



DALI Touchpanel



Datasheet

Control Module

Multifunctional DALI control module
with flexible layout

Art. Nr. 24035465

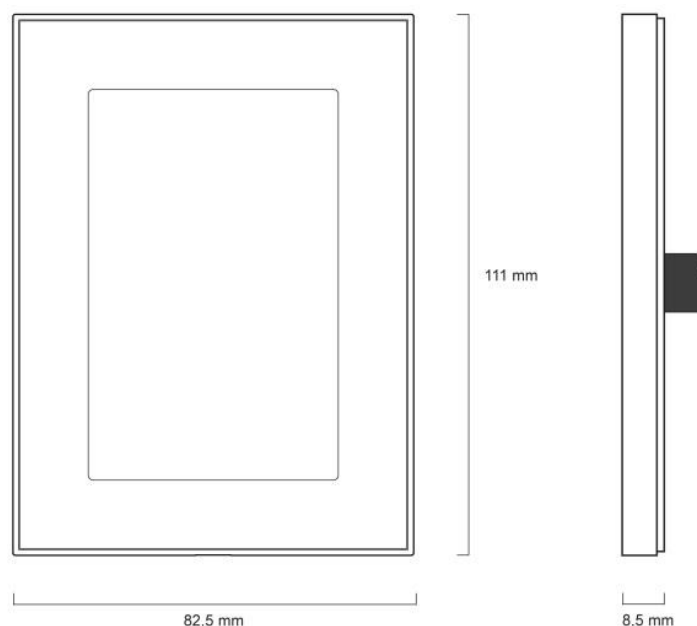
DALI Touchpanel Control Module

Overview

- Control device for DALI-systems
- 4 standard layouts for colour and colour temperature control and Switching/Dimming
- Individual layout configuration (up from firmware 4.8)
- Configuration with DALI-Cockpit software tool and DALI-USB interface
- Multimaster capable - multiple touch panels can be installed on the same DALI-line.
- Frame material in plastic
- Customized frame colours and directly printed surface for OEM
- The DALI touch panel can be mounted on a conduit box.
- The module is supplied directly via the DALI signal line

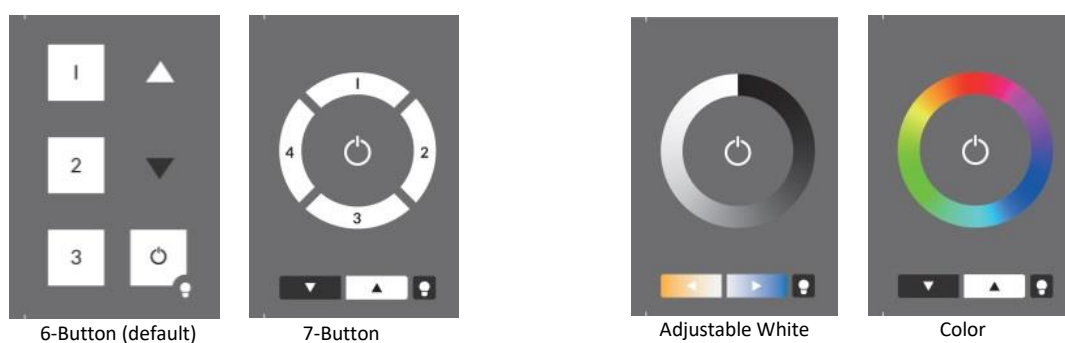
Specification, Characteristics

type	DALI Touchpanel
article number	24035465
electrical data	
supply	via DALI-line
typ. current consumption	4 mA
output	DALI
function	configurable
technical data:	
storing and transportation temperature	-20°C ...+75°C
operational ambient temperature	-20°C ...+75°C
protection class	IP20
maximum connection wire crossection	2.5 mm ²
geometry	111mm x 83mm x 9mm
material of housing	ABS
frame colour	white, RAL 9010



geometry

standard-layouts (designs included in delivery – customized design can be used as well:



Installation

The DALI Touch is connected directly to the DALI-line. The current consumption is about 4mA. The connection to the DALI-line is polarity free.

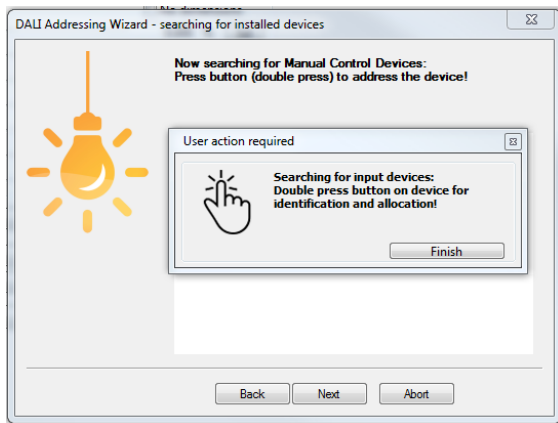
The DALI Touch can be mounted on a installation box.

required for installation and can be removed afterwards.

During the installation process a user action is required for device identification. Please doubleclick the touchscreen on request.

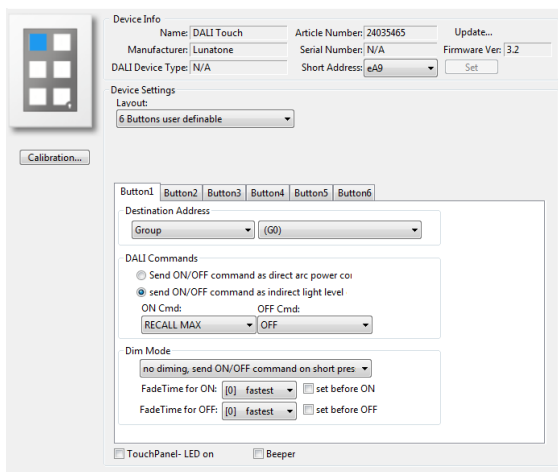
Addressing and Configuration

With the help of a DALI-USB interface the DALI Touch can be configured with the DALI-Cockpit software tool. The interface is only



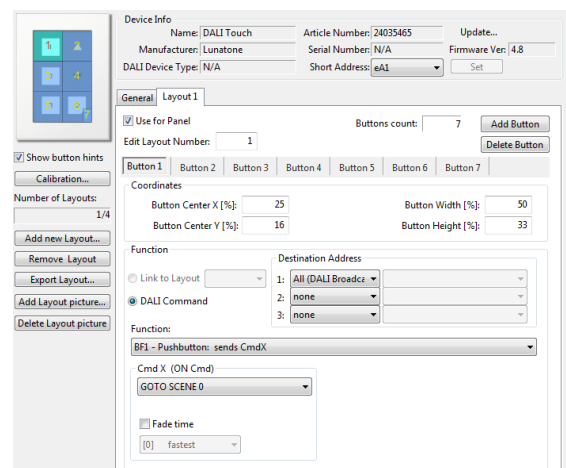
The DALI Touch will be recognized and an address will be assigned. Afterwards the device can be configured.

