

DALI-2 Touchpanel 03



Datasheet

Multi Control Module

Multifunctional
DALI-2 control module
with flexible
button layout

Art.Nr. 24035410-G__

Various DALI-2 Touchpanel Layouts:

Art. Nr.: G000 unprinted glasses

Art.Nr.: G01A (Dimming, 4 Scenes)

Art.Nr.: G02A (Dimming, 4 Scenes, 4 Groups)

Art. Nr.: G03A (Dimming, 4 Scenes, Tunable White)

Art. Nr.: G04A (Dimming, 4 Scenes, Tunable White, 4 Groups)

Art. Nr.: G05A (Dimming, 4 Scenes, Tunable White, 4 Groups)

Art. Nr.: G06A (Dimming, 4 Scenes, Colour RGB)

Art. Nr.: G07A (Dimming, 4 Scenes, Colour RGB, 4 Groups)

Art. Nr.: G08A (Dimming, Ceiling Fan, Blinds, 2 Groups, Tunable White, 4 Scenes)

Art. Nr.: G09A (Dimming, 4 Scenes, Colour and White RGBW)

Overview:

https://www.lunatone.com/wp-content/uploads/2020/11/DALI-2-Touchpanel-Layouts_EN.pdf

Datenblatt Deutsch:

https://www.lunatone.com/wp-content/uploads/2020/11/24035410_DALI-2_Touchpanel_GER_D0092-2.pdf

- multifunctional control module for DALI and DALI-2 systems
- multi-master capable: Several modules can be installed within a DALI circuit and / or a DALI group.
- capacitive touch interface
- up to 16 configurable keys
- standard layouts and factory settings for easy installation without configuration
- flexible layout - individual design - layout exchange on site. Additional glass inserts with different prints available as accessories.
- easy configuration via Lunatone DALI USB interface and DALI-Cockpit Software Tool
- touch interface material: glass
- plastic frame (RAL 9016) aluminium frame and customer-specific frame colours upon request
- integrated DALI-2 application controller
- application controller: direct control of DALI devices
- in addition to the standard DALI commands, the application controller also supports DALI DT8 TC and RGB (W) control as well as macros
- Instance-mode: Easy integration through 16 DALI-2 pushbutton instances and 5 DALI-2 analogue instances (slider)
- easy installation on a flush-mounted installation box
- the module is supplied by the DALI bus – no additional power supply necessary
- version with integrated DALI power supply available ("-PS")
- version with 4 indicator LEDs: [DALI-2 Touchpanel 04](#)
- DALI-2 control unit according to IEC62386-103



Type	DALI-2 Touchpanel
article number	24035410
DALI-Interface, power supply: DA, DA	
output type	DALI, DALI-2, Multimaster
terminal markings	DA, DA
voltage range	9,5V ... 22,5Vdc according to IEC62386
typical current consumption DALI (16,5V)	5 mA
start up time	990ms

DALI addresses	0
DALI-2 addresses	1

Insulation data:

impulse voltage category	II
pollution degree	2
rated insulation voltage	250V
insulation DALI / mains	reinforced isolation
insulation test voltage DALI / mains	3000Vac

environmental conditions:

storing and transportation temperature	-20°C ... +75°C
operational ambient temperature	-20°C ... +45°C
rel. humidity, not condensing	15% ... 90%

general data:

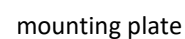
dimensions (l x w x h)	87,7mm x 87,7mm x 16,5mm
mounting	back box installation
material	touch-interface: glass, frame: plastic
expected life time	100.000h
Protection class	II (when used/installed as intended)
protection degree	IP20
Operating modes	Application Controller, DALI-2 Instance mode

terminals:

connection type	spring terminal connectors
wire size: solid core	0,5 ... 1,5 mm ² (AWG20 ... AWG16)
wire size: fine wired	0,5 ... 1,5 mm ² (AWG20 ...AWG16)
wire size: using wire end ferrule	0,25 ... 1 mm ²
stripping length	8,5 ... 9,5 mm / 0,33 ... 0,37 inch
tightening/ release of wire	push mechanism

standards:

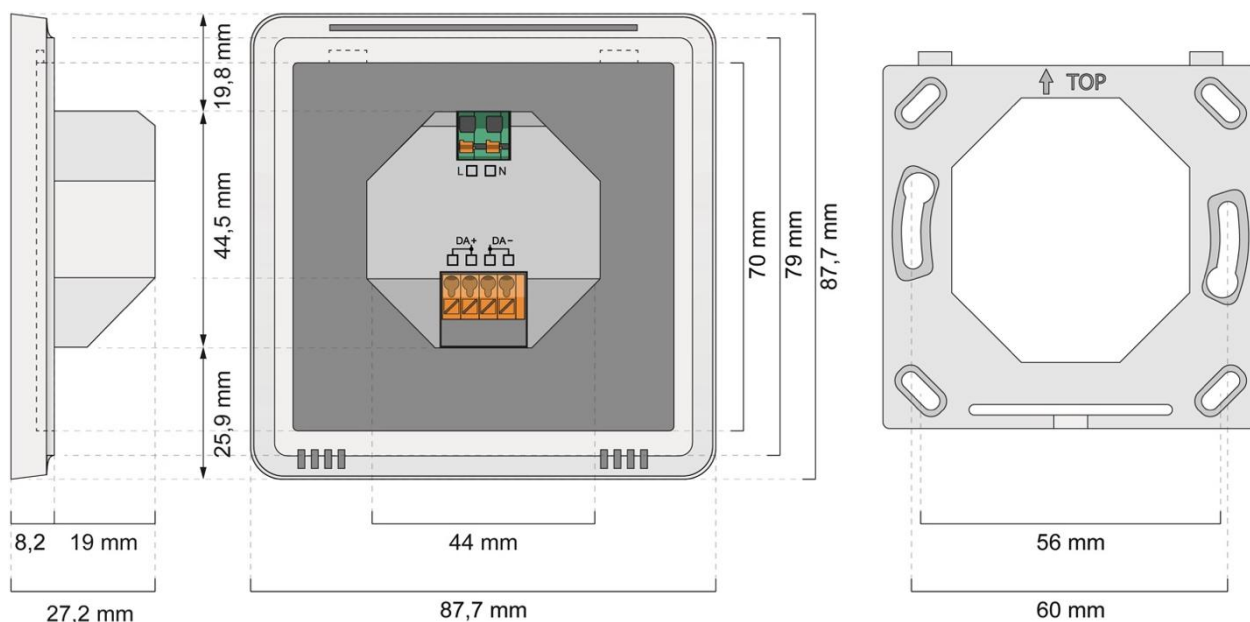
DALI	IEC62386-101:2014 IEC62386-103:2014
EMV	EN 61547 EN 50015 / IEC CISPR15
safety	EN 61347-2-11 EN 61347-1
Markings	DALI-2, CE, UKCA, RCM



Specification, Characteristics – DALI-2 Touchpanel PS: Version with integrated Bus Power Supply

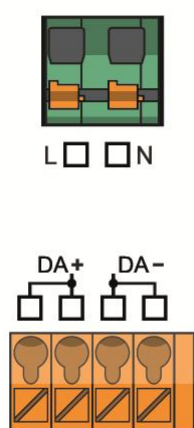
Version with integrated bus power supply (70mA). If not stated otherwise in the table below all information for standard version applies – all DALI-2 Touchpanel versions are available with integrated power supply 70mA.

type	DALI-2 Touchpanel-PS
article number	24035410-PS
input L,N	
input type	supply, mains-voltage
markings	N, L
input voltage range	230V AC
max. input supply current	17 mA
Input supply frequency	50Hz / 60Hz
power consumption max.	2W
start-up time	<250ms
output DA+, DA-	
output type	DALI
markings	DA-, DA+
output voltage range	12Vdc..... 20,5 Vdc
guaranteed DALI supply current	70mA
max. DALI supply current	80mA
Open circuit proof	yes
Short circuit proof	yes
insulation data	
Impulse voltage category	II
Pollution degree	2
Rated insulation voltage	250V
Rated impulse withstanding voltage	4 kV
Insulation DALI / mains	reinforced isolation
Insulation test voltage DALI /mains	3000V a.c.
general data:	
dimensions	88mm x 88mm x 28mm



dimensions DALI-2 Touchpanel PS - Version with integrated DALI bus power supply

mounting plate



connection plan
DALI-2 Touchpanel PS

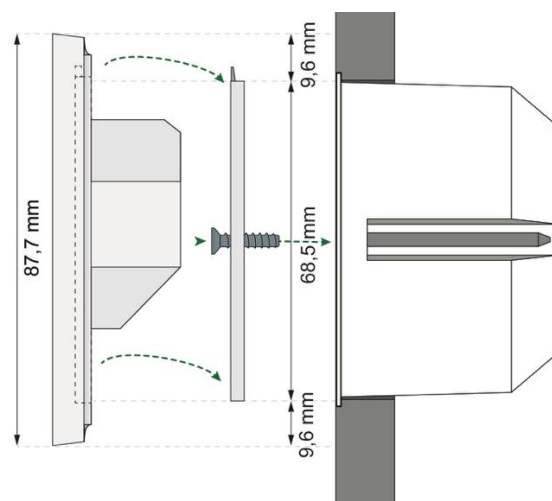
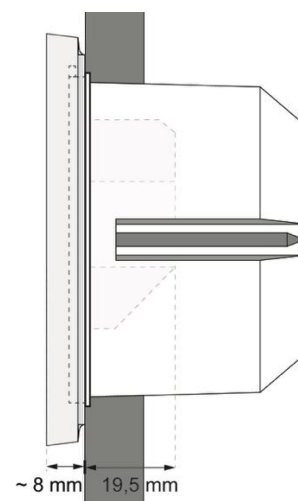


