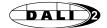


# DLunatone PHASE DIMMER, ACTUATORS & SIGNAL CONVERTERS



**Folder B** 

# DLunatone PHASE DIMMER, ACTUATORS & SIGNAL CONVERTERS

The following components play a central role in regulating, controlling and adapting signals. Their functions range from modulating electrical waves to converting signals into different

forms, making them crucial building blocks in a variety of applications. This makes it possible to integrate loads without a DALI connection into the DALI system.

#### **TABLE OF CONTENTS**

DALI-2 PD - DALI 230V phase dimmer	2
Relay modules RM8 / RM16	3
DALI-2 4Ch PD - 4 channel phase dimmer	4
DALI-2 4Ch E-RM - 4 channel electronic relay control	4
wDALI RM8 - wireless relay module	5
DALI 4Ch RC - 4 channel relay control	5
DALI Jalousie - 230VAC	6
DALI RM8 / RM16 0-10V - relay modules with 0-10V input	6

DALI RM8 / RM16 2×0-10V - for 2 devices with 0-10V	input 7
wDALI RM8 0/1-10V PWM - wireless relay module with	n 0/1-10V 7
DALI 0/1-10V - converting DALI to 0-10V, 1-10V or PV	VM 8
DALI Dim2warm - from DT6 commands to two DT6 s	ignals 9
DALI DT8 to DT6 - from DT8-Tc commands to two DT	F6 signals 9
1Ch LED Booster/Dimmer	10
Overview folder A-E	11



Folder B

### DALI-2 PD - DALI 230V phase dimmer

Phase dimmer with DALI control input for integrating 230V retrofit LED lights into a DALI system. DALI PD is available for leading edge, trailing edge or as universal device with automatic load detection.

The DALI-2 PD also supports the operating mode as a DALI controlled electronic switch.

DALI

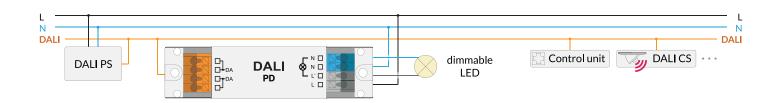
When installing many small LED lights, dimmed by a single DALI PD, the inrush current and power factor must be taken into account.

DALI PD is available as a compact 25W version or in the 300W version.





NAME	ARTICLE NUMBER	INPUT	OUTPUT	SUITABLE LOADS	LOAD RANGE	MODEL	DIMENSIONS (MM)
DALI-2 PD 25W universal dimmer	86458619-25U	DALI, 230V AC	230V AC	leading/trailing edge R,L,C	3 - 25W		
DALI-2 PD 25W trailing edge phase cut dimmer	86458619	DALI, 230V AC	230V AC	trailing edge R,C	3 - 25W	for flush-type installation – boxes	59 × 33 × 15
DALI-2 PD 25W leading edge phase cut dimmerr	86458618	DALI, 230V AC	230V AC	leading edge R,L	3 - 25W	- boxes	
DALI-2 PD 300W universal dimmer	86458619-300U-HS	DALI, 230V AC	230V AC	leading/trailing edge R,L,C	10 - 300W	for DIN rail	98 × 17,5 × 57
DALI-2 PD 300W universal dimmer	86458619-300U	DALI, 230V AC	230V AC	leading/trailing edge R,L,C	10 - 300W		
DALI-2 PD 300W trailing edge phase cut dimmer	86458619-300	DALI, 230V AC	230V AC	trailing edge R,C	10 - 300W	<ul> <li>with strain relief</li> <li>for suspended</li> <li>ceilings</li> </ul>	120 × 30 × 22
DALI-2 PD 300W leading edge phase cut dimmer	86458618-300	DALI, 230V AC	230V AC	leading edge R,L	10 - 300W	– cenngs	



### Relay modules RM8 / RM16

The DALI RM8 and DALI RM16 devices provide a relay contact that can be controlled via the DALI bus to switch continuous loads up to 2kW. Various compact designs as well as versions with normally open contacts or changeover contacts are available. Targeted switching in the voltage zero crossing protects the switching contact and increases the device lifetime.