Configuration Site (Firmware <4.8):



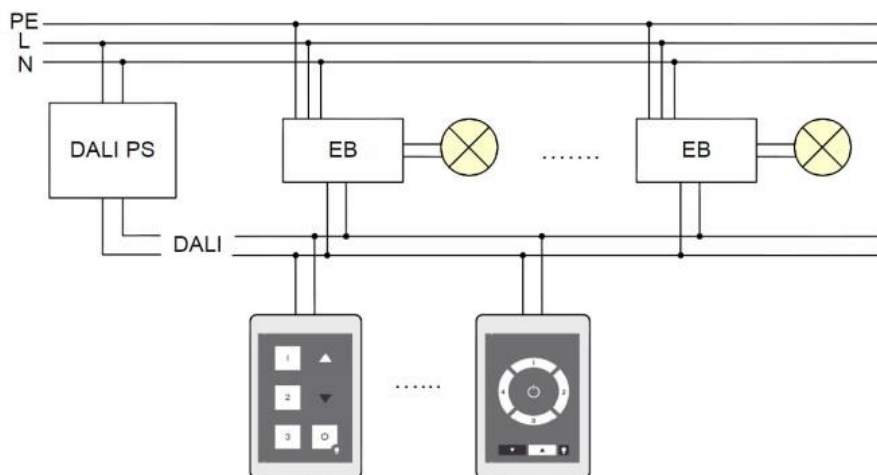
The layout can be selected in the dropdown menu. The corresponding layout card can be inserted in the panel.

Configuration Site (Firmware >=4.8):

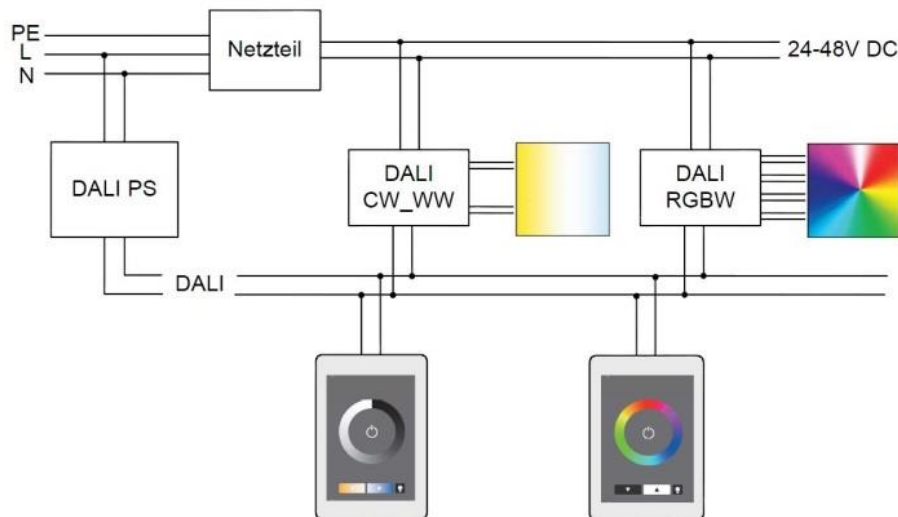


The standard layouts are still available as preset. Alternatively layouts can be generated individually by the customer, i.e, buttons can be arranged and functions can be assigned to each button. An appropriated layout card can be inserted like the standard cards..

Standard and new layouts can be selected with the „Add New Layout“ menu. Up to 4 layouts can be stored in the touchpanel. The used layout has to be activated by checking „Use For Panel“. For details please check the manual.



typical structure for the control of scenes and groups



structure for the control of colour/colourtemperature

Purchase Order Information

ArtNr. 24035465: DALI Touch, input device,
ABS-frame

Additional Information

Datasheets and manuals

<https://jumitech/produkte>

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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

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Contact

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



DALI Touchpanel Bluetooth 4.0



**Datasheet
Control Device**

DALI Touchpanel with Bluetooth
Low Energy Interface for controlling
DALI-systems by mobile devices

Art. Nr. 24035465-BT

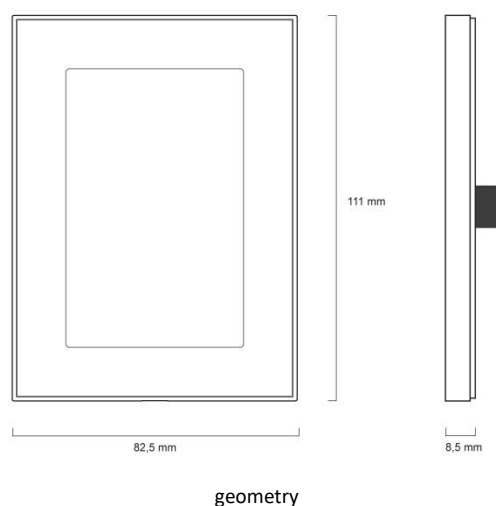
DALI Touchpanel Bluetooth 4.0 Control Device

Overview

- DALI Touchpanel with Bluetooth 4.0 interface
- DALI-System control via Panel or via Android or IOS mobile device
- App for IOS and Android available
- all bluetooth moduls within the reception area will be listed for selection
- up to 32 layouts configurable
- 5 preset designs available for color and colortemperature control as well as for switching and dimming with free configurable buttons
- Pin-code protection
- Configuration of the DALI Touch BT with DALI-Cockpit software tool und DALI-USB Interface
- Individual layout configuration: button arrangement and configuration of functions
- As function a link to another layout or a DALI-command can be assigned to each button
- A short address, a group address or broadcast can be defined as effective range for each DALI command
- Multi master capable, more than one module can be installed on a DALI-line
- The module is supplied by the DALI-line