Figure 3 Installation DALI-2 Touchpanel PS
Touchpanel -> mounting plate -> flush-mounted box



installed Touchpanel

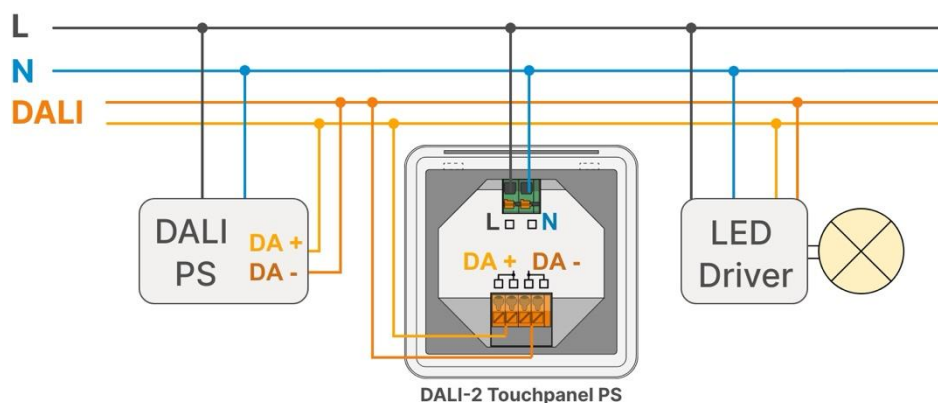


Figure 4 installation example DALI-2 Touchpanel PS with an additional DALI PS on the DALI bus

If **2 bus power supplies** are on the same DALI bus:
connect with the same **polarity** (DA+, DA-)!

max total supply current on the bus:
250mA!

Installation

- The DALI-2 Touchpanel is directly connected and supplied by the DALI bus. A DALI bus power supply (e.g., DALI PS) is required, no additional power supply is needed.
- **DALI-2 Touchpanel PS:** includes a DALI bus power supply (70mA). If 2 or more bus power supplies are connected on the same DALI bus, they need to be connected with the same polarity. (marked with DA+, DA-), see Figure 4, page 6.

It is possible to connect multiple DALI PS on a DALI line, but **the sum of all maximum supply currents must not exceed 250 mA!**

- **DALI-2 Touchpanel** (and DALI-2 Touchpanel PS with no additional DALI PS): the connection to the DALI terminals can be made regardless of polarity. The bus input is protected against overvoltage (mains voltage).
- The wiring should be carried out as a permanent installation in a dry and clean environment.
- Installation may only be carried out in a voltage-free state of the system and by qualified specialists.
- National regulations for setting up electrical systems must be followed.
- The DALI wiring can be realized with standard low-voltage installation material. No special cables are required.
- Only 1 wire may be connected to each terminal. When using double wire end

ferrules, the connection capacity of the terminal must be considered.

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

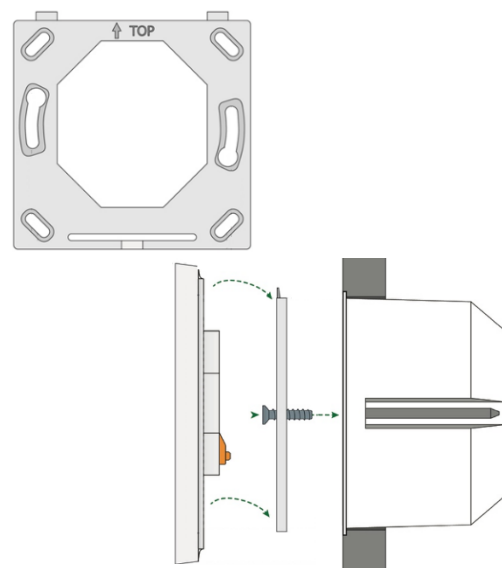
The voltage drop on the DALI line must not exceed 2V at maximum length (300m) and maximum bus load (250mA).

Wall Mounting

The DALI-2 Touchpanel can be attached to an electrical socket using a mounting plate (included), see also Figure 1 on page 4 and Figure 3 on page 6

First the mounting plate is attached to the electrical socket, paying attention to the orientation - Marking: **↑ TOP**

Then the DALI touch panel can be hooked in from the top and fixed with the screw on the bottom.



Addressing and Configuration

- After installation, the device can already be used with the default factory settings.
- Addressing and changes to the factory settings, such as setting the effective range and functions, are possible with the Software tool DALI Cockpit (Windows PC).
- When using the DALI-Cockpit Software, the PC must be connected to the DALI bus via a suitable interface module (DALI USB, DALI 4Net, DALI SCI RS232). The DALI-2 Touchpanel is automatically recognised by the DALI Cockpit during the addressing process and listed in the device overview.
- The addressing is done according to the DALI-2 specification and the device receives a corresponding address.
- For localisation a buzzer is integrated in each DALI-2 Touchpanel. Alternatively, the allocation can also be done via the serial number of the device.

Touch Panel Layout

The DALI-2 Touchpanel is equipped with an interchangeable glass with layout print as user interface.

An overview of the Lunatone standard layouts can be found in section “Standard Layouts – Factory Settings” on page 21.

The devices are delivered with the ordered layouts. Also, customer-specific designs can be realized. Design templates can be found at: <https://www.lunatone.com/en/produkt/dali-2-touchpanel/>.

The User Interface can be adapted to the respective needs using standard graphics software. On request, it is also possible to use a glass without print and paper inserts (size of the inserts: 86.4mm x 86.4mm).

Thanks to the interchangeable user interface, the touch panel offers customer-specific flexibility and can be adjusted to any application.

The exchange of the layout is carried out by pressing on the upper edge – pushing the frame down, away from the glass, see Figure 5.

Additional glasses are available as accessories. Both standard and custom designs can be ordered from Lunatone.



Attention: If the position of the buttons does not match after changing the layout, the configuration also needs to be adjusted (DALI Cockpit Software).

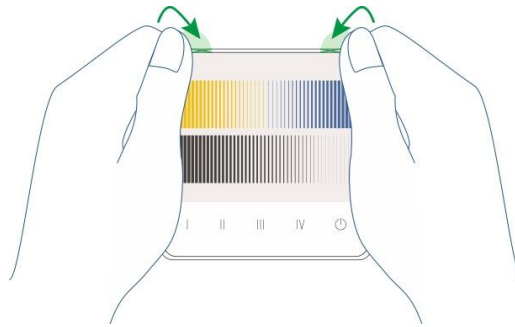


Figure 5 pressure points to exchange the glass

Operation and Function

The DALI-2 Touchpanel is a universal module to control DALI compatible luminaries.

Each DALI-2 Touchpanel layout can implement up to 16 buttons. The function of each button can be configured individually.

On delivery the buttons are preconfigured, matching the inserted layout.

If the design is changed, the button configuration should be adapted accordingly.

As with other Lunatone control devices, the settings can be changed with the DALI Cockpit Software tool.

In the DALI Cockpit device overview existing configurations can be saved or loaded by right-clicking on the device, using "Export device settings ..." or "Import device settings ..." accordingly, see Figure 6.

All Lunatone standard layout configuration files and descriptions can be found under:

<https://www.lunatone.com/en/produkt/dali-2-touchpanel/>

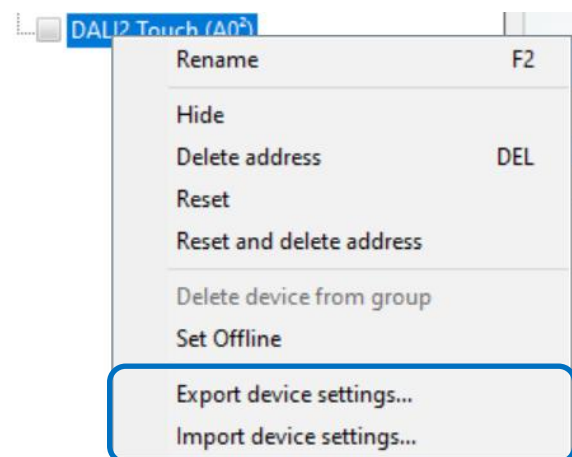


Figure 6 import or export device settings

With the DALI Cockpit Software tool, existing settings can be adjusted to fit the application e.g. number of buttons, button functions, effective range, ... see Figure 7 and Figure 8

device information

Device Info

Name	DALI2 Touch	Article Number	24035410	GTIN	9010342013089
Manufacturer	Lunatone	Serial Number		FW	
Device Type	-	Type	Control Device		
IEC62386 Ver	V2.0	Short Address	(A0 ²) DALI2 Touch		Set

General Application Instances

Device Description

DALI2 Touch General Properties

☒ Beeps when pressed

DALI-2 Control Device Parameters

☒ Application Controller Enable
 ☐ Power cycle notification Enable
 ☐ Instances Enable

▼ Membership in Groups for DALI-2 Controls

settings for DALI-2 instances

settings for the Touchpanel application controller

21 fixed instances, or dynamic instance per button

Optional description / information about the device

enable/disable button sound

enable/disable Application Controller (default: enabled)

Figure 7 general settings – DALI Cockpit

It is necessary to distinguish between application controller and DALI-2 instances.

The application controller gives direct DALI control commands that are immediately executed by the DALI drivers.

The DALI-2 instances generate event messages that are interpreted and processed by higher-level control units (WAGO, Beckhoff, LUNATONE DALI-2 KNX gateway). General information on the DALI-2 instance mode:

<https://www.lunatone.com/en/dali-2-factsheet/> section: DALI-2 Instances

The application controller and instance event messages can be active at the same time.

