI: 0%-100% or last value				
storage and transportation temperature		-20°C to +75°C				
operational ambient temperature	-20°C to +60°C					
expected lifetime	>100000h at Tc<75°C					
protection class		IP20				
max. connecting wire cross section	up to 1.5 mm ²	supply	up to 1.5 mm ² , (V+, V-): up to 2	.5 mm²		
dimensions (LxWxH)	59mmx33mmx1 5mm	120mmx30mmx 22mm	120mmx4	1mmx22mm		
housing/mounting	back box		remote ceiling			

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

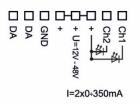
for constant currents up to 500mA:



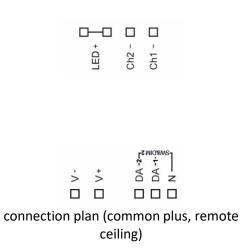
dimensions (common plus, back box)







connection plan (common plus, back box)

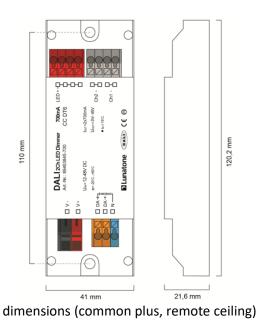


2018/08/09

Ch1

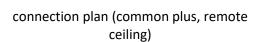
Ch2

for constant currents >500mA



 $\phi - \phi - \phi - \phi$

LED +



common minus connector:

type	DALI 2CH CC	DALI 2CH CC	DALI 2Ch CC 1000mA
	350/500mA GMDE	700mA GM	GM
article number	89453845- 350GMDE/500GMDE	89453845-700GM	89453845-1000GM

electrical data:

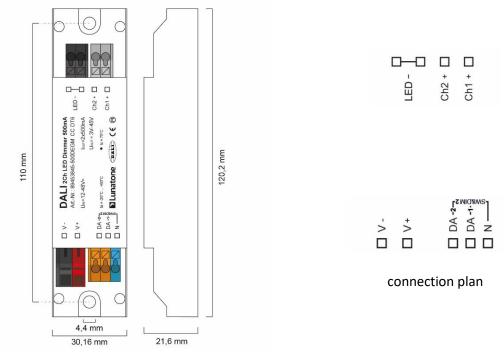
supply voltage V _{in}	12VDC-48VDC					
max. input current I _{inmax}	700/1000mA 1400mA 2000mA					
max. output current /channel I _{led}	350/500mA	700mA	1000mA			
output voltage range V _{led}	3V-45V (at 48V supply)					
control input	DALI SwitchDim2					
current consumption DALI	2mA					
number of DALI-addresses	operating mode DT6, Balance&Dim: 2 operating mode Dim2Warm: 1					
standby power consumption (12V)	~ 180 mW					

technical data:

power on behaviour	configurable via DALI: 0%-100% or last value			
storage and transportation temperature	-20°C to +75°C			
operational ambient temperature	-20°C to +60°C			
expected lifetime	>100000h (at Tc<75°C)			
protection class	IP20			
max. connecting wire cross section	up to 1.5 mm ² , supply (V+, V-): up to 2.5 mm ²			
dimensions (LxWxH)	120mm x30mmx22mm 120mm x 41mm x 22mm			
housing/mounting	remote ceiling			

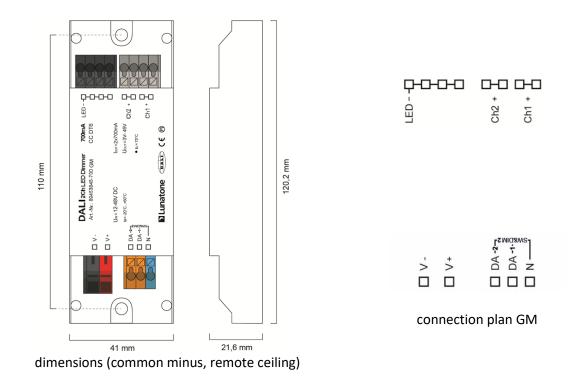
on request: output currents from 100mA to 1400mA available

for constant currents up to 500mA (700mA on request):



dimensions (common minus, remote ceiling)