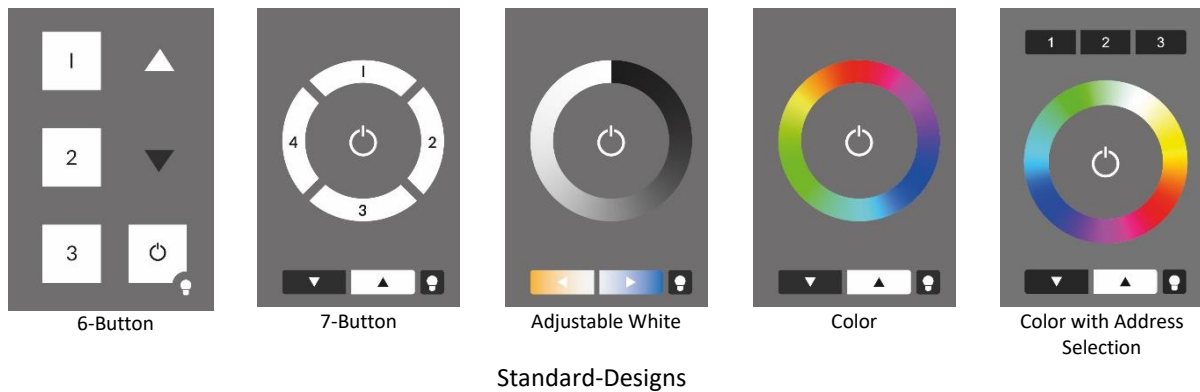
Specification, Characteristics

type	DALI Touchpanel BT 4.0
article number	24035465-BT
power supply	via DALI-line
typ. current consumption	4 mA
output	DALI
layout	selectable
function	configurable
storing temperature	-20°C ... +75°C
operational ambient temperature	-20°C ... +75°C
protection class	IP20
connecting wire cross section	0.5-1.5 mm ²
geometry (LxBxH)	111x82x9 mm
material	ABS
color	RAL9010



Bluetooth 4.0: Low Energy





Installation

The DALI Touchpanel BT is supplied directly via the DALI signal line by the DALI-line power supply (current consumption <4 mA). The connection is polarity-free and protected against overvoltage (mains).

The DALI Touch BT can be easily mounted on an installation box.

Addressing and Configuration

With the help of a DALI USB interface and the DALI-Cockpit software tool the module can be configured easily.

During addressing the module is detected and listed in the component tree. The free DALI Cockpit software tool can be downloaded from the Lunatone website and can be used for commissioning for DALI ballasts as well as for the DALI Touch BT control device. DALI-Cockpit and DALI-USB interface are not required for standard operation and can be removed after installation is finished.

Adjustable Settings

The DALI circuit is controlled either via the touch panel or via an IOS or Android mobile device.

The app allows access to all DALI Touch BT modules in the reception area.

While only one layout can be controlled on the panel itself, the app offers the possibility to switch between different layouts.

These layouts are defined using the DALI cockpit. Up to 32 layouts can be created, one of them must be assigned to the physical panel.

Up to 12 keys can be defined in each layout. The position and size of each button is as configurable as the function.

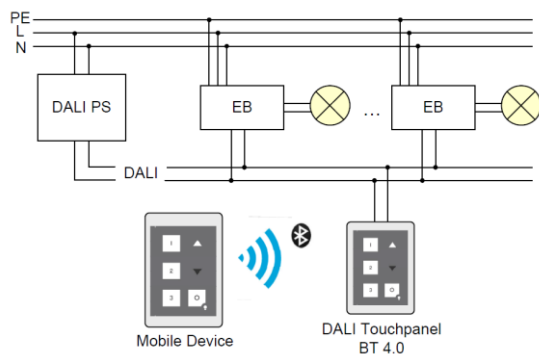
The function basically distinguishes between switching to a different layout ("Link" function) and a control action for the DALI circuit.

For an action for the DALI circuit the effective range (single address, group address, broadcast) and the corresponding DALI command or a predefined or self-defined DALI command sequence (macro) has to be defined.

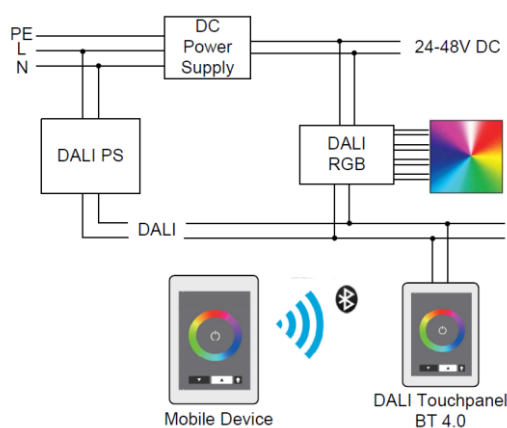
An additional feature is the pin-code protection.

By changing app images the layouts can be customized by each user.

Due to the reception radius of the Bluetooth connection (about 10 m), the module is preferably suitable for controlling individual rooms or zones.



typical structure: scene and group control



typical structure: color and colortemperature control

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

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DALI Display 7"



Datasheet **DALI Control System**

DALI control device for lighting
management of 2 DALI lines

Art. Nr. 86458626

DALI Display 7" Control Device

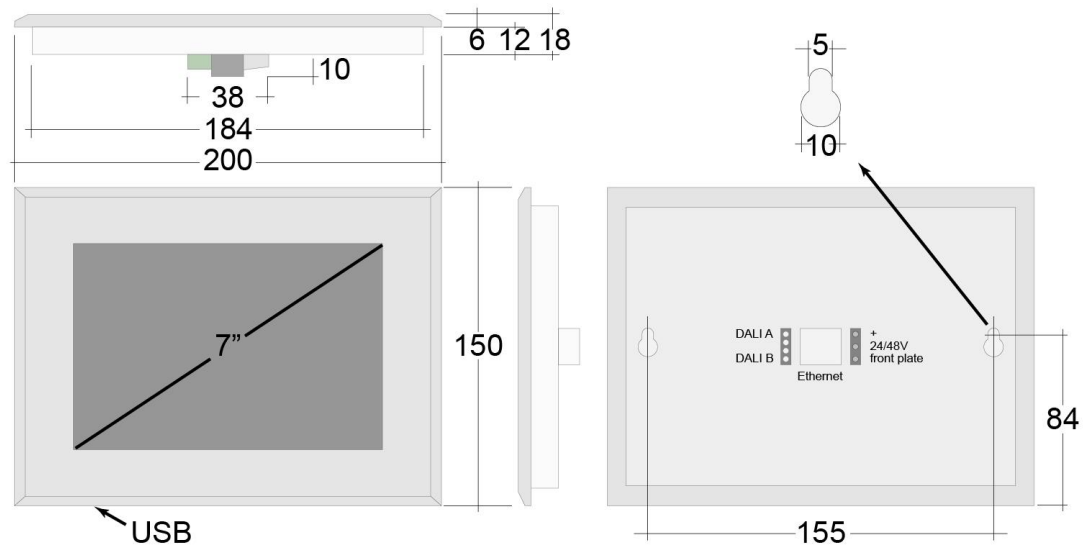
Overview

- Control device and human machine interface for DALI-systems with up to 128 DALI ballasts (2 DALI lines)
- Addressing and Grouping of DALI systems
- Start-up, control and operating unit
- Manual or timed scene recall with a maximum of 99 sequences
- Day by day sequence program (schedule)
- Tunable white and colour control (DT8 compatible)
- Recall of circadian daylight curves (Human Centric Lighting)
- User defined labelling of scenes, groups, sequences and schedules. User defined backgrounds
- Possibility to build customized sites
- 7 inch colour touch screen (800x640 pixel)
- Background lighting with RGB LEDs
- USB and Ethernet interface
- Can be remote-controlled via internet browser
- PoE capable