DALI







The product range also includes versions with integrated inrush

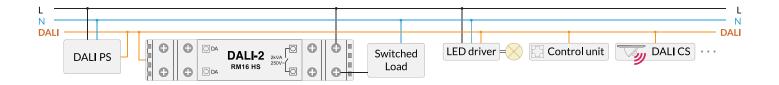
current limitation, these are suitable for applications with very

Power-up mode and system-failure settings can be configured

high inrush current peaks.

using the DALI Cockpit PC Software.

NAME	ARTICLE NUMBER	MAX. NOMINAL LOAD; CIRCUIT BREAKER	MAX. BREAKING CURRENT	MAX. CONTINUOUS CURRENT	TYPE OF RELAY CONTACT	MODEL	DIMENSIONS (MM)
DALI-2 RM8	86456944	1000VA; 6A max	12A	8A	1 normally open	for flush-type	59 × 33 × 15
DALI-2 RM16	86456203	1000VA; 6A max	12A	8A	1 changeover	installation boxes	09 ^ 00 ^ 10
DALI-2 RM16 DE	86456203-DE	2000VA; 12A max	25A	16A	1 normally open	with strain relief	120 × 30 × 22
DALI RM16 DE WE	86458629-DE-WE	2000VA; 12A max	25A	16A	1 changeover	for suspended ceilings	120 ^ 30 ^ 22
DALI RM16 Wieland connector	86458629-CEL	2000VA; 12A max	25A	16A	1 normally open	with Wieland connectors	85 × 62 × 18
DALI-2 RM8 DIN rail	86456944-HS	1000VA; 6A max	8A	8A	1 normally open		
DALI-2 RM8 DIN rail WE	86456944-HS-WE	1000VA; 6A max	8A	8A	1 changeover	for DIN rail	98 × 17,5 × 57
DALI-2 RM16 DIN rail	86456203-HS	2000VA; 12A max	16A	16A	1 normally open		
DALI-2 RM16 DIN rail WE	86456203-HS-WE	2000VA; 12A max	16A	8A	1 changeover		



# DALI-2 4Ch PD - 4 channel phase dimmer

Phase dimmer with DALI input to control dimmable 230V luminaires in a DALI system. The 4 channel phase dimmer is suitable for 4×10W loads. Each channel has its own DALI address. Leading edge or trailing edge can be set with the software tool DALI Cockpit. The DALI-2 4Ch PD also supports the operating mode as a DALI controlled electronic switch. The DIN rail housing is suitable for installation in control cabinets.

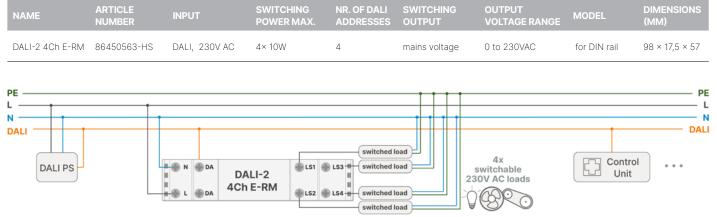


NAME	ARTICLE NUMBER	INPUT	MAX. CONTROL POWER	NR. OF DALI ADDRESSES	SUITABLE LOADS	OUTPUT VOLTAGE RANGE	MODEL	DIMENSIONS (MM)
DALI-2 4Ch PD	86451975-HS	DALI, 230V AC	4× 10W	4	leading/trailing edge R,L,C	0 to 230VAC	for DIN rail	98 × 17,5 × 57
L DALI DALI PS			DALI-2 4Ch PD			4 LED dimmable 10W loads	Contro Unit	L N DALI

# DALI-2 4Ch E-RM - 4 channel electronic relay control

DALI-2 4Ch E-RM provides 4 switching outputs that can be controlled via the DALI bus (DALI DT7). This means that 230V loads without a DALI input can easily be integrated into a DALI circuit and switched on and off using DALI commands. Each channel has its own DALI address. Power-up mode and systemfailure settings can be configured using the software tool DALI Cockpit. The DIN rail housing is suitable for installation in control cabinets.