 **Additional Information:** A deactivated Application Controller is indicated in the DALI Cockpit device tree with: A.
A device with active instances is indicated with: i

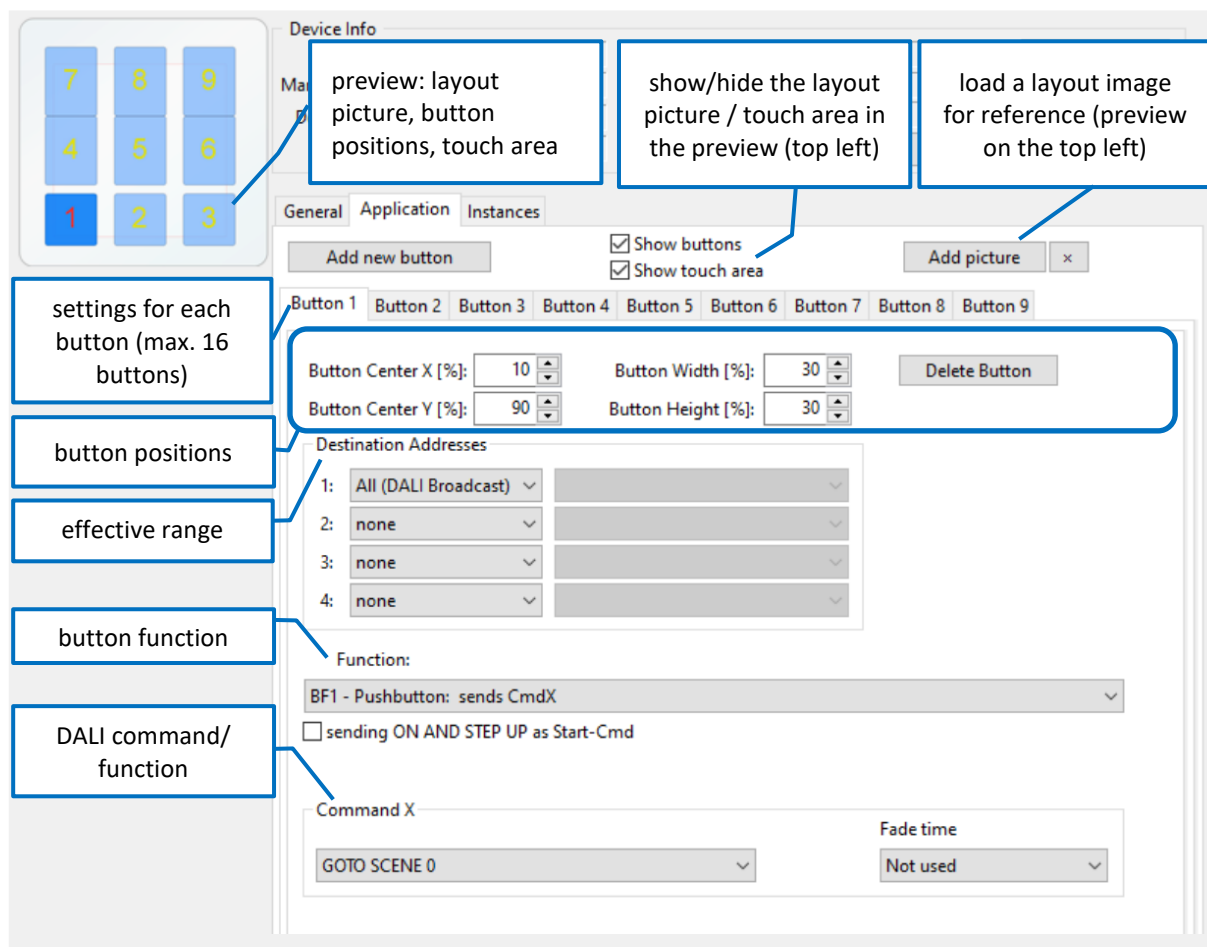


Figure 8 Application: Application Controller

Button position

To adjust the button positions, a reference picture can be added to the preview on the top left corner of the Cockpit Window (Figure 8 "Add picture"). Supported image formats: bmp, jpg, png, gif, tif, tiff, emf.

The positions of the buttons are defined by 4 parameters:

Button Centre X in %	Button Width X in %
Button Centre Y in %	Button Height Y in %

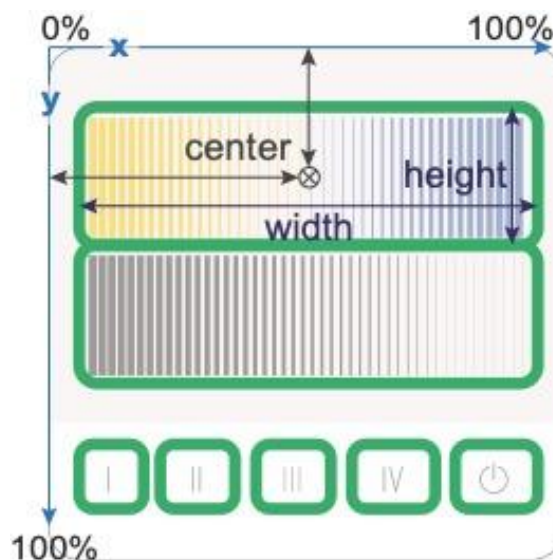


Figure 9 Button positions (indicated in green)

Destination address / effective range

In the section "destination addresses" it is possible to define which devices are affected by the button function. Possible destination addresses:

- Broadcast (an alle)
- DALI group (0 - 15)
- DALI single address (0 - 63)

Up to 4 different target addresses can be defined for each button. When the button is pressed the target addresses 1 to 4 will be processed sequentially (see Figure 10)

Address	Command	Time
G1	OFF	12:54:04.695
G2	OFF	12:54:04.723
A21	OFF	12:54:04.749
A45	OFF	12:54:04.777

Figure 10 Example: Addressing Inputs 1-4 – sequentially processed

Button Function (BF)

Various "Button Functions" (BF) can be assigned to the individual buttons. The "Button Function" defines the behaviour of a button. A short or long press of the button can trigger different DALI commands.

A toggle function (switching between on and off) is also possible.

For the DALI-2 Touchpanel following "Button Functions" are available, see Figure 11

BF0 - no action

BF0 - no action

BF1 - Pushbutton: sends CmdX

BF2 - Pushbutton: CmdX on short press, CmdY on long press

BF3 - Pushbutton: CmdX on short press, CmdY on extra long press

BF4 - Toggle button: CmdX/CmdY toggles with every press

BF5 - Toggle button: CmdX/CmdY depending on actual Light Level

BF6 - Dim button: CmdX/CmdY/UP/DOWN depending on actual Light Level

BF7 - Switch: CmdX to switch ON, CmdY to switch OFF

BF8 - Changeover switch: CmdX/CmdY depending on actual Light Level

BF9 - Staircase control: CmdX and after the delay CmdY

BF10 - Pushbutton: CmdX on short press and release, CmdY on long press with repetition

BF11 - Pushbutton with repetition: sends CmdX, repeats CmdY

BF13 - TW DimButton: CmdX/CmdY/COOLER/WARMER

BF16 - DAP Circle

BF17 - Scene Circle

BF18 - Colour temperature Circle

BF19 - RGB Circle

BF20 - Slider

BF21 - Slider Tc

BF22 - Slider RGB

BF27 - Colour Slider RED

BF28 - Colour Slider GREEN

BF29 - Colour Slider BLUE

BF30 - RGBW Touch Area

BF35 - Switch Destination Address

Figure 11 DALI-2 Touchpanel button functions

Key presses (short / long) are queried according to the timing diagram in Figure 12 Key Events and translated into internal signals (**key events**).

The following table (Table 1) shows how the selected “Button Function” (lines 0 to 13)

sends the commands **CmdX** and **CmdY** in connection with the “Key Events” (Figure 12). CmdX and CmdY refer to DALI commands.



Note: The DALI commands are transmitted to all assigned addresses.

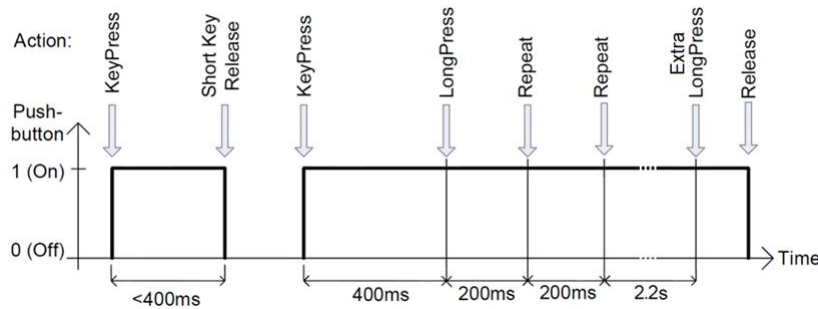
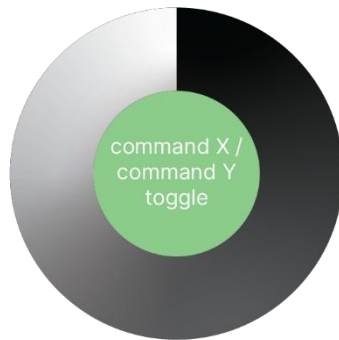