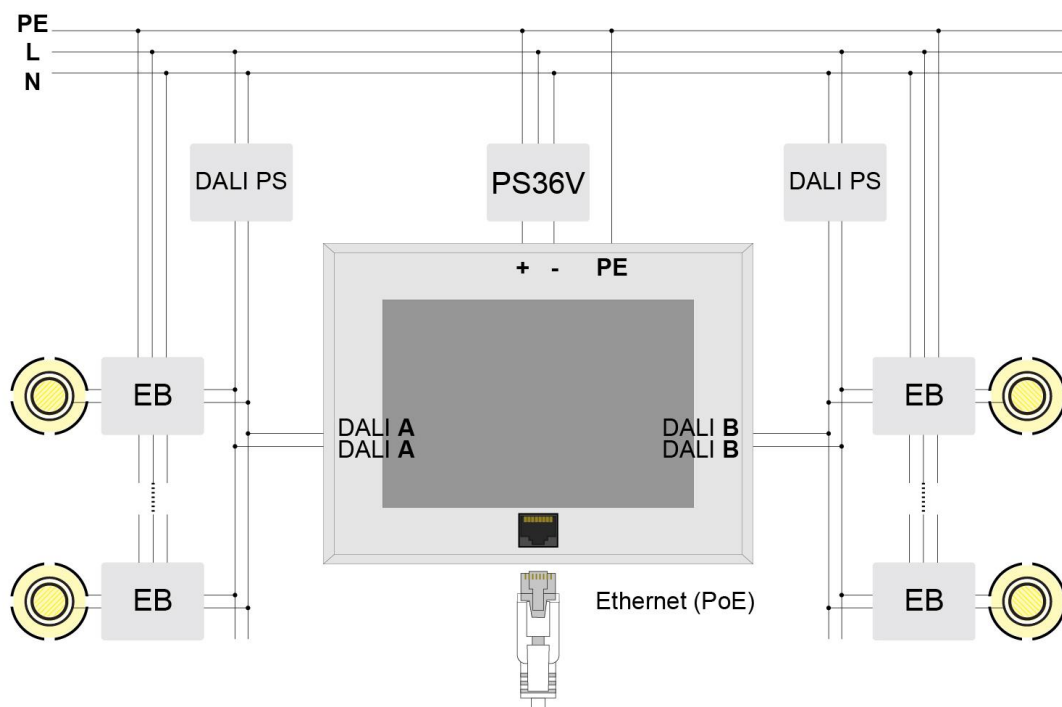
Specification, Characteristics

type	DALI Display 7"
article number	86458626
Electrical data:	
Rated supply voltage mains adapter (included)	230-240VAC
Mains frequency mains adapter	50/60Hz
Rated supply voltage DALI Display 7"	24-48V DC
Power consumption	10W
Number of DALI lines	2
Current consumption of each DALI-line	2mA
Interface	2xDALI, USB, Ethernet
Mechanical data:	
Ambient temperature	0-50°C
Type of protection	IP20
Dimensions L x W x H	200 x 150 x 20 mm
Touchscreen size	7"
Touchscreen pixel	800 x 640
Colours	64k

DC adapter "PS 36V" included
external DALI power supply needed, simply fixing with 2 screws



geometry



typical installation

Installation

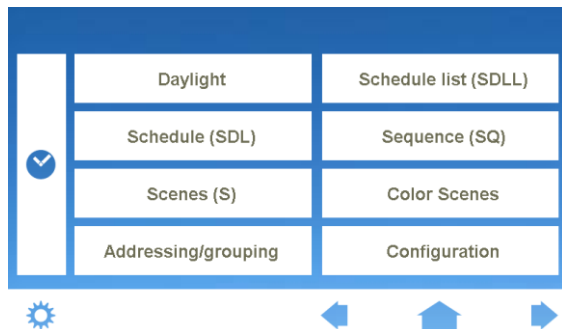
The DALI Display can be connected to two DALI circuits (DALI-A, DALI-B). Each of these DALI circuits needs one Power Supply (DALI PS). The current consumption of the Display on each DALI-line is 2mA. The connection to the DALI terminals can be done without greater attention towards polarity. The device is secured against mains voltage (over voltage).

The DC-adapter to supply the DALI Display is part of the delivered package. As an alternative the device can be supplied via PoE or Ethernet.

The device can be easily mounted with two screws. (see Display geometry)

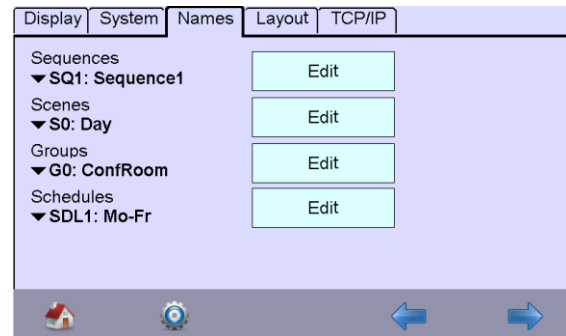
Functions and Features

The configuration of the DALI Display can be done in the settings:

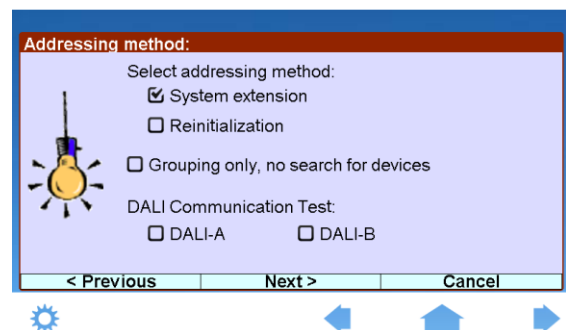


The settings which effect the DALI Display directly can be found in the "Configuration" menu. These are e.g. Language, Design, Background Lighting, Activation/Deactivation of Sites, Network Settings etc.