### D Lunatone 5 B

# wDALI RM8 - wireless relay module

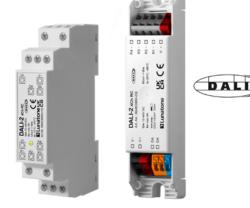
The wDALI relay module is used to wirelessly control nondimmable loads. The set consists of a transmitter and a receiver. The transmitter is connected to and powered by the DALI bus (3.8mA). The receiver with relay function is powered by mains voltage. Under optimal conditions the reception range is 300m, in buildings usually 10-20m.



NAME	ARTICLE NUMBER	MAX. NOMINAL LOAD; CIRCUIT BREAKER	MAX. SWITCHING CURRENT	TYPE OF RELAY CONTACT	FREQUENCY RANGE	MODEL	DIMENSIONS (MM)
wDALI RM8 + Transmitter	86459542+TM	1000VA; 6A max	max. 8A	1 on/off	2,4GHz	for flush-type installation boxes	59 × 33 × 15
L DALI DALI PS	LED driver		wDALL Transceiver	wDALI RM8	electrical device		ctrical evice

# DALI 4Ch RC - 4 channel relay control

DALI relay controller with 4 channels. Each channel has its own DALI address. Designed for controlling relays and contactors with 12V to 48V DC control input. Different versions suitable for DIN rail mounting or remote ceiling installation (housing with strain relief) are available.



NAME	ARTICLE NUMBER	INPUT VOLTAGE	MAX. INPUT CURRENT	NR. OF DALI ADDRESSES	OUTPUT CURRENT PER CHANNEL	MODEL	DIMENSIONS (MM)
DALI-2 4Ch RC DIN rail	89453860-HS	12-48V DC	max. 8A	4	max. 2A	for DIN rail	98 × 17,5 × 57
DALI-2 4Ch RC	89453860-DE	12-48V DC	max. 8A	4	max. 2A	with strain relief for suspended ceilings	120 × 30 × 22
	Power Diversion of the second	so aco aco so aco aco aco aco aco aco aco aco aco aco			En.Y LED driv	rer = 🚫 [ Contro	L N DALI

### DALI Jalousie - 230VAC

The DALI Jalousie module can be used to control blind motors with 230V control input via DALI. Four configurable profiles can be programmed to open/close the blinds and to change the tilt angle. Different versions suitable for DIN rail mounting or remote ceiling installation (housing with strain relief) are available.



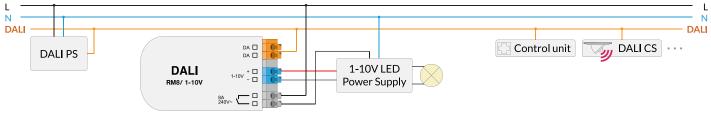
NAME	ARTICLE NUMBER	SUPPLY	TYP. DALI CURREN CONSUMPTION	T OPERATING TEMPERATURE (TA)	MODEL	DIMENSIONS (MM)
DALI Jalousie DIN rail	86458676-HS	via DALI line	5,5mA	-20°C +60°C	for DIN rail	98 × 17,5 × 57
DALI Jalousie	86458676-DE	via DALI line	5,5mA	-20°C +60°C	with strain relief for suspended ceilings	120 × 30 × 22
L DALI DALI PS	DA DA DA DAI Jalou	-I L⊛L∗	Wi motor cont	rol +blind motor cont	rol +blind	Control Unit

# DALI RM8 / RM16 0-10V - relay modules with 0-10V control input

0-10V interface with 8A or 16A relay. This interface converts DALI signals into 1-10V control signals and thus enables the integration of devices with 1-10V control input into a DALI system. With the integrated switching relay, the power supply of the operating devices can be switched on and off. The modules are compliant with DALI Device Type 5 (IEC62386-206). The Linear or logarithmic dimming curve as well as the 0-10V or 1-10V control voltage range are adjustable via the DALI Cockpit software. The devices with PWM (see table) can also control operating devices with PWM input. The DALI input is galvanically isolated from the PWM/1-10V output.