Figure 12 Key Events

button function number	event: press	event: short press (release)	event: long press	event: extra-long press	event: repeat	function	typical application
0	-	-	-	-	-	-	-
1	CmdX	-	-	-	-	sends CmdX on key press	master off
2	CmdX	-	CmdY	-	-	sends CmdX on key press sends CmdY on long key press	switch to 2 different levels
3	-	CmdX	-	CmdY	-	sends CmdX on key press sends CmdY on extra-long key press	store level as scene
4	CmdX / CmdY toggle	-	-	-	-	sends alternating CmdX and CmdY on key press	toggle push button
5	CmdX / CmdY toggle	-	-	-	-	sends CmdX or CmdY on key press depending on bus status	changeover button
6	-	CmdX / CmdY toggle	UP / DOWN	-	UP / DOWN	sends CmdX or CmdY on short key press depending on bus status sends alternating UP or DOWN on long press and repeat	push and dim
7	CmdX CmdY on any release	-	-	-	-	sends CmdX on key press sends CmdY on key release (after any duration)	switch
8	CmdX / CmdY toggle CmdY / CmdX toggle on any release	-	-	-	-	sends CmdX or CmdY on key press depending on bus status sends CmdY or CmdX on key release (after any duration) depending on bus status	changeover switch
9	CmdX CmdY on delay	-	-	-	-	sends CmdX on key press sends CmdY after a programmable delay	staircase control
10	-	CmdX	CmdY	-	CmdY	sends CmdX on short key press sends CmdY on long key press sends CmdY on repeat	push and dim
11	CmdX	-	-	-	CmdY	sends CmdX on key press sends CmdY on repeat	push and dim
13	-	CmdX / CmdY toggle	-	-	WARMER / COOLER	sends CmdX or CmdY on short key press depending on bus status sends alternating WARMER or COOLER on repeat	tunable white dim

Table 1

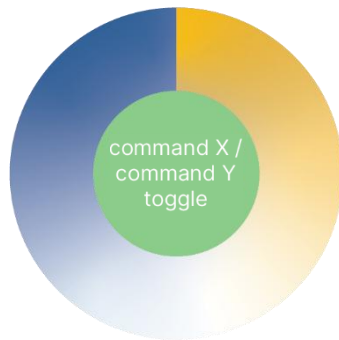
BF 16 – DAP Circle



BF 17 Scene Circle



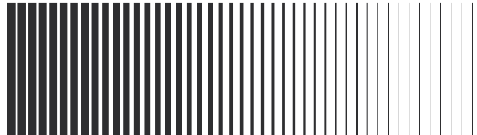
BF 18 Colour temperature Circle



BF 19 RGB Circle



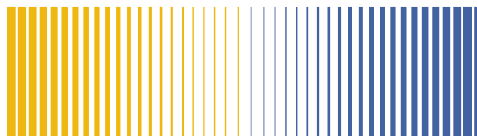
BF 20 Slider



BF20 - Slider

☒ Vertical
 ☐ Horizontal
 ☒ Min <—> Max
 ☐ Max <—> Min

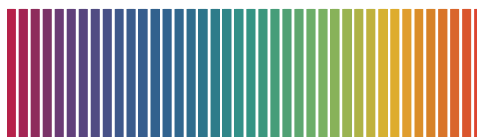
BF 21 Slider Tc



BF21 - Slider Tc

☒ Vertical
 ☐ Horizontal
 ☒ Min <—> Max
 ☐ Max <—> Min
 Min Value: K
 Max Value: K

BF 22 Slider RGB



BF22 - Slider RGB

☒
☐
☐
☐

BF 27 Colour Slider RED



BF 28 Colour Slider GREEN

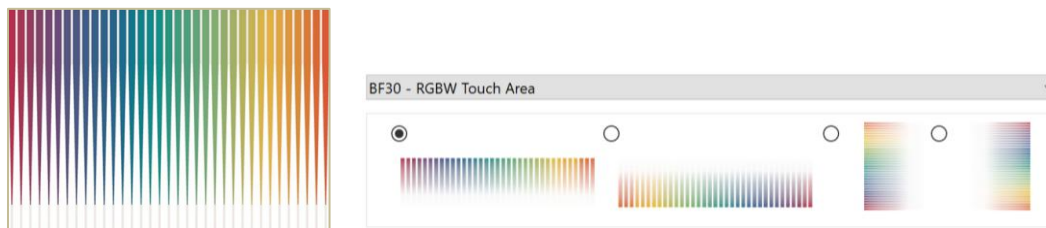


BF 29 Colour Slider BLUE



☒ Vertical
 ☐ Horizontal
 ☒ Min <—> Max
 ☐ Max <—> Min

BF 30 RGBW Touch Area



BF 35: Switch destination Address:

BF35 – Switch Destination Address

☐ Original Button Destinations

☒ Alternative Destination

All (DALI Broadcast)

When a button is selected with this function, the effective ranges of all other keys on the touchpanel are switched to the specified effective range.

A button with BF35 and the selection "Original Button Destination" restores the effective ranges of the individual buttons.

Commands

The actual action, i.e. which function is triggered when pressing a button is determined by the button function and command assigned to the button.

For button function 1-13, in most cases, an X command (CmdX) and also a Y command (CmdY) can be selected.

Command X

RECALL MAX LEVEL

Command Y

OFF

The following options are available:

Command name	action / function
None	no command is sent
DIRECT ARC POWER	direct arc power – set light level in %
OFF	off
UP	dim up (using fade rate)
DOWN	dim down (using fade rate)
STEP UP	increases light level by one increment
STEP DOWN	decreases light level by one increment
RECALL MAX	recalls MAX value
RECALL MIN	recalls MIN value

STEP DOWN AND OFF	decreases light level by one increment, if value at MIN switch off
ON AND STEP UP	increases light level by one increment, if OFF switch on
GOTO LAST ACTIVE LEVEL (DALI 2)	DALI-2-Cmd for switching on to the last active level (Memory-Function) (Firmware 2.0 and up)
GO TO SCENE	go to scene 0-15

Table 2

Depending on the selected command, additional input fields might appear for further settings, see Figure 13.

Command X

Light Level: Fade time

Light Level (DAP) 100 % [1] 0.7 sec

Figure 13 additional settings to a DALI command

Predefined macros

Macros are predefined/ user defined command sequences that can be triggered by a single command.

The following macros are available:

Nr	Macro	Function
M1	Go Home	Light dims down to DAP 0 with predefined fade time, then fade time is set back to a programmable value
M2	Sequential Scenes	A list of the scenes can be defined; the scene is switched with each button press. The selection "common scene list" allows the buttons with M2 and this selection to continue switching the same scene list. From FW 2.0 on an OFF command to the effective range restarts the list.
M3	Dynamic Scenes	A dynamic sequence of up to 16 scenes can be defined, including custom fade times and delays.
M4	Save actual light level as scene	When triggered the current level is saved in a scene (options: light level, RGB colour value, WAF colour value or colour temperature).
M5	User Defined Cmd-List	A user-defined macro script with up to 19 commands is executed.
M6	TC cooler	Activates the DT8 mode and sends the command "COOLER" 3 times.
M7	TC warmer	Activates the DT8 mode and sends the command "WARMER" 3 times.
M8	Send RGB +	Activates the DT8 mode and sends an ascending RGB colour table value.
M9	Send RGB -	Activates the DT8 mode and sends a descending RGB colour table value.
M10	Delayed Off	Sends a DAP level and after a delay the OFF command. DAP level and delay are user defined.

Table 3

Power Up

Power-up commands can be defined for the first four buttons and their effective ranges. Default: None. The options are: Off, Light Level %, Min, Max, Last Active Level, Scene 0-15

Actions After Power Up:

None

Palm Control

For firmware version 2.0 the first tab on the button tab allows configuration for light control when placing the whole hand on the DALI-2 Touchpanel. It is not possible to update devices with firmware version 1.0 to 2.0

Palm Control
Button 1
Button 2
Button 3
Button 4
Button 5

Palm Control:


Destination Addresses

1: All (DALI Broadcast)
2: none
3: none
4: none

Function:
BF1 - Pushbutton: sends CmdX
☐ sending ON AND STEP UP as Start-Cmd

Command X
RECALL MIN LEVEL

Palm control allows fast light control by placing the entire hand on the DALI-2 Touchpanel. Following buttons functions are available for palm control.

- BF0 – no action – deactivate palm control
- BF1 - Pushbutton: sends CmdX
- BF4 - Toggle button independent of Bus status
- BF5 - Toggle button dependent of Bus status

The same effective ranges and control commands can be configured as for other buttons. The palm control tab cannot be deleted, to turn off palm control select BF0.

DALI-2 Instances

In this operating mode, no DALI control commands are sent on the bus, but DALI-2 event messages for DALI-2 compatible central control systems. General information on DALI-2 instance mode can be found [here](#).

The DALI-2-Touchpanel supports up to 16 instances of type 1 (IEC62386-301, Input Devices – Push Button), and 5 instances of type 2 (IEC62386-302, Analogue Input Device) which are assigned to the 16 buttons and 5 sliders / circles accordingly.

The number of sliders (BF20-BF22,BF27-BF29) or circles (BF16-BF19) is therefore limited to 5 for the instance mode. The RGBW Area (BF30) requires 2 analogue instances, and is thereby limited to max. 2.

Circles (BF16-BF19) have one pushbutton and analogue instance each.

On the tab "General", starting with firmware version 2.0.20, it can be configured whether instances are assigned dynamically according to the created buttons or remain fixed as for firmware versions prior to 2.0.20. When dynamic Instances are enabled or disabled the device's instances need to be read out again after saving.

Dynamic Instance Numbers

Starting with firmware version 2.0.20, the option "dynamic instances" is available and enabled by default (Q3 2026).

☒ Enable Dynamic instances

Instance numbers are assigned according to the buttons on the device:

- Palm Recognition is instance number 0.
- For other assigned buttons, the button number equals the instance number.
- For button functions like RGBW Area or Circle, which have two instances, the

second instance is added to the end of the instance list.