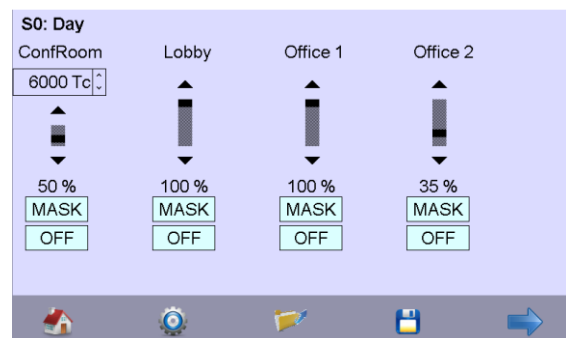
One important feature for customizing the system is the naming of groups and scenes which can be done in the Names menu.



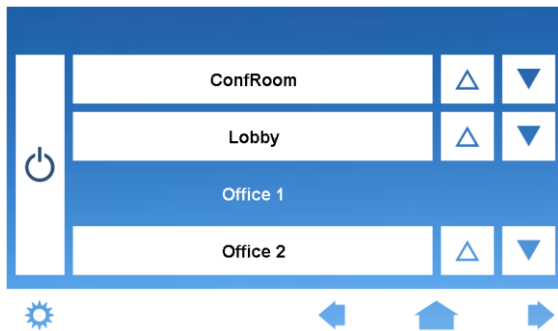
To address the 2 DALI circuits the device supports new addressing as well as a method for system expansion.



The detected devices can be grouped, for each group scene values can be set.



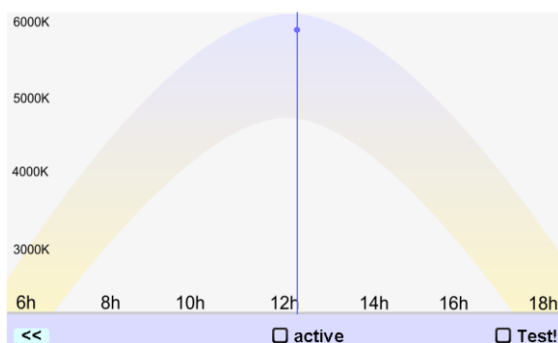
After finishing all configuration, groups and scenes can be retrieved in the standard display mode. Each of these standard sites can be deactivated or replaced by individual sites.



Beside these basic functions the DALi Display offers the possibility to automatically retrieve scenes in sequences. (up to 99 sequences can be saved)

Furthermore sequences and scenes can be embedded time-controlled in a day schedule.(up to 7 schedules are possible)
Based on these schedules a week plan can be made, for each day one of the seven schedules can be used.

Human Centric Lighting / Circadianer daylight-curve



The DALI Display allows room-lighting based on the average daylight-curve using DALI DT8 luminaries (mode Tc). Depending on the current time the light changes to a warmer/cooler colour temperature.

Setting colour scenes for DT8 RGB luminaries



The DALI Display supports DALI DT8 RGB luminaries. The device allows to set RGB-values for scenes. During the colour selection the current settings are simulated by the active light-group, the settings can be saved afterwards. Using these scenes different colour-settings can be realized.

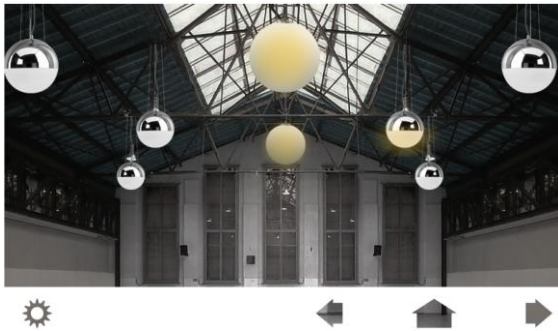
Customized Layouts

The standard display sites can be customized with 3 standard background images, or a personal image can be uploaded. Same applies to the screen safer.

Additionally sites can also be completely customized. They can be ordered via Lunatone or made by oneself.

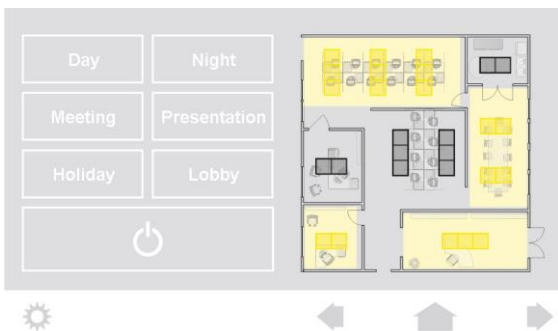
The Upload of customized files can be done via USB or Ethernet. For details please check the DALI Display Manual.

Examples for customized pages:



Custom1: Image of a room, the luminaries in the image can be turned on and off, by touching the luminary on the display. The display shows the current status of the lamp.

The feedback currently on/currently off is especially helpful in situations when the display is used to operate several rooms. As shown in following example:



Custom2: Room-overview of an office, several scenes can be retrieved. In the room-plan the current light situation is displayed. The lighting of a room can be adjusted by pressing the room, or a scene-button.

For details to the configuration please check the DALI Display Manual.

Purchase Order Information

Art.Nr. 86458626: DALI Display 7" – DALI control device for 2 DALI lines

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

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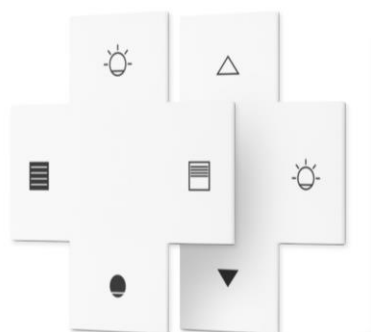
DALI Switch Cross



