HIGHLIGHTS 2021

THE NEWEST LUNATONE DEVICES FOR DALI AND DALI-2
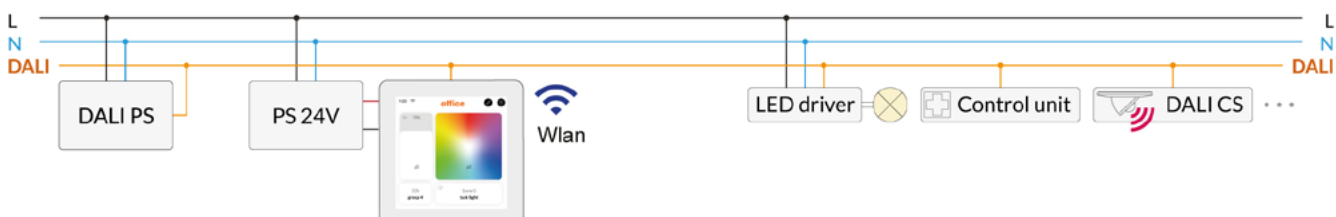
DALI-2 Display 4" und 7"

The capacitive colour display with 24-bit colour depth allows, depending on the model, commissioning as well as control and operation of a DALI system. The display can be individually designed using numerous widgets. Supported functions are dimming and switching of groups, recall of scenes, RGB colour management and colour temperature control. The display has a DALI and a WLAN interface. Depending on the model, it is also possible to measure and display the room temperature, humidity, air pressure, air quality, etc. of the integrated sensors.

NAME	ARTICLE NUMBER	BRIEF DESCRIPTION	INTERFACE	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI-2 Display 7" (white)	86456840-W	configurable control elements for switching, dimming, scenes and colour control	DALI, WLAN, Ethernet	-10 ... +50°C	178×111×8
DALI-2 Display 7" plus (white)	86456840-P-W	configurable control elements for switching, dimming, scenes and colour control, **addressing, time switch, sequencer, circadian daylight schedule**	DALI, WLAN, Ethernet	-10 ... +50°C	178×111×8
DALI Display 4" (white)	86456841-W	configurable control elements for switching, dimming, scenes and colour control	DALI, WLAN	-10 ... +50°C	88×88×8,5
DALI-2 Display 4" plus (white)	86456841-P-W	configurable control elements for switching, dimming, scenes and colour control, **addressing**	DALI, WLAN	-10 ... +50°C	88×88×8,5

Installation example DALI-2 Display 4"

The user interface of the DALI-2 display

The user interface of the DALI-2 display is made up of individual pages (boards) and the operating elements (widgets) on them.

Board
name of the page (board) is displayed on top, any number of boards can be created.

Widgets
control elements with different functions: ON/OFF, dimming, colour temperature, colour, scenes, visualization of sensor values, links to boards, DALI-2 instances, etc.
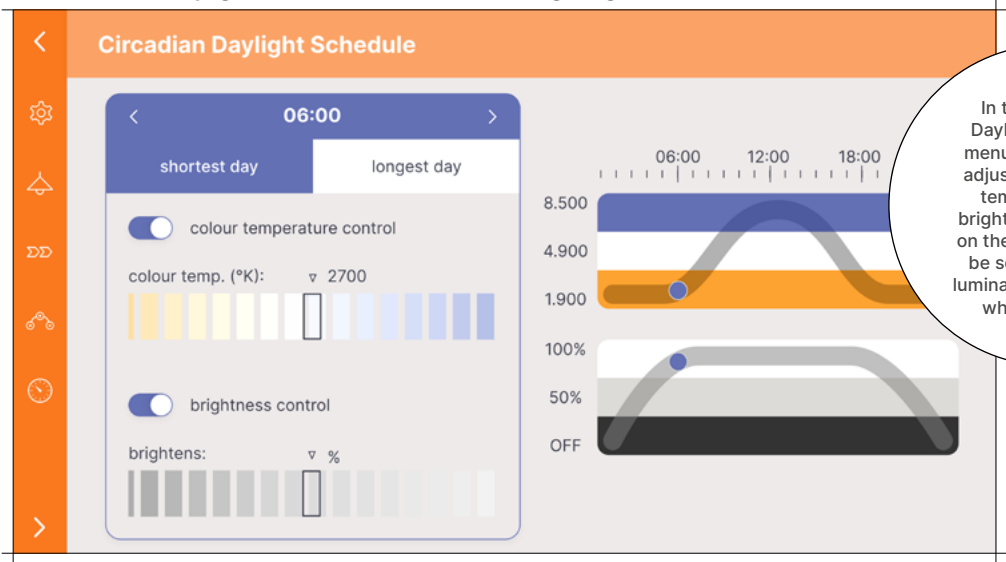
Configuration menu
Settings for boards, general settings, and settings for the DALI system

Editor
for creating and editing boards and widgets

Navigation
move finger up and down on the screen to navigate up and down, swipe right and left to switch between boards

Automation: Circadian Daylight Schedule (Human Centric Lighting) – menu preview DALI-2 Display 7" plus

In the "Circadian Daylight Schedule" menu, the automatic adjustment of colour temperature and brightness depending on the time of day can be set for DALI DT8 luminaires with tunable white capability.