Fixed Instance Numbers

For firmware versions prior to 2.0.20 and if option "dynamic instances" is disabled on the tab "General",

☐ Enable Dynamic instances

the instance numbers are fixed:

- Instance number 0 to 15 are pushbutton instances (instance type 1)
- instances number 16 to 20 are analogue instances.
- instance number 21 is the pushbutton instance for palm detection.

The assignment of instance numbers to button numbers is also fixed:

If defined as a pushbutton: Button Function

1-13 see section Button Function (BF) page 12

Button nr. 1	Instance nr. 0
Button nr. 2	Instance nr. 1
Button nr. 3	Instance nr. 2
Button nr. 4	Instance nr. 3
..	...
Pushbutton nr. 16	Instance nr. 15

If defined as a slider / circle or area: Button

function 16 – 30: see section Button Function (BF) page 12

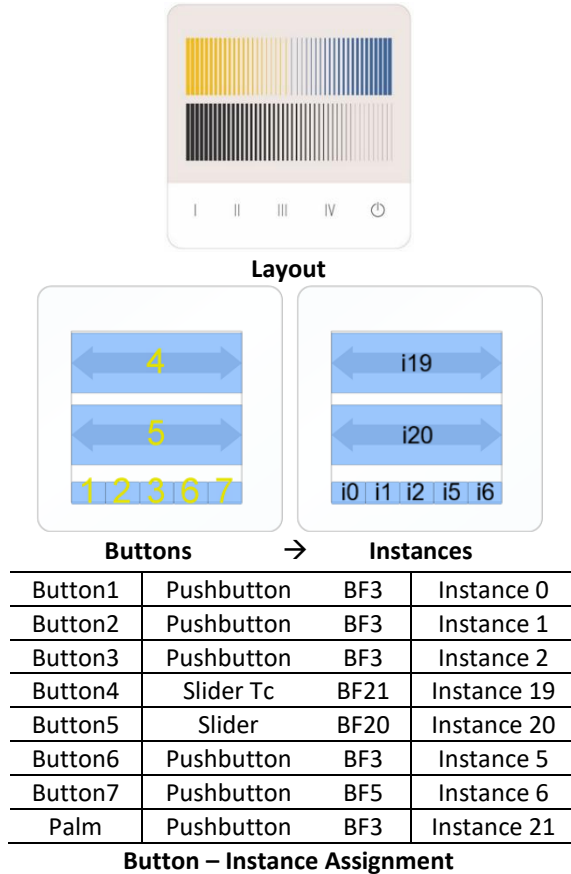
Button nr. 1	Instance nr. 16
Button nr. 2	Instance nr. 17
Button nr. 3	Instance nr. 18
Button nr. 4	Instance nr. 19
Button nr. 5	Instance nr. 20

Important: due to the fixed assignments sliders, circles and areas i.e. any buttons with analogue instance types need to be configured as buttons 1-5 to ensure the functionality of the analogue instance.

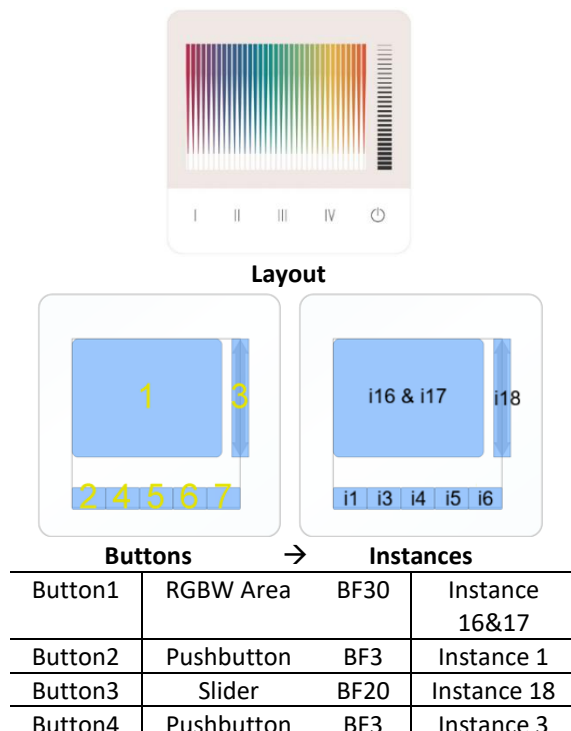
Attention: RGBW Area BF30 requires 2 analogue instances (which are consecutively

assigned), the button following the RGBW area should therefore not be a slider/circle or other area.

Example instance numbers Layout G03A



Example instance numbers Layout G09A



Button5	Pushbutton	BF3	Instance 4
Button6	Pushbutton	BF3	Instance 5
Button7	Pushbutton	BF5	Instance 6
Palm	Pushbutton	BF3	Instance 21

Button – Instance Assignment

DALI-2 Pushbutton Instance (instance type 1)

As defined in the standard, the following events are supported and sent on the DALI bus as INPUT NOTIFICATIONS, see Table 4.

Which events are sent can be determined using the event filter. Further parameters of the instances 0-15 and 21 are: event filter and event timer settings (short timer, double timer, repeat timer, stuck timer), which can be configured via the DALI Cockpit Software. See Figure 14.

With which origin/address information the events are sent is determined with the instance-scheme. General information on the DALI-2 instance mode and the instance types, event settings, event schemas etc. can be found in the instance guide [here](#).

Instances can be queried using Query Input Value. Pushbutton instances return the following values in response to a query:

button free	0x00	button not pressed / switch open
button pressed	0xFF	Button pressed / switch closed

Default settings for pushbutton instances:

Assigned Instance groups	None
Event Scheme	Instance addressing
Selected Event Filters	Short press, Long press start Long press repeat Long press stop Button Stuck/free
Short press timer	500ms
Double press timer	- (not used)
Repeat timer	160ms
Stuck Timer	20s

Event name	Event Information	Description
Button released	00 0000 0000b	The button is released
Button pressed	00 0000 0001b	The button is pressed
Short press	00 0000 0010b	The button is pressed and released, without being pressed quickly again (in case of double press enabled), or the button is pressed and quickly released (in case double press is disabled)
Double press	00 0000 0101b	The button is pressed and released, quickly followed by another button press
Long press start	00 0000 1001b	The button is pressed without releasing it
Long press repeat	00 0000 1011b	Following a long press start condition the button is still pressed, the event occurs at regular intervals as long as the condition holds
Long press stop	00 0000 1100b	Following a long press start condition, the button is released
Button free	00 0000 1110b	The button has been stuck and is now released
Button stuck	00 0000 1111b	The button has been pressed for a very long time and is assumed stuck.

Table 4 Pushbutton Events

select instances to configure,
- if fixed: 0-15 are pushbuttons, as well as 21 (palm detection)
- if dynamic: respective button numbers as defined, see "instance type"
the settings shown below apply to the selected instance

Enable event messages for the instance

event and timer settings

event filter: depending on the selection, events are sent for the respective events

Figure 14 Instance Settings – Pushbutton Instances

DALI-2 Analog Instance (Instancetype 2)

The event input value of the analogue instance corresponds to the selected position value on the assigned slider, circle or area. If this value is changed, the instance generates a DALI-2 event ("INPUT NOTIFICATION").

Parameters of the analogue input device instances 16-20 are: event filter and event timer settings (report, deadtime), which can be configured via the DALI Cockpit Software, see Figure 15.

By using the report timer, the input value is sent periodically as a DALI-2 event regardless of input value changes. (Report Timer set to 0s, means no event is sent)

The deadtime can be used to prevent the generation of an event by the instance for the set deadtime-period.

The event information contains the position with a value range (10-bit resolution): 0 – 1024.

DALI24 Event 84 8b ff iT2, iN2 Event 1023

The resolution of the query input value is 8 bits, the position is determined by multiplying the Answer by a factor of 4:

DALI24 Inst Query 01 02 8c A0, iN2 QUERY INPUT VALUE
DALI8 Answer ff = 255 (0xff)

→ Position: $255 \cdot 4 = 1020$

Default Settings for analogue input instances:

Assigned Instance groups	None
Event Scheme	Instance addressing
Selected Event Filters	Position
Event Priority	5 (lowest)
Report timer	0s
Deadtime	0.1s