NAME	ARTICLE NUMBER	SWITCHING CURRENT RELAY CONTACT	TYPE OF RELAY CONTACT	OUTPUT (0-10V)	MODEL	DIMENSIONS (MM)
DALI RM8 PWM	86458668	max. 8A	1 on/off	0-100% PWM (14Bit, 488Hz), current sink 2mA	for flush-type installation boxes	59 x 33 x 15
DALI RM8 1-10V AN	86458668-AN	max. 8A	1 on/off	1-10V analog, current sink 1mA	for flush-type installation boxes	59 x 33 x 15
DALI RM16 1-10V with Wieland connectors	86458936	max. 16A	1 on/off	0-100% PWM (14Bit, 488Hz), current sink 2mA	with Wieland connectors	85 x 22 x 60
DALI RM16 0-10V PWM DE	86458667-DE	max. 16A	1 on/off	0-100% PWM (14Bit, 488Hz), current sink 2mA	with strain relief for suspended ceilings	120 x 30 x 22



### D Lunatone 7 B

## DALI RM8 / RM16 2×0-10V - operating 2 devices with 0-10V control input

This interface converts DALI signals into a 1-10V control signal and allows the integration of operating devices with two 1-10V control inputs for brightness and colour temperature into a DALI system. Output mode for channel1 / channel2 can be defined as either Brightness/Tc or separate channels for CW and WW.



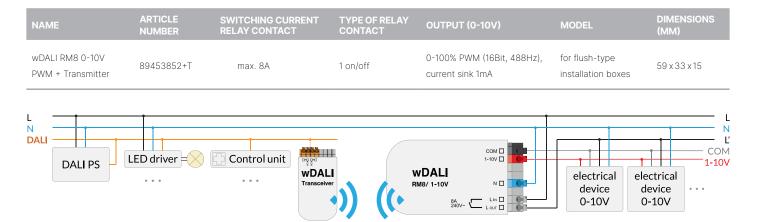
NAME	ARTICLE NUMBER	SWITCHING CURRENT RELAY CONTACT	TYPE OF RELAY CONTACT	OUTPUT (1-10V)	MODEL	DIMENSIONS (MM)
DALI RM16 2×0-10V DIN rail	89453857-HS	max. 16A	1 on/off	channel 1: 1-10V analog, current sink 1mA	for DIN rail	98 x 17,5 x 57
DALI RM16 2×0-10V DE	89453857-DE	max. 8A	1 on/off	channel 2: 1-10V analog, current sink 1mA	with strain relief for suspended ceilings	120 x 30 x 22
DALI PS		DALI (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)		LED + LED String	1 (CW)	rol unit

# wDALI RM8 0/1-10V PWM - wireless relay module with 0/1-10V PWM control output

Wireless 0-10V PWM interface with integrated 8A relay. The set consists of a transmitter and a receiver and is used to wirelessly control lights with 0-10V / 1-10V / PWM operating devices. The transmitter is connected to and powered by the DALI bus (3.8mA). The receiver has a 0-10V PWM output and a relay function and is powered by mains voltage.

The wDALI RM8 0-10V enables the wireless integration of electrical devices such as floor lamps and outdoor lighting into a DALI system. Under optimal conditions the reception range is 300m, in buildings usually 10-20m.





# DALI 0/1-10V - converting DALI to 0-10V, 1-10V or PWM

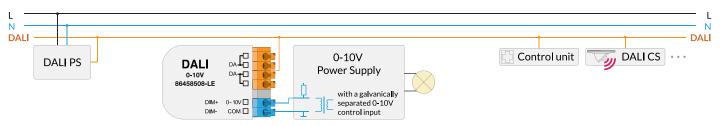
These interfaces convert DALI signals into 0-10V, 1-10V or PWM control signals, thus enabling the integration of electrical devices with 0-10V control inputs into a DALI system, options listed in table below.

A single module can control up to 10 ballasts. The output voltage range as well as linear or logarithmic dimming curve can be adjusted via the DALI Cockpit Software.