Automation: Sequences - menu preview DALI-2 Display 7" plus
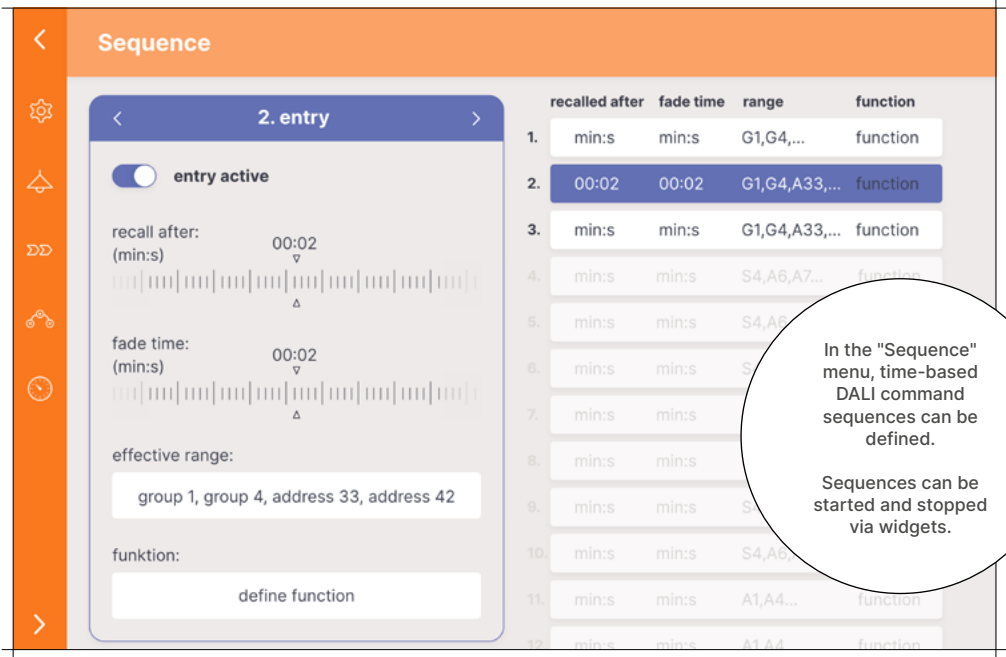
In the "Sequence" menu, time-based DALI command sequences can be defined.

Sequences can be started and stopped via widgets.

DALI-2 Touchpanel

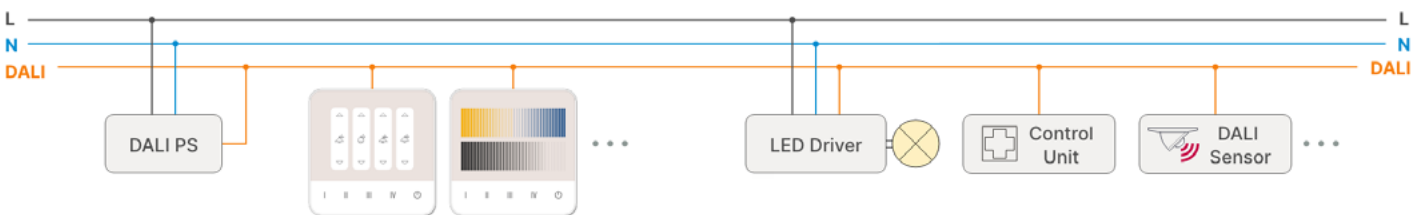The DALI-2 Touchpanel is a multifunctional control unit with up to 16 freely configurable buttons. The number of buttons and the associated DALI commands can be set in the DALI Cockpit Software. The device can be adapted to a wide variety of applications. Several standard user interfaces are available and customer-specific designs can be implemented upon request. In addition to the standard functions of dimming, switching, scene recall, etc., predefined macros such as setting the colour temperature, dynamic scenes and sequences, as well as user defined command lists are supported.
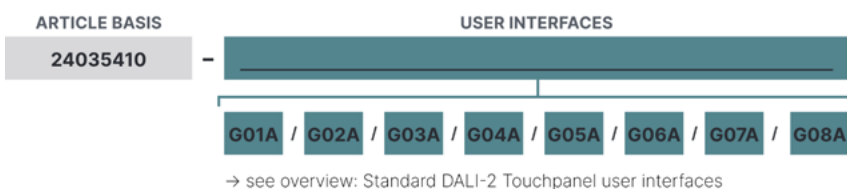
NAME	ARTICLE NUMBER	BRIEF DESCRIPTION	SUPPLY	DIMENSIONS (MM)
DALI-2 Touchpanel	24035410-G__	DALI-2 touch panel with a user interface of choice: G01A to G09A	via DALI line	88×88×9,5
DALI-2 Touchpanel with DALI PS (70mA)	24035410-PS-G__	DALI-2 touch panel with 70mA DALI Bus Power Supply + user interface of choice: G01A to G09A	integrated DALI power supply 70mA	88×88×38,5