Datasheet

Multifunctional Switch Module

DALI control unit with four programmable pushbuttons



Art. Nr. 86459793-W

Art. Nr. 86459793-W16

Art. Nr. 86459793-B

Accessory:

cross plates with symbols

Art. Nr. 86459793-Z00

Art. Nr. 86459793-Z01

Art. Nr. 86459793-Z02

DALI Switch Cross Multifunctional Switch Module

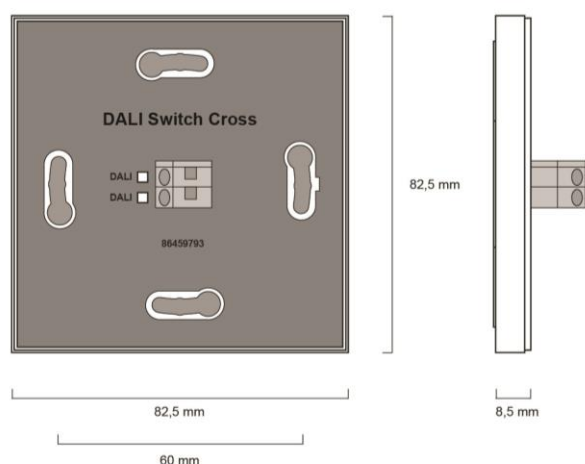
Overview

- 4 configurable pushbuttons
- freely assignable functions (DALI-commands)
- The DALI Switch can control DALI systems without any configuration effort by using the factory settings.
- Individual addresses (0-63), group addresses (0-15) or broadcast
- Different switching modes can be assigned to each pushbutton (short, long press; toggle; etc.)
- 4 effective areas with individual functions can be assigned to each pushbutton
- DALI DT8 support for adjustable white luminaires
- Configurable „power-up“-function.
- Memory function for brightness
- Easy configuration via DALI USB and DALI Cockpit Software tool
- Multiple DALI Switches can be used on the same DALI signal line
- Mounting on cavity walls or conduit boxes
- supplied via DALI signal line

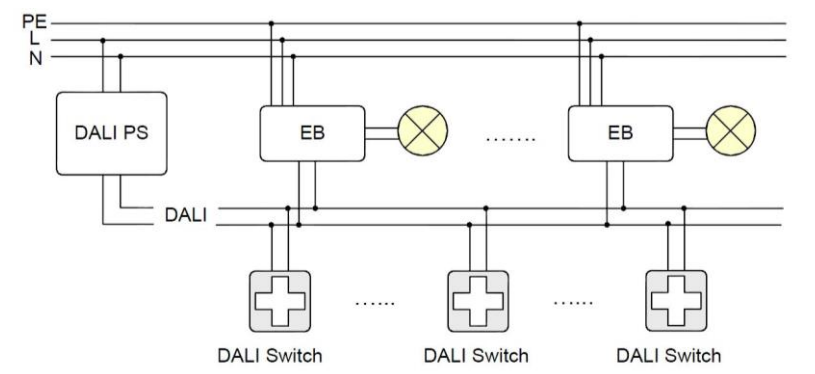
Specification, Characteristics

type	DALI Switch Cross		
article number	86459793-W	86459793-W16	86459793-B
electric data:			
supply	via DALI signal line		
typ. current consumption	1.5mA		
output	DALI		
control input	4 programmable push buttons		
technical data:			
behaviour after power failure	configurable		
storing and transportation temperature	-20°C...+75°C		
operational ambient temperature	-20°C...+75°C		
protection class	IP20		
connecting wire cross section	up to 2.5 mm²		
dimensions	82mm x 82mm x 8,5mm		
mounting	wall mounting		
colour	pure white (RAL9010)	traffic white (RAL9016)	black

dimensions:

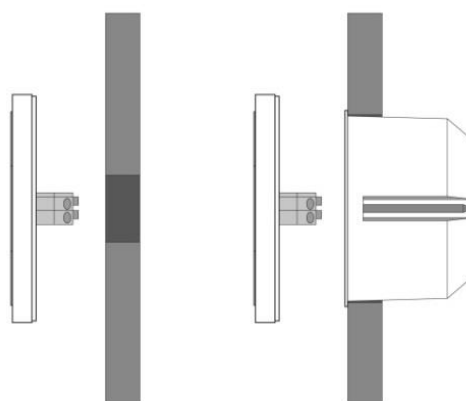


typical installation:



Installation

- The DALI Switch is directly powered by the DALI line (typical current consumption 1.5mA.)
- The connection to the DALI-line is polarity free
- The input is overvoltage protected (up to 270Vac)
- Mounting on cavity walls or conduit boxes

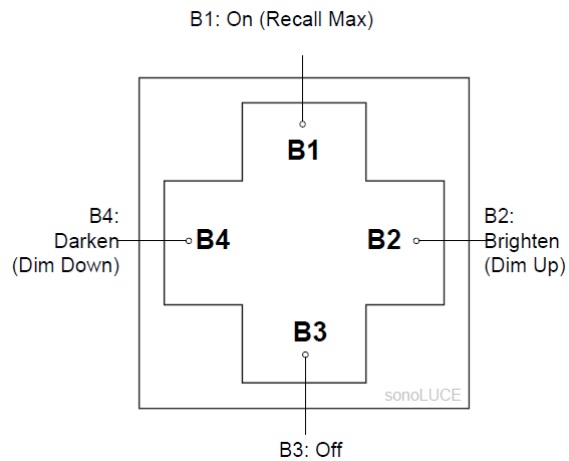


mounting with/without flush-mounted box

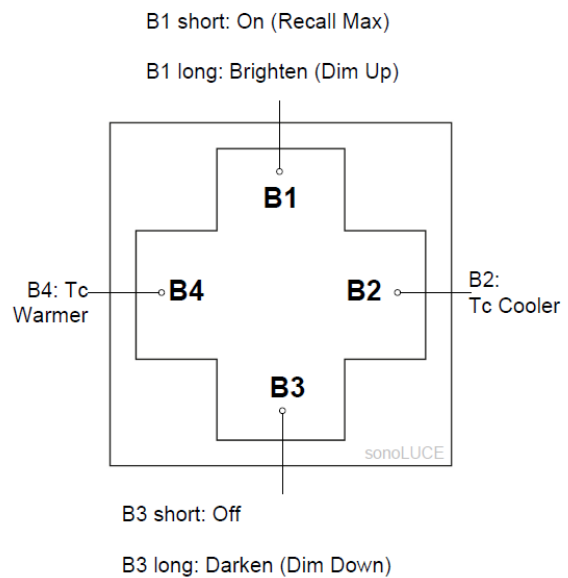
Function

- Easy addressing with DALI USB and DALI Cockpit Software tool
- Factory settings (Preset1) can be restored with DALI Cockpit
- Preset2 for colour temperature settings can be configured via DALI Cockpit
- individual configuration via DALI-Cockpit Software tool
- selection of DALI commands, predefined and customisable macros
- predefined macros for dynamic and sequential scene recall, colour temperature control and memory function.
- settings for behaviour and delay after power failure can be defined (no change, OFF, Scene 0-15)
- additional operating modes to include the switch in a central control system.