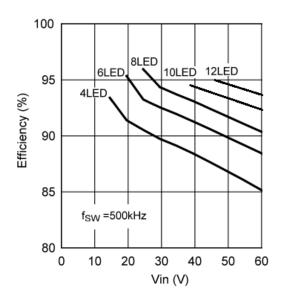




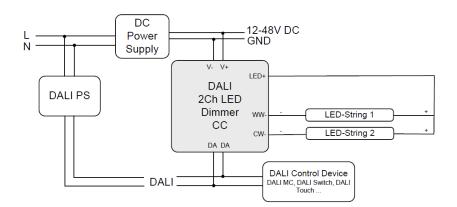


Hint: For highest efficiency the input voltage should range between 3V and 10V above the LEDvoltage:

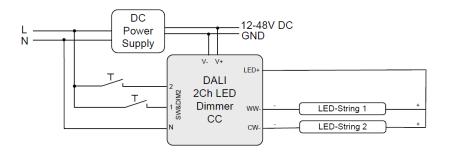
4-6 LEDs: 24V 6-9LEDs: 36V 10-12 LEDS: 48V



DALI (common plus connector type):



SwitchDim2 (common plus connector type):



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

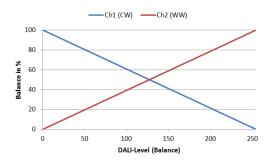
This operating mode is also suitable for operating tunable white luminaires using two DALI-addresses. The first controls the light level and the second is used for changing the distribution on the output channels (e.g. for tunable white applications or balancing direct/indirect lighting).

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

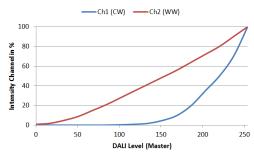
DALI-address 2, SwD2: balance



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

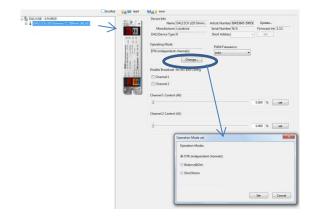


SwD2: scene selector

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

Operating Mode Balance&Dim:

	e DALI 2Ch LED Dimm er Lunatone le 6	Article Number 8945384 Serial Number N/A Short Address	-500DE	Update Firmware Ver Set	1.3.1
Channel 1 Channel 2 Intensity Contro	Change t for Arc and Config	PWM Frequency:	T		
Balance Control Channel 1 100.0 %	(A1)			annel 2	set set

Operating Mode Dim2Warm:

	Device In								
		Name DAL	2Ch LED Dimm	Article Number	8943	53845-500DI		Update	
L	Mani	ufacturer Luna	itone	Serial Number	N/A		F	irmware Ve	1.3.
	DALI Dev	vice Type 6		Short Address				Set	
L	Operating	g Mode		PWM Freque	nor				
	Dim2Wa	rm		auto		•			
			Change						
	Disable Br	roadcast for A nel 1	rc and Config						
	Chan	nel 2							
	Dim2Wan	m Control (A0)							
	0							0 %	set
	Edit	Dim2Warm ta	ble					0 %	set
	Edit	Dim2Warm ta dit Dim2Warm Dim To Warr	table values					0 %	set X
	Edit	dit Dim2Warm Dim To Warn	n table values n Table	WW %		Cold:		0 %	
	Edit	dit Dim2Warm Dim To Warr Master %	n table values n Table CW %	WW %			%		x
	Edit	dit Dim2Warm Dim To Warr Master % 0	n table values n Table CW % 0.05	0.50	Î	Cold: 0.05	%	Warm:	
	Edit	dit Dim2Warm Dim To Warn Master % 0 6	n table values n Table CW % 0.05 0.05	0.50	*		%	Warm:	x
	Edit	dit Dim2Warm Dim To Warn Master % 0 6 13	a table values n Table CW % 0.05 0.05 0.05	0.50 1.00 2.50	A		%	Warm:	x
	Edit	dit Dim2Warm Dim To Warn Master % 0 6	n table values n Table CW % 0.05 0.05	0.50			%	Warm:	x
	Edit	dit Dim2Warm Dim To Warn Master % 0 6 13 20	a table values n Table CW % 0.05 0.05 0.05 0.05 0.05	0.50 1.00 2.50 4.50			%	Warm:	x
	Edit	dit Dim2Warm Dim To Warr Master % 0 6 13 20 26	n Table values n Table CW % 0.05 0.05 0.05 0.05 0.05 0.05	0.50 1.00 2.50 4.50 7.50			%	Warm:	x
	Edit	dit Dim2Warm Dim To Warr Master % 0 6 13 20 26 33	a table values n Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.10	0.50 1.00 2.50 4.50 7.50 10.50			%	Warm:	x
	Edit	dit Dim2Warm Dim To Warn Master % 0 6 13 20 26 33 40	n Table CW % 0.05 0.05 0.05 0.05 0.05 0.10 0.25	0.50 1.00 2.50 4.50 7.50 10.50 14.00			%	Warm:	x
	Edit	dit Dim2Warm Dim To Warr Master % 6 13 20 26 33 40 46	n Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.10 0.25 0.50	0.50 1.00 2.50 4.50 7.50 10.50 14.00 17.50			%	Warm:	x
	Edit	dit Dim2Warm Dim To Warr Master % 0 6 13 20 26 33 40 46 53	n Table CW % 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.10 0.25 0.50 1.00	0.50 1.00 2.50 4.50 7.50 10.50 14.00 17.50 21.00			%	Warm:	x