Installation example DALI-2 Touchpanel

Part numbering system:

ARTICLE BASIS
24035410

USER INTERFACES

G01A / G02A / G03A / G04A / G05A / G06A / G07A / G08A

→ see overview: Standard DALI-2 Touchpanel user interfaces

Individual design? Use our online configurator or send an inquiry to: customlayout@ lunatone.com

Standard DALI-2 Touchpanel user interfaces:

G01A

Art. Nr.: 24035410-**G01A**
Function: 1 brightness slider, arrow keys for fine adjustment
Menu bar: 4 scenes, on / off

G02A

Art. Nr.: 24035410-**G02A**
Function: 4 groups on / off and dimmable with respective arrow keys
Menu bar: 4 scenes, on / off

G03A

Art. Nr.: 24035410-**G03A**
Function: 1 brightness slider, 1 tunable white slider
Menu bar: 4 scenes, on / off

G04A

Art. Nr.: 24035410-**G04A**
Function: 4 groups on / off, 1 brightness slider, 1 tunable white slider
Menu bar: 4 scenes, on / off

G05A

Art. Nr.: 24035410-**G05A**
Function: 4 groups on/off and dimmable with respective arrow keys, 1 tunable-white slider
Menu bar: 4 scenes, on / off

G06A

Art. Nr.: 24035410-**G06A**
Function: 1 brightness slider, 1 RGB colour slider
Menu bar: 4 scenes, on / off

G07A

Art. Nr.: 24035410-**G07A**
Function: 4 groups on / off, 1 brightness slider, 1 RGB colour slider
Menu bar: 4 scenes, on / off

G08A

Art. Nr.: 24035410-**G08A**
Function: fan, blinds, 2 groups dimmed separately with arrow keys, 1 tunable-white slider
Menu bar: 4 scenes, on / off

G09A

Art. Nr.: 24035410-**G06A**
Function: 1 brightness slider, 1 RGBW colour+white slider
Menu bar: 4 scenes, on / off

Overview DALI Cockpit – User Interface Configuration:

Device Info
Name: DALI2 Touch
Manufacturer: Lunatone
Device Type: -
DALI Ver: -
Article Number: 24035465
Serial Number: 100
Type: Control Device
Short Address: (A0²) DALI2 Touch
GTIN: 9010342013089

show/hide buttons/touch areas in the preview (top left)

load image for the Touchpanel preview (top left)

General | Application | Instances

Add new button
☑ Show buttons
☑ Show touch area
Add picture ×

Button 1 | Button 2 | Button 3 | Button 4 | Button 5 | Button 6

preview: position of the various buttons

settings for each button (max. 16 buttons)

Button Center X [%]: 10
Button Center Y [%]: 90
Button Width [%]: 30
Button Height [%]: 30
Delete Button

delete button

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

selection of the effective range: broadcast, groups or individual addresses

the button position is displayed in the preview (top left)

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

button function: short press, long press, alternating pulses and many other functions

Command X
GOTO SCENE 0
Fade time
Not used

assigned commands: e.g. light intensity (%), dimming, max, min, scene 0-15, macros, etc.

Devices can also be ordered with customer-specific settings!

DALI-2 ROT

Rotary and push button with DALI output for fast and precise control of brightness, colour, or colour temperature. All standard functions such as dimming, switching, scene recall, etc. are supported.

The DALI Cockpit PC Software can be used to set the operating mode, effective range and individual DALI commands for the push button and rotary knob.

The standard device has an application controller but can be set to instance mode as well. The module "-D2" only supports the instance mode (sending event messages instead of direct control commands) for integration in higher-level building management systems with DALI connection, such as those from WAGO or Beckhoff.