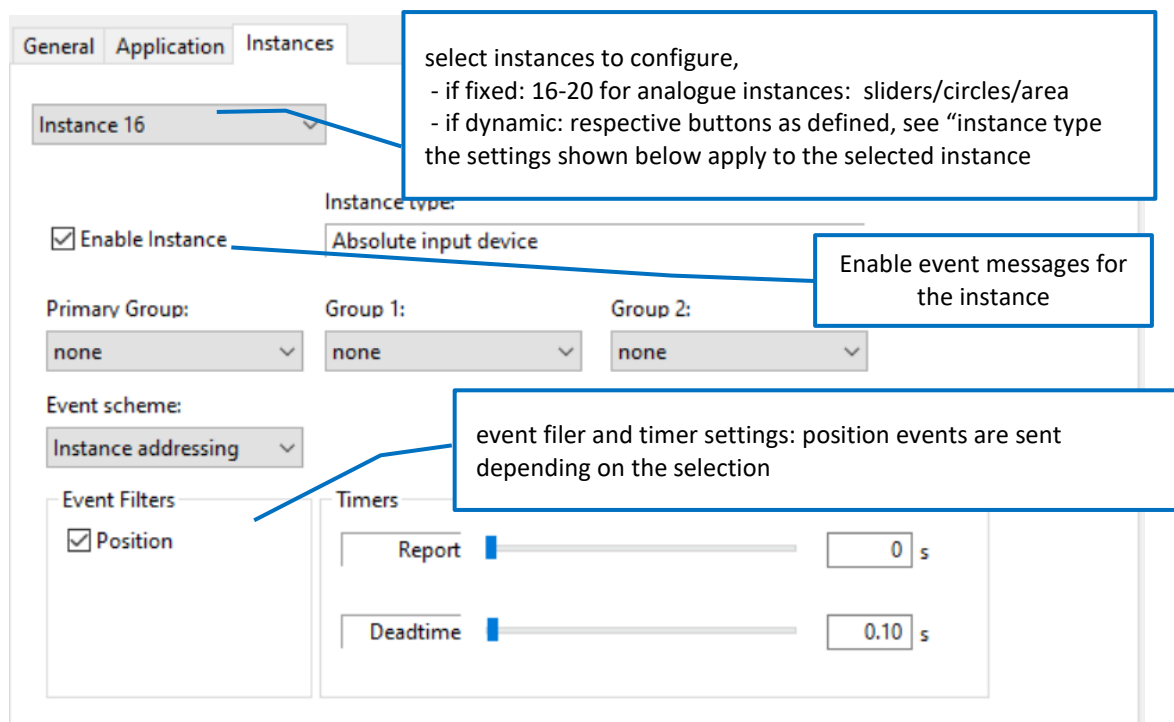
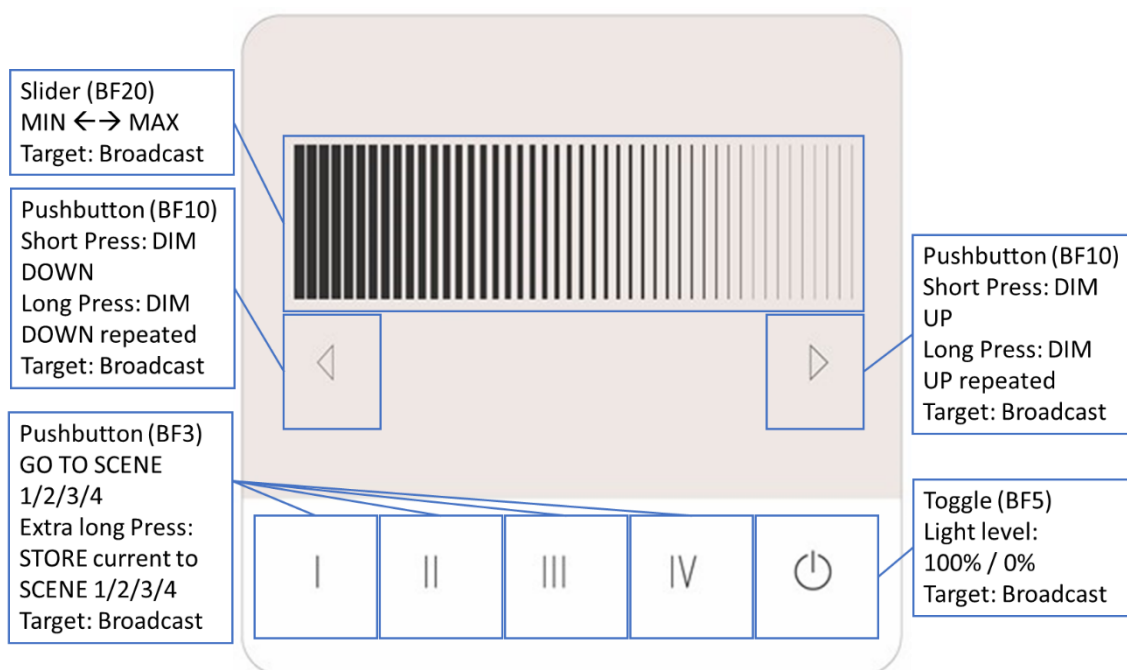
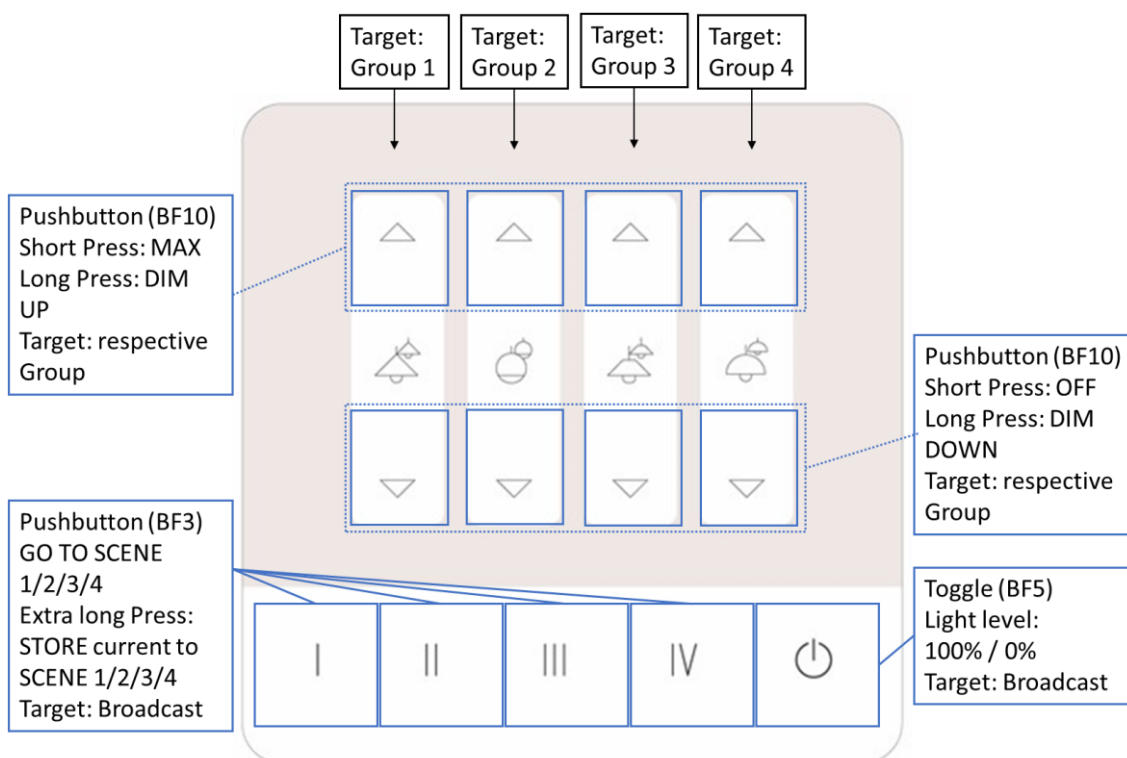