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

Operating Mode:

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

Additional Settings

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

Component Tree:



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

-	Device Info				
0-0-0			icle Number 89453845-500D8		
22 22	Manufacturer Lunator	ne Se	rial Number N/A	Firmware V	er 1.3.1
	DALI Device Type 6	SI	hort Address A0 🔹	Set	
9 8 8	Member of Groups				
LID Dimmer Monak IAB-DODIC CO COR IAB-DADDOM IAB-DA	0 1 2 3	4 5 6	7 8 9 10 11	12 13	14 15
DALI Porte de la compacta de la comp	General				
	Scenes- Licht Level [010	9%], MASK			
	0 MASK %	4 MASK %	8 MASK %	12	MASK %
	1 MASK %	5 MASK %	9 MASK %	13	MASK %
	2 MASK %	6 MASK %	10 MASK %	14	MASK %
ON (MAX)	3 MASK %	7 MASK %	11 MASK %	15	MASK %
MIN	DALI Parameter				
OFF	MIN Level				0.100 %
Actual Level:	MAX Level			-0	100 %
100% (254)	Power On Level				MASK %
	System Fail Level			-0	100 %
	Fade Time	0			1.0 s
et Act Level	Fade Rate	0			89.4 step/s
0.000 %	PWM Frequency:				
Set					
	Disable Broadcast for Ar	c and Config Comm	ands		

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

Factory Default Settings

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

Summary of the factory default settings (delivery state):

operating mode	DT6			
SwitchDim2	SwD1: light l	SwD1: light level		
	SwD2: scene	selecto	r	
Min Level	0.1%			
PowerOn Level	MASK (last v	alue)		
Fade Time	2 (1s)			
Fade Rate	5 (89.4 steps	/s)		
PWM-	122Hz			
frequency				
Groups before	G0 – channe	0		
intial	G1 – channe	1		
addressing				
predefined	Scene	Ch1	Ch2	
scene values	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. 89453845-xxx: DALI 2Ch LED Dimmer, CC – constant current xxxmA, common plus connector, supply 12V-48V DC, output voltage range 3V-45V, 100mA -500mA, back box Art.Nr. 89453845-xxxDE: DALI 2Ch LED Dimmer, CC – constant current xxxmA, common plus connector, supply 12V-48V DC, output voltage range 3V-45V, SwitchDim2, 100mA-500mA, remote ceiling & integration in luminaires

Art.Nr. 89453845-xxx: DALI 2Ch LED Dimmer, CC – constant current xxxmA, common plus connector, supply 12V-48V DC, output voltage range 3V-45V, SwitchDim2, 500mA -1000mA, , remote ceiling & integration in luminaires

Art.Nr. 89453845-xxxGMDE: DALI 2Ch LED Dimmer, CC – constant current xxxmA, common minus connector, supply 12V-48V DC, output voltage range 3V-45V, SwitchDim2, 100mA-500mA, , remote ceiling & integration in luminaires

Art.Nr. 89453845-xxxGM: DALI 2Ch LED Dimmer, CC – constant current xxxmA, common minus connector, supply 12V-48V DC, output voltage range 3V-45V, SwitchDim2, 500mA -1400mA, , remote ceiling & integration in luminaires

Additional Information

Datasheets and manuals https://jumitech/produkter

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

Contact

Technical Support: support@jumitech.dk

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Disclaimer

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

JUMITECH

DALI

1Ch LED Dimmer CC

Datasheet Control Gear

1-channel LED Dimmer (CC, DT6)

Art. Nr. 89453844-350 (350mA) Art. Nr. 89453844-500 (500mA) Art. Nr. 89453844-700 (700mA) Art. Nr. 89453844-700DE (700mA) Art. Nr. 89453844-1000DE (1000mA) Art. Nr. 89453844-1500DE (1500mA) Art. Nr. 89453844-2000DE (2000mA) Art. Nr. 89453844-2500DE (2500mA)