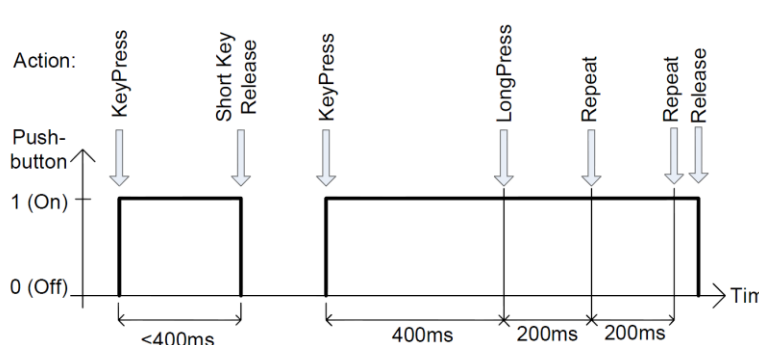
Preset1: switch & dim (factory settings)



Preset2: switch & dim, colour temperature control



Setting options for the pushbuttons of DALI Switch Cross:



Definition:

pushbutton	duration	
	min	max
short	40 ms	400 ms
long	>400 ms	

button-function	key press	release after short press	long press	repeat	remarks
0	-	-	-	-	-
1	CmdX	-	-	-	sends CmdX on key press
2	CmdX	-	CmdY	-	sends CmdX on key press sends CmdY after long press delay
3	CmdX	-	CmdY	CmdY	sends CmdX on key press sends CmdY with 200ms repetition after long press delay
4	CmdX / CmdY toggle	-	-	-	sends CmdX and CmdY alternating on key press
5	CmdX / CmdY toggle	-	-	-	CmdX/Y depending on bus status
6	-	CmdX / CmdY toggle	ON and STEPUP	UP / DOWN	CmdX/Y depending on bus status , UP/DOWN alternating, ON AND STEPUP, if bus state is OFF before UP
7	-	-	-	-	-
8	-	-	-	-	-
9	CmdX	-	-	-	Staircase control. CmdY is sent after a programmable delay.
10	-	CmdX	CmdY	CmdY	CmdX after short press, CmdY for repeat
11	CmdX	-	-	CmdY	CmdX with repeat; repeats CmdY without long press delay
12	CmdX	CmdY	-	CmdX	CmdX with repeat; if button is released within short press time, CmdY is finally sent



Note: When using overlapping effective areas a correct evaluation of the lighting state (bus status) is no longer guaranteed.



Note: All effective areas assigned to one specific push button will receive the same DALI commands.

Settings for CmdX/CmdY

CmdX and CmdY refer to commands and command sequences which are triggered by the switching actions. Following options:

- DALI commands
- predefined macros (sequence of commands)
- user defined macros

DALI-commands:

command number	command name	function
-	DIRECT ARC POWER	direct arc power Level in %
0	OFF	off
1	UP	dim up (using fade rate)
2	DOWN	dim down (using fade rate)
3	STEP UP	increases light level by one increment
4	STEP DOWN	decreases light level by one increment
5	RECALL MAX	recalls MAX value
6	RECALL MIN	recalls MIN value
7	STEP DOWN AND OFF	decreases light level by one increment, if value at MIN switch off
8	ON AND STEP UP	increases light level by one increment, if OFF switch on
10	GOTO LAST ACTIVE LEVEL (DALI 2)	command for DALI2 ballasts: turns on to the last active value (firmware 2.0 and up)
16-31	GO TO SCENE	go to scene 0-15

Macros:

macro number	macro (required memory)	function
M1	Go Home (2 Byte)	light dims down to 0 with a predefined fade-time, after completion next fade-time can be transferred
M2	Sequential Scenes (3Byte)	with each key push the scene will be switched, the list of scenes can be customized
M3	Dynamic Scenes (33 Byte)	dynamic sequence up to 16 scenes, fade-time and delay (0-254s) can be defined, stops with next button press
M4	DALI-Reset (1 Byte)	send command DALI reset (optional: delete addressing)
M5	User Defined Cmd-List (5 Byte je Befehl, 19 Befehle max.)	Loading of user defined macro-file
M6	3x Cooler (DT8) (0 Byte)	activates DT8 and recalls 3x the command STEP COOLER (Firmware 1.4 and up)
M7	3x Warmer (DT8) (0 Byte)	activates DT8 and recalls 3x the command STEP WARMER (Firmware 1.4 and up)
M8	Memory Switch On (4 Byte)	MEMORY FUNCTION Turns on to the last active value, use only in combination with 'Memory Switch Off' (Firmware version 1.8 and up)
M9	Memory Switch Off (3 Byte)	MEMORY FUNCTION saves the current value and turns off (Firmware version 1.8 and up)
M10	Memory Dim Up (after Switch Off) (3 Byte)	MEMORY FUNCTION enables dimming from turned off state up to MAXLEVEL, after having turning off with 'Memory Switch Off' (Firmware version 1.8 and up)

M11	Tc Cooler abs (DT8) (1 Byte)	reduces colour temperature for a preset value (2-10Mirek), the absolute value is saved in the device (default=250 Mirek =4000K), (Firmware version 1.14 and up)
M12	Tc Warmer abs (DT8) (1 Byte)	increases colour temperature for a preset value (2-10Mirek), the absolute value is saved in the device (default=250 Mirek =4000K), (Firmware version 1.14 and up)



Note: For each push button a macro memory of max 96 bytes is available. Those can be divided on commands X and Y. The sum of CmdX and CmdY must not exceed 96 bytes. (the necessary memory is listed in the table above in the second column)

Memory function

DALI Switch Cross support several memory functions.

Method 1: Macros M8-M10, the current level is being saved as MAX-LEVEL before turning 'off', when turned 'on' the MAX-LEVEL (=last active level) is recalled, in addition the 'old' MAX-LEVEL is restored (Firmware version 1.14 and up)

Method 2: Support of DALI 2.0 command Nr. 10 - GOTO LAST ACTIVE LEVEL. Suitable for ballasts that support these commands (Firmware version 2.0 and up)

Method 3: A scene can be used a temporary storage. Before turning 'off' the current level is being saved as SCENE-VALUE, when turned 'on' this SCENE VALUE (=last active level) is being recalled.

DALI-Cockpit

With the use of the DALI Cockpit Software the functionality of each individual push button can be set. The available settings are decided in the following two groups: effective area (destination addresses) and functions (switching options, detail settings of button behaviour).