Figure 15 Instance Settings – Analogue Instances

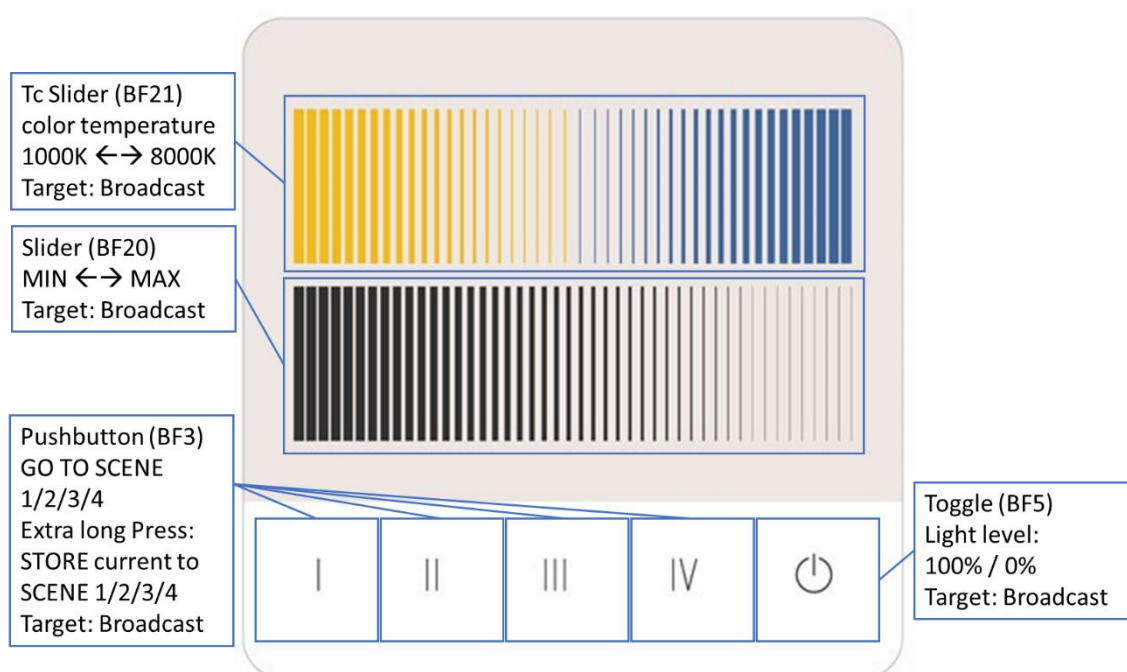
Standard Layouts – Factory Settings



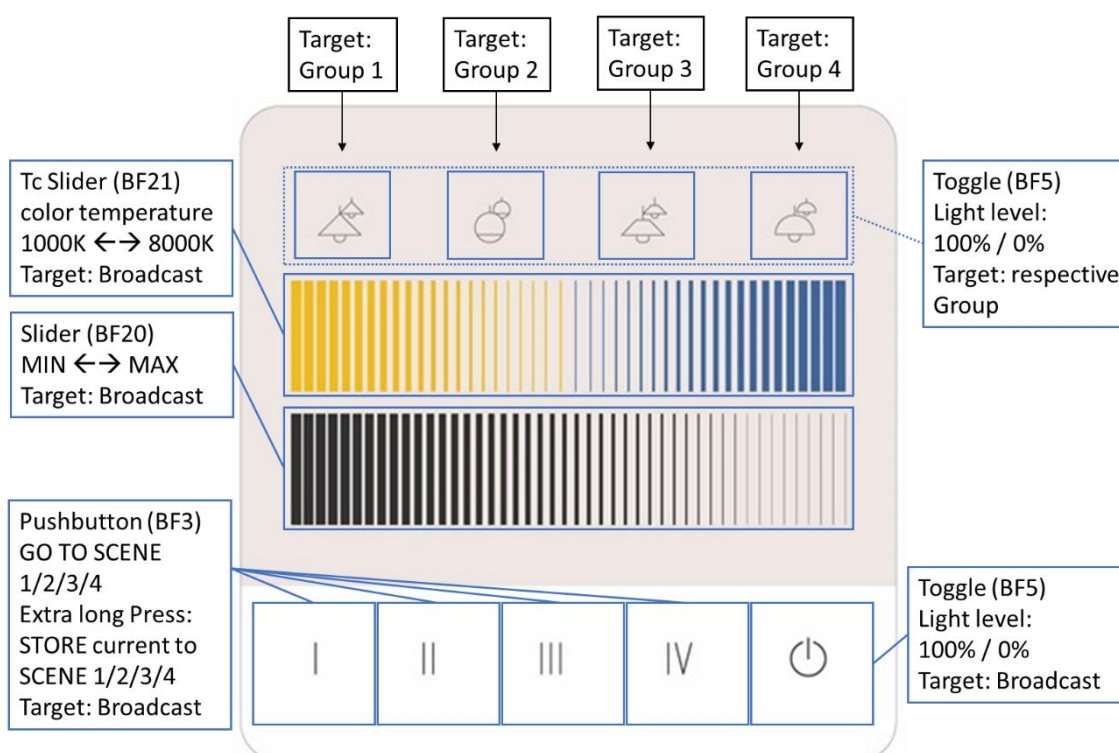
Layout Art. Nr.: **G01A** brightness slider & arrows for fine adjustment



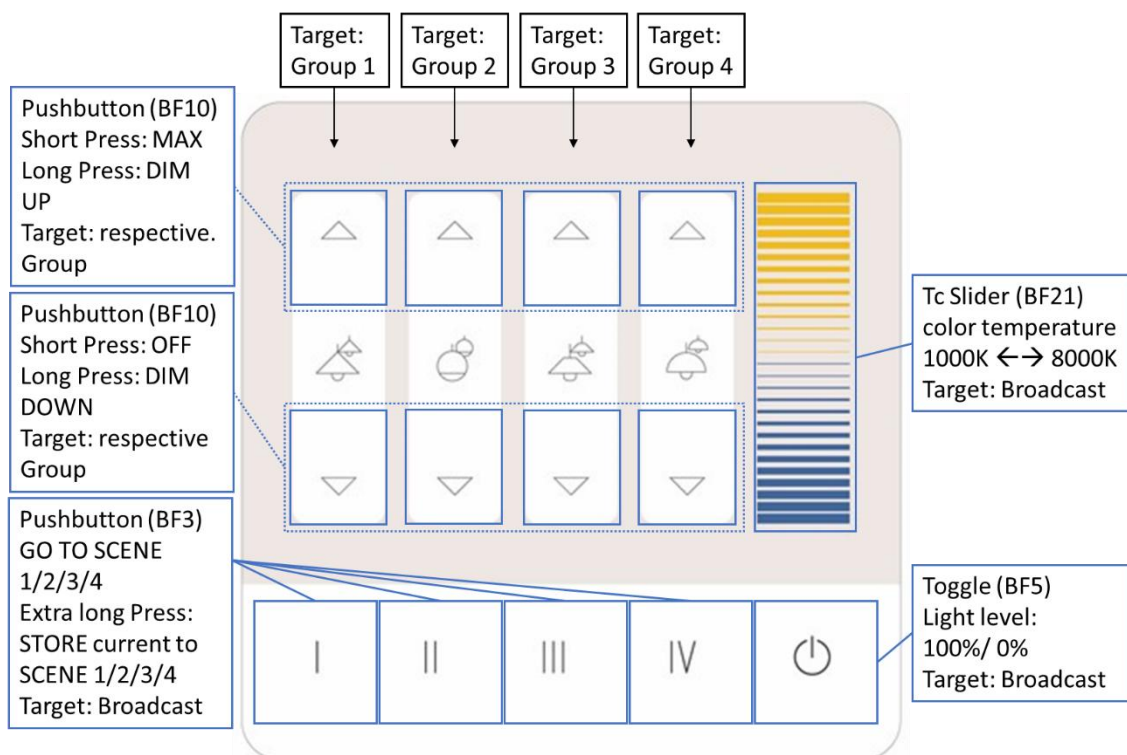
Layout Art. Nr.: **G02A** 4 groups separately dimmable with arrows



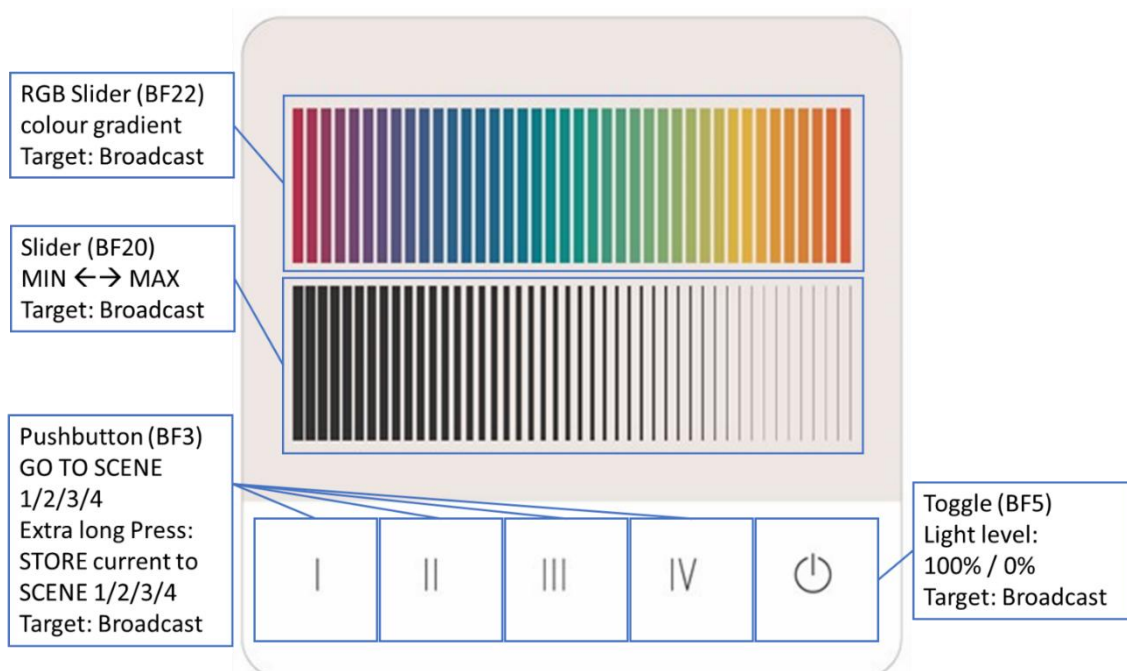
Layout Art. Nr.: G03A brightness slider & tunable white slider



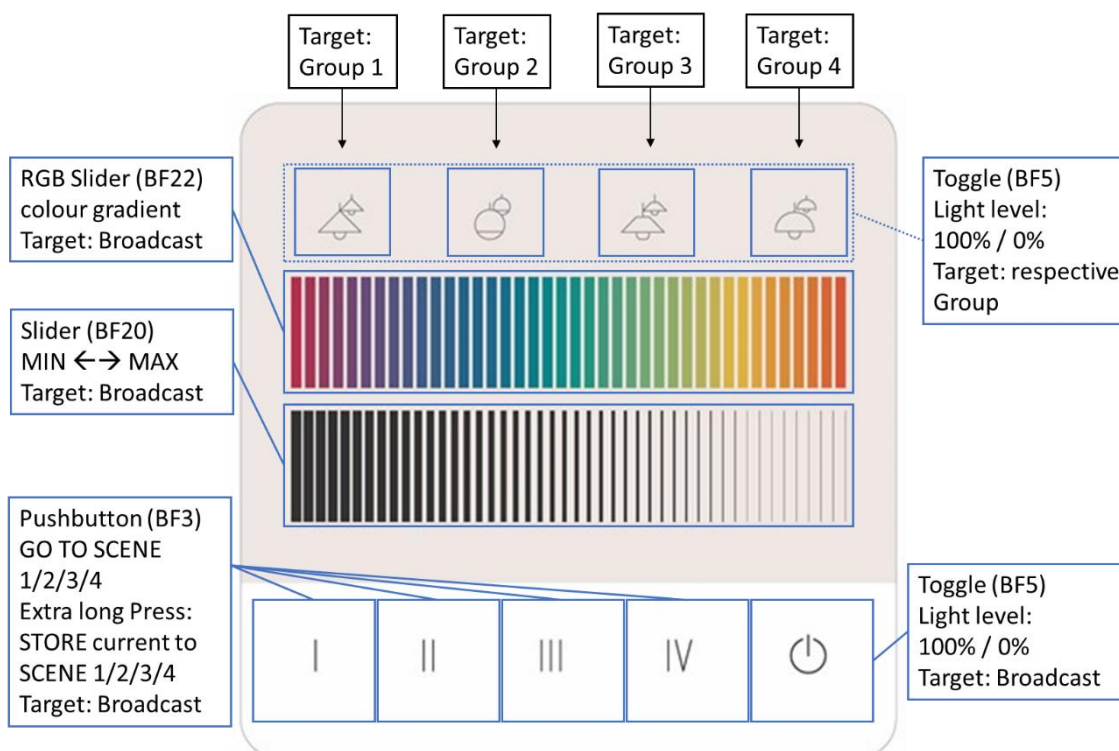
Layout Art. Nr.: G04A 4 groups on/off, brightness slider, tunable white slider