DALI 1Ch LED Dimmer CC Control Gear

Overview

- 1 channel DALI LED-Dimmer
- suitable for constant current LEDmodules
- SwitchDim2: 2 switch-inputs offer control of light level and colour 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)
- types for constant currents of 350mA to 2800mA

- 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 USB-interface
- user-friendly factory default settings

Specification, Characteristics

type	DALI 1Ch LED-Dimmer CC		
article number	89453844-350 89453844-500 89453844-700	89453844-700DE 89453844-1000DE 89453844-1500DE	89453844-2000DE 89453844-2500DE

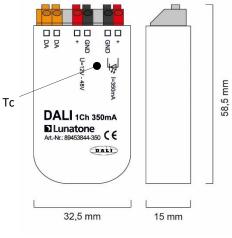
electrical data:

electrical data.			
supply voltage V _{in}	12VDC-48VDC		
max. input current I _{inmax}	350mA / 500mA / 700mA	700mA/1000mA/1500mA	2000mA/2500mA
max. output current per channel l _{led}	350mA / 500mA / 700mA	700mA/1000mA/1500mA	2000mA/2500mA
output voltage range V _{led}	3V-45V (at 48V supply)		
control input	DALI DALI SwitchDim2 / corridor function		
current consumption DALI		2mA	
number of DALI-addresses	1		
standby power consumption (12V)	180mW		

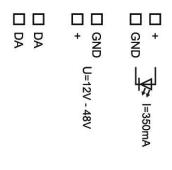
type		DALI 1Ch LED-Dimmer CO	2
article number	89453844-350 89453844-500 89453844-700	89453844-700DE 89453844-1000DE 89453844-1500DE	89453844-2000DE 89453844-2500DE

technical data:				
power on behaviour	configurable via DALI: 0%-100% or last value			
storing and transportation temperatue	-20°C +75°C			
operating ambient temperature Ta	-20°C +60°C			
expected lifetime	>100000h at Tc<75°C			
protection class		IP20		
max. connecting wire cross section	up to 1.5 mm ²	up to 1 supply (V+, V-)	.5 mm², : up to 2.5 mm²	
housing/mounting	back box remote ceiling		ceiling	
dimensions (LxWxH)	59mmx33mmx15mm	120mmx30mmx22mm	120mmx41mmx22mm	

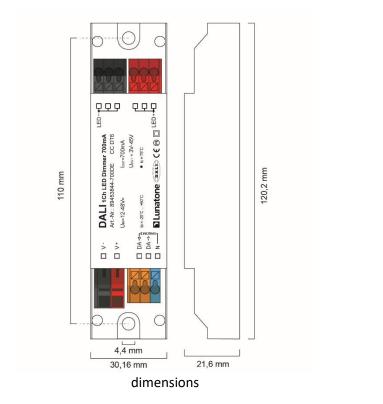
for constant currents up to 700mA (DALI):



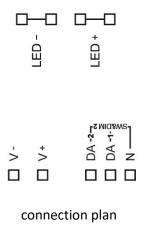
dimensions



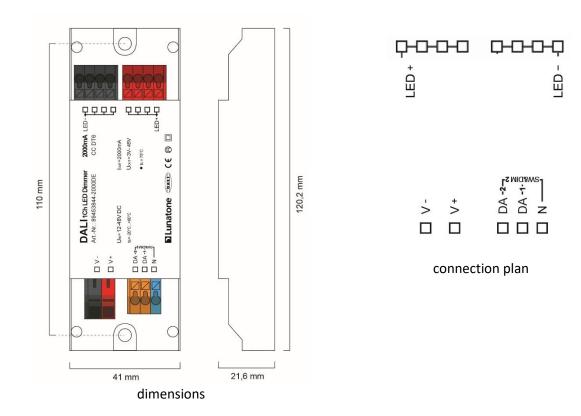
connection plan



for constant currents up to 1500mA (DALI&SwitchDim2):



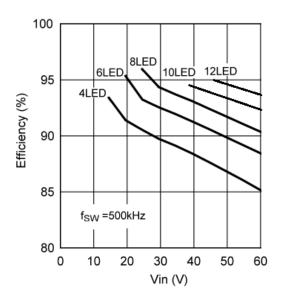
for constant currents from 1500mA (DALI&SwitchDim2):