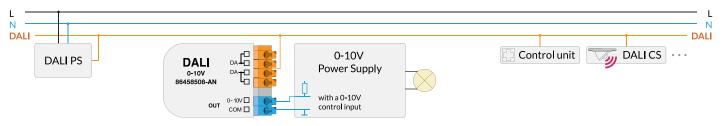


NAME	ARTICLE NUMBER	SIGNAL	SIGNAL RANGE	IOUT SIGNAL	GALVANIC	MODEL	DIMENSIONS (MM)
DALI 0-10V LE	86458508-LE	analog	0 - 10V	current sink: max. 1mA	no	for flush-type installation boxes	40 x 28 x 15
DALI 0-10V AN	86458508-AN	analog	0,6 - 10V	current sink: 100uA-1mA	yes	for flush-type installation boxes	40 x 28 x 15
DALI 0-10V PWM	86458508-PWM	PWM digital	0 - 100% PWM frequency fixed 488Hz	switching current: max. 1mA voltage: max. 10V	yes	for flush-type installation boxes	40 x 28 x 15
DALI PWM 100mA	86458508-100	PWM digital	0 - 100% PWM frequency adjustable: 488Hz / 976Hz	switching current: max. 100mA voltage: max 60VDC	yes	for flush-type installation boxes	40 x 28 x 15

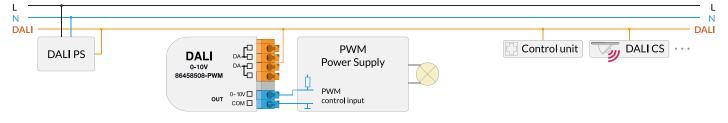
86458508-LE enables the integration of devices that have an integrated galvanic isolation and a 0-10V or 1-10V control input:



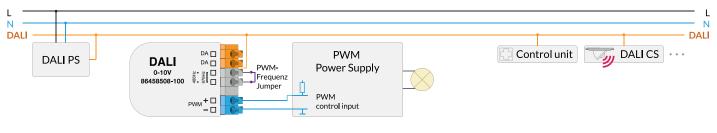
86458508-AN offers a galvanically isolated output and enables the integration of devices with 0-10V or 1-10V control input:



86458508-PWM offers a galvanically isolated output and enables the integration of devices with a PWM control input:



86458508-100 offers a galvanically isolated output and enables the integration of up to 100 devices with PWM control input:



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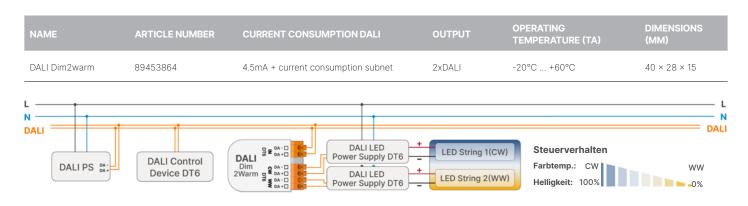
DALI Dim2warm

DT6

# DALI Dim2warm - converting DT6 dimming commands into two DT6 control signals

With only one DT6 DALI address, the Dim2Warm module allows the simultaneous control of brightness while changing the colour temperature. The lower the dimming value, the warmer the light. The output curves of the two channels can be individually adjusted via the DALI Cockpit.

This device can also be used for direct and indirect lighting with just one DALI address.



# DALI DT8 to DT6 - converting DT8-Tc commands into two DT6 control signals

DALI interface module for converting DT8-Tc control commands into DT6 control signals.

The module allows dimming and adjustment of colour temperature via DT8 commands.

Also suitable for lights with two DALI DT6 operating devices. Factory setting: separate outputs for cold-white and warm-white channel.