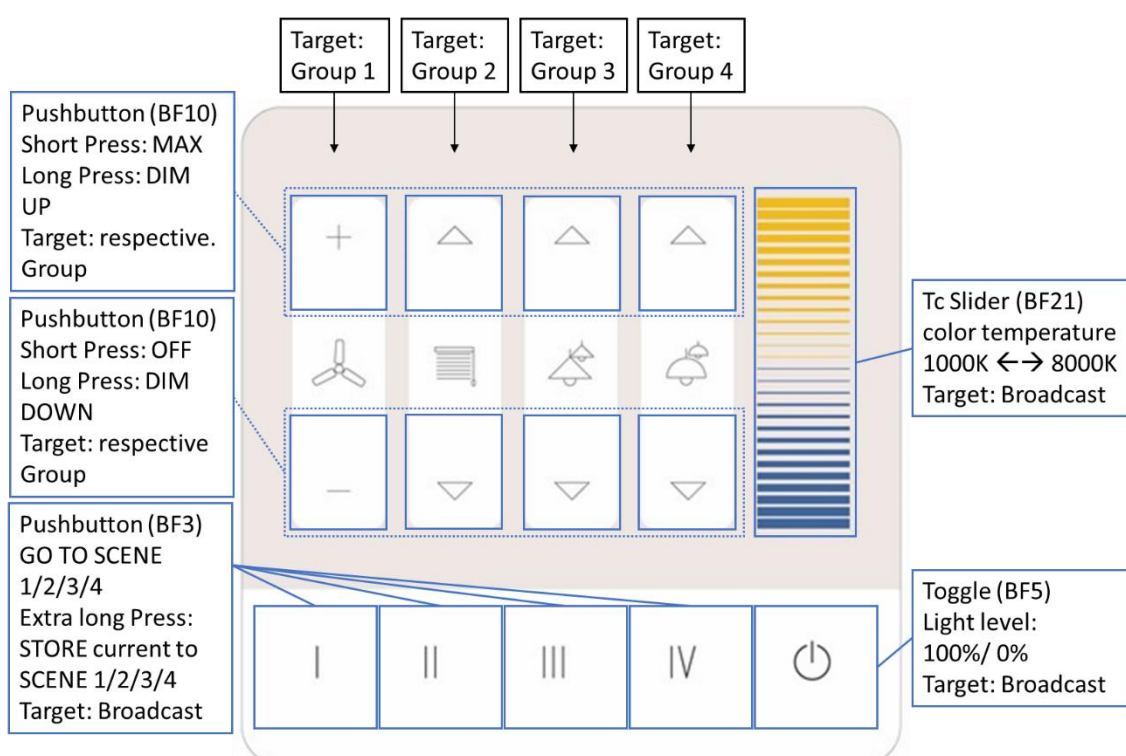
Layout Art. Nr.: G05A 4 groups separately dimmable with arrows & tunable white slider



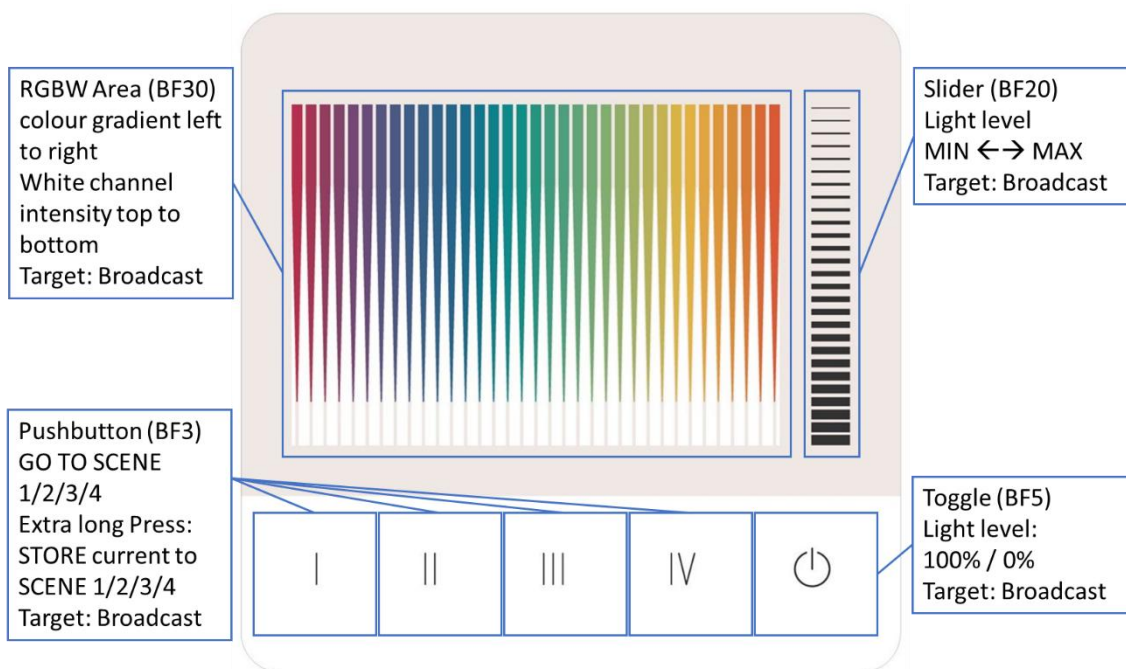
Layout Art. Nr.: G06A brightness Slider & RGB slider



Layout Art. Nr.: G07A 4 groups on/off, brightness slider, RGB slider



Layout Art. Nr.: G08A 4 groups separately dimmable with arrows & tunable white slider



Layout Art. Nr.: **G09A** brightness slider & RGBW slider

Purchase information

Art. Nr. 24035410-G__

GTIN 9010342013089

DALI-2 Touchpanel 03

please indicate the desired Layout: G01A to G08A below.

Art. Nr. 24035410-PS-G__

DALI-2 Touchpanel 03 PS

Version with integrated DALI-PS 70mA

please indicate the desired Layout: G01A to G08A below.

Device version with LEDs: [DALI-2 Touchpanel 04](#)

Online Layout Configurator:

<https://configurator.lunatone.com/touchpanel?lang=en>

Glass Standard layouts

Various layouts, overview:

https://www.lunatone.com/wp-content/uploads/2020/11/DALI-2-Touchpanel-Layouts_EN.pdf

Art. Nr. 24035410-**G000**

unprinted glass

GTIN 9010342013652

Art. Nr. 24035410-**G01A**

dimming, 4 scenes

GTIN 9010342013669

Art. Nr. 24035410-**G02A**

dimming, 4 scenes, 4 groups

GTIN 9010342013676

Art. Nr. 24035410-**G03A**

dimming, 4 scenes, tunable white

GTIN 9010342013683

Art. Nr. 24035410-**G04A**

dimming, 4 scenes, tunable white, 4 groups

GTIN 9010342013690

Art. Nr. 24035410-**G05A**

dimming, 4 scenes, tunable white, 4 groups

GTIN 9010342013706

Art. Nr. 24035410-**G06A**
dimming, 4 scenes, colour RGB
GTIN 9010342013713

Art. Nr. 24035410-**G07A**
dimming, 4 scenes, colour RGB, 4 groups
GTIN 9010342013720

Art. Nr. 24035410-**G08A**
dimming, ceiling fan, blinds, 2 groups,
tunable white, 4 scenes
GTIN 9010342013737

Art. Nr. 24035410-**G09A**
dimming, 4 scenes, colour and white RGB
GTIN 9010342013843

Glass sample sets:

Art. Nr. G000
3 pieces of clear, unprinted glasses

Art. Nr.: G01A - Art. Nr.: G14A
Sample set of 3 pieces of according glasses

Art. Nr.: GMIX5
Set of 5 glasses - please state the desired
article numbers (Art. Nr.: G01A - Art. Nr.:
G14A)

Additional Information and Equipment

Touchpanel Layout configuration files for the
DALI cockpit
[https://www.lunatone.com/wp-
content/uploads/2021/03/TouchpanelLayout-
KonfigFiles.zip](https://www.lunatone.com/wp-content/uploads/2021/03/TouchpanelLayoutKonfigFiles.zip)

DALI-Cockpit – DALI system configuration tool,
free when using a Lunatone interface device
[https://www.lunatone.com/en/product/dali-
cockpit/](https://www.lunatone.com/en/product/dali-cockpit/)

Lunatone DALI products
<https://www.lunatone.com/en>

Lunatone Datasheets and Manuals
[https://www.lunatone.com/en/downloads-a-
z/](https://www.lunatone.com/en/downloads-a-z/)

DALI-2 Instancemode Information sheet
[https://www.lunatone.com/wp-
content/uploads/2021/10/DALI-2_Instance-
Guide_EN_M0024.pdf](https://www.lunatone.com/wp-content/uploads/2021/10/DALI-2_Instance-Guide_EN_M0024.pdf)

Contact

Technical Support: support@lunatone.com

Requests: sales@lunatone.com

www.lunatone.com



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.