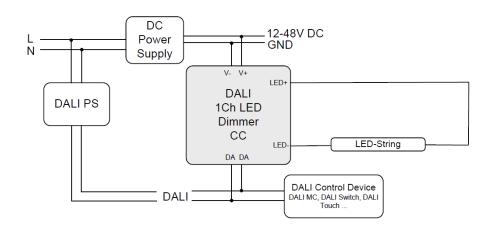


Hint: For highest efficiency the input voltage should range between 3V and 10V above the LEDvoltage:

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

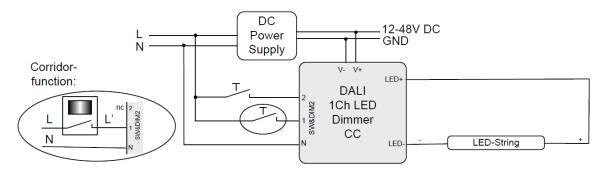


DALI:



SwitchDim2:

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



Operating Modes

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

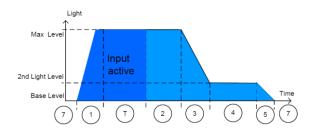
Alternatively the device can be controlled using 2 switch-inputs for mains voltage (SwitchDim2):

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

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

Corridor Function (up from FW 4.0)

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



sequence of corridor function

States and Default values of the corridor function:

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

2nd Light Level (4):	50%
Base Level (7):	0%

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):

💡 👪 💻 auslesen	💘 🚓 💡 speichern	
• • • • • • • • • • • • • • • • • • •	Device Info Artikelnummer Update Hestellel Lunatone Seriennummer Firmware DALI Device Type (6 Shon Address Firmware Gruppenzugehörigkeit 0 1 2 3 6 7 8 9 10 11 12 13	
	Allgemein Szenen- Lichtpegel (0.100%), MASK	
EIN (MAX)	Ø 100 % Ø/4 15.62 % Ø/8 2.44 % Ø/12 Ø/1 6.287 % Ø/5 9.82 % Ø/9 1.534 % Ø/13 Ø/2 39.52 % Ø/6 6.17 % Ø/10 0.964 % Ø/14 Ø/3 24.85 % Ø/7 3.88 % Ø/11 0.606 % Ø/15	0.381 % 0.240 % 0.151 % 0.000 %
MIN AUS Actual Level: 100% (254)	DALI Parameter MIN Level MXLevel Power On Level System Fail Level	0.100 % 100 % MASK % 100 %
Set Act Level	Fade Time	1.0 s 89.4 step/s
0.000 % ändernl	PWM Frequency: suto Disable Broadcast for Arc and Config Commands	

Factory Default Settings

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

operating mode	DT6		
SwitchDim2	SwD1: light level		
	SwD2: scene s	elector	
Min Level	0.1%		
	back box type	: 1%	
PowerOn Level	MASK (last va	lue)	
Fade Time	2 (1s)		
Fade Rate	5 (89.4 steps/	s)	
PWM-	122Hz		
frequency	back box type	: 976Hz	
Groups before	G0		
intial			
addressing			
scene values:	Scene 0: 254	Scene 8: 118	
	Scene 1: 237	Scene 9: 101	
	Scene 2: 220	Scene 10: 84	
	Scene 3: 203	Scene 11: 67	
	Scene 4: 186	Scene 12: 50	
	Scene 5: 169	Scene 13: 33	
	Scene 6: 152	Scene 14: 16	
	Scene 7: 135	Scene 15: 0	
back box type: all scene values set to M			

1500mA-2800mA on request), supply 12V-48V DC, output voltage: 3V-45V, SwitchDim2/Corridorfunction, remote ceiling & integration in luminaires;

Additional Information

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

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk

Purchase Order Information

Art.Nr. 89453844-350/500/700: DALI 1Ch LED Dimmer, CC – constant current 350/500/700mA (other currents from 100mA-700mA on request), supply 12V-48V DC,

Art.Nr. 89453844-700DE/1000DE/1500DE,

output voltage range 3V-45V, back box;

DALI 1Ch LED Dimmer, CC – constant current 700/1000/1500mA (other currents from 100mA-1500mA on request), supply 12V-48V DC, output voltage: 3V-45V, SwitchDim2/Corridorfunction, remote ceiling & integration in luminaires;

Art.Nr. 89453844-2000DE/2500DE, DALI 1Ch

LED Dimmer, CC – constant current 2000mA/2500mA (other currents from





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