NAME	ARTICLE NUMBER	CURRENT CONSUMPTION DALI	OUTPUT	OPERATING TEMPERATURE (TA)	DIMENSIONS (MM)
DALI DT8 to DT6	89453859	4.5mA + current consumption subnet	2xDALI	-20°C +60°C	40 × 28 × 15
L DALI DALI PS DA	DALI Control Device DT8	A - D A	LED String 1(CW)		L N DALI



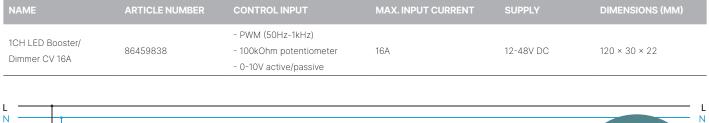
### 1Ch LED Booster/Dimmer

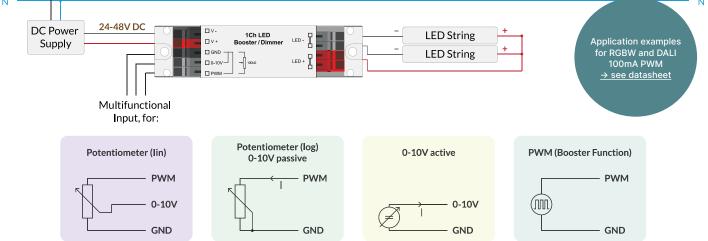
LED driver (CV) with one channel, can operate as PWM Booster or Dimmer.

The device operates as PWM-Booster, if PWM-signals are applied to the input (50Hz-1kHz).

If operated with  $100k\Omega$  potentiometer or 0-10V control device (active and passive), the device functions as Dimmer.







# ■ Lunatone OVERVIEW FOLDER A-E

wDALI Switch Cross

DALI Jalousie - 230VAC

0-10V input

with 0-10V input

### **INPUT DEVICES, CONTROL UNITS & SENSORS**

DALI-2 Display 4" and 7"	2
DALI-2 Display 7" – Emergency	4
DALI-2 Display Bus Extension	5
DALI-2 Touchpanel	6
DALI Touchpanel	8
DALI Bluetooth Interface	8
DALI Touchpanel Bluetooth 4.0	9
DALI-2 KNX Room Controller	10
DALI-2 Room Controller	10
DALI Cockpit Mobile - smartphone app	11
DALI ROT	12
DALI-2 ROT	14
DALI-2 ROT Touch	16
DALI-2 Switch Cross NFC	17

Ļ	wDALI Remote	19
5	wDALI MC - wireless pushbutton coupler	20
6	DALI-2 MC - pushbutton coupler	20
3	DALI-2 MC1L - pushbutton coupler	21
3	DALI-2 MC4L - pushbutton coupler	22
)	DALI-2 MC1L PS, MC2L PS	22
)	DALI-2 MC4L POTI - pushbutton coupler	23
)	DALI 100K - interface for potentiometer	23
1	EnOcean DALI-2 MC	24
2	DALI GC(-A) - controlling 2 DALI groups	24
Ł	DALI SC(-A) - controlling 4 DALI scenes	25
6	DALI LR PS 20mA - auto. reduction	25
7	DALI-2 Sequencer	26

18

6

6

7

### PHASE DIMMER, ACTUATORS & SIGNAL CONVERTERS

DALI-2 PD - DALI 230V phase dimmer	2
Relay modules RM8 / RM16	3
DALI-2 4Ch PD - 4 channel phase dimmer	4
DALI-2 4Ch E-RM - 4 channel relay control	4
wDALI RM8 - wireless relay module	5
DALI 4Ch RC - 4 channel relay control	5

### **OPERATING DEVICES 230VAC / 48V / 24V**

1-4 Channels, Constant Voltage (CV)	4
1-4 Channels, Constant Current (CC)	6
CW-WW, RGB, RGBW - Constant Voltage	8

CW-WW, RGB, RGBW - Constant Current9230V Operating Devices - DALI LED PowerSupply - 1 Channel DT6, CV-CC11