Operating modes

Besides the standard use as an active control device (direct control of ballasts in the DALI line → Master Mode), the DALI Switch Cross can be used in central control systems. Therefore two additional operating modes are offered: Slave Mode und Event Message Mode.

Master Mode (Default)

In this operating mode the DALI Switch functions as DALI control device and sends event triggered DALI commands to DALI addresses, as defined in the setup.

Event Message Mode

This mode enables the recall of predefined event commands within the framework of a proprietary protocol extension. The results

can be analysed by a central control unit. The light is not being controlled directly.



Note: every command (DALI or proprietary protocol extension) can be defined in the Master mode by the user in a custom command list (Macro M5)

Slave Mode

The DALI Switch will only answer on queries, it is not active by itself. The change can be set in the DALI Cockpit.

Purchase Order Information

ArtNr. 86459793-W: DALI Switch, DALI Control Device with 4 configurable pushbuttons, RAL9010

ArtNr. 86459793-W16: DALI Switch, DALI Control Device with 4 configurable pushbuttons, RAL9016

ArtNr. 86459793-B: DALI Switch Black, DALI Control Device with 4 configurable pushbuttons, black

ArtNr. 86459793-Z00: cross plate with customized symbols

ArtNr. 86459793-Z01: cross plate with symbols for dimming

ArtNr. 86459793-Z02: cross plate with symbols for dimming and blinds
WAGO-system compatible version available:
ArtNr. 86459793-WA-W (White)
ArtNr. 86459793-WA-B (Black)

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

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

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

Technical Support: support@jumitech.dk

Requests: alg@jumitech.dk

www.jumitech.dk

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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.



DALI Switch Cross WAGO

Datasheet Multifunctional Switch Module

DALI control unit with four
programmable pushbuttons for
WAGO systems

Art. Nr. 86459793-WA-W (white)

Art. Nr. 86459793-WA-B (black)

DALI Switch Cross WAGO Multifunc. Switch Module

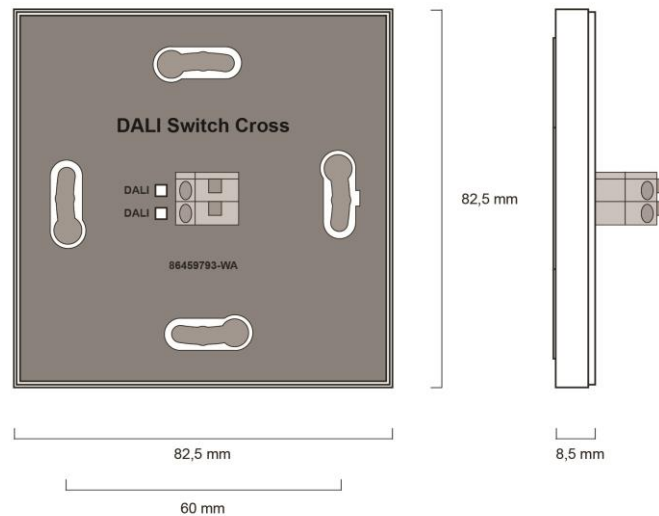
Overview

- 4 configurable push buttons
- compatible with WAGO systems
- the DALI Switch Cross transmits event messages to the WAGO-System (central control)
- multi-master capability - several DALI Switch Cross can be used on the same DALI-line
- mounting on cavity walls or conduit boxes
- supplied via DALI signal line

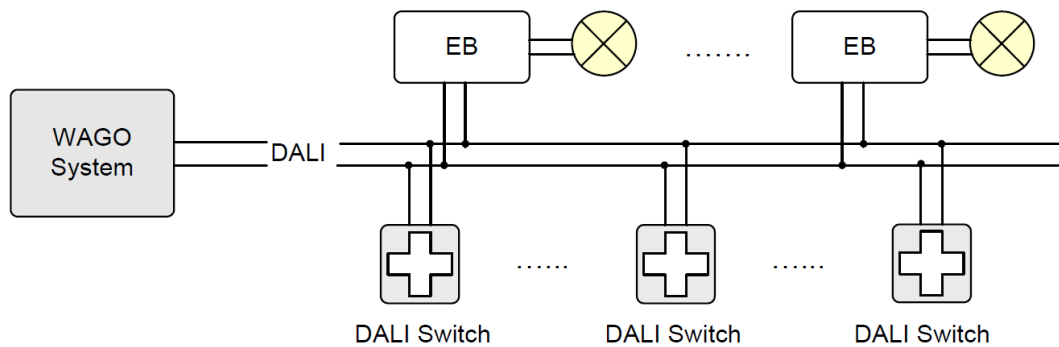
Specification, Characteristics

type	DALI Switch Cross Wago (white)	DALI Switch Cross Wago (black)
article number	86459793-WA-W	86459793-WA-B
electric data:		
supply	via DALI signal line	
typ. current consumption	1.5mA	
output	DALI	
control input	4 programmable push buttons	
Behaviour after power failure	Configurable via WAGO-system or DALI Cockpit	
mechanic data:		
dimensions (W/H/L)	82mmx82mmx8,5mm	
housing type	wall mounting	
connecting wire cross section	up to 2.5 mm²	
permitted ambient temperature	-10°C...+50°C	
protection class	IP20	
colour	white	black

Housing type: wall mounting

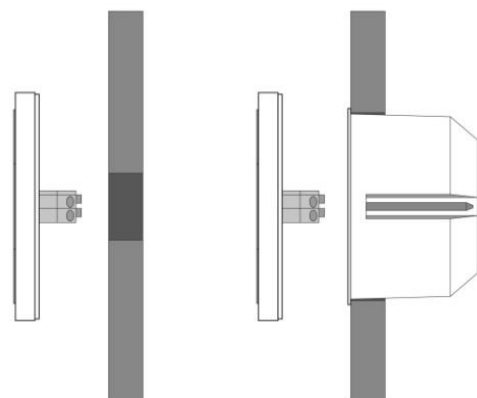


typical installation:



Installation

- The DALI Switch is directly powered by the DALI line (typical current consumption 1.5mA.)
- The connection to the DALI-line is polarity free
- The input is overvoltage protected (up to 270Vac)
- Mounting on cavity walls or conduit boxes
- Easy addressing and configuration with WAGO system (central control)
- As alternative an individual configuration can be setup with the help of the DALI-Cockpit software tool



Mounting with/without flush-mounted box

Additional Information

Datasheets and manuals

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from

Lunatone for DALI systems

<http://lunatone.at/en/downloads/Lunatone-DALI-Cockpit.zip>

Contact

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