DALI RM8 / RM16 0-10V - relay modules with

DALI RM8 / RM16 2×0-10V - for 2 devices

wDALI RM8 0/1-10V PWM - wireless relay

### DALI BUS POWER SUPPLY & EXTENSION

DALI-2 PS - DALI bus power supply	2
DALI-2 Expander - system expansion &	
DALI power supply	3
DALI Proxy	5
DALI Repeater	5

wDALI GR-Transwithter – Receiver PS20	6
wDALI-2 Bluetooth 5 Long Range	
Transwithter – Receiver	6
wDALI-2 Bluetooth 5 wireless Bridge	7
	_

wDALI-2 Extra Long Range wireless Bridge 7

INTERFACES, TOOLS & GATEWAYS	

DALI Cockpit - PC software	2
short introduction on commission a DALI	_
system	2
DALI-2 USB 30mA	4
DALI USB	4
DALI Flash USB	5
DALI-2 WLAN Cockpit Interface	5
DALI 4Net - control of 4 DALI lines	6
DALI-2 SCI RS232	7
DALI-2 RS232 PS - with DALI bus supply	7
DALI-2 IoT Gateway	8
KNX DALI-2 Gateway	9
KNX 4 DALI Gateway	10

DALI-2 KNX Room Controller	10
DALI-2 Room Controller	11
DALI Cockpit Mobile - Smartphone App	12
DALI Daylight Bluetooth Interface	13
DALI-2 Audio Interface	13
DALI SI, SI-1L	14
DALI DSI - converting DALI to DSI	14
DALI Dim2warm - from DT6 to 2x DT6	15
DALI DT8 to DT6 - from DT8-Tc to 2x DT6	5 15
0-10V DALI - converting 0-10V to DALI w	ith
10mA bus supply	16
0-10V DALI - converting 0-10V to DALI w	ith
1, 2 or 3 channels	17

#### $\rightarrow$ open Folder A

DALI CDC - time based CW-WW control	27
DALI-2 RTC+ Timer	28
DALI NFC App - settings configuration	28
DALI Daylight Bluetooth Interface	29
DALI-2 Audio Interface	29
DALI-2 CS	30
DALI-2 CS Integration THP LE	34
DALI-2 CS Mini	35
DALI-2 CS Corridor	36
DALI CS with 20mA DALI power supply	37
DALI SI, SI-1L	37
DALI-2 LS - light sensor	38
DALI Temp - temperature sensor	38

#### $\rightarrow$ open Folder B

module with 0/1-10V	7
DALI 0/1-10V - converting DALI to 0-10V,	
1-10V or PWM	8
DALI Dim2warm - from DT6 to 2x DT6	9
DALI DT8 to DT6 - from DT8-Tc to 2x DT6	9
1Ch LED Booster/Dimmer	10

#### $\rightarrow$ open Folder C

230V Operating Devices - DALI LED Power Supply - Tunable White DT8, CV-CC 12

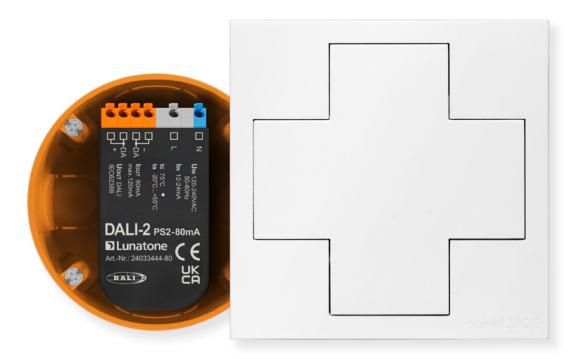
#### → open Folder D

DALI 4Net - control of 4 DALI lines	8
DALI-2 Display Bus Extension	9
24V DC Power Supply	9

#### → open Folder E

0-10V DALI - converting 0-10V to DALI with	
30mA bus supply	17
4-20mA to DALI Converter - 24V, with	
30mA bus supply	18
4-20mA to DALI Converter - 230V, with	
30mA bus supply	18
DALI RM8 / RM16 0-10V	19
DALI RM8 / RM16 2×0-10V	19
wDALI RM8 0/1-10V PWM - wireless	20
DALI Yeslousie - 230VAC	20
DALI 0/1-10V - converting DALI to 0-10V,	_
1-10V or PWM	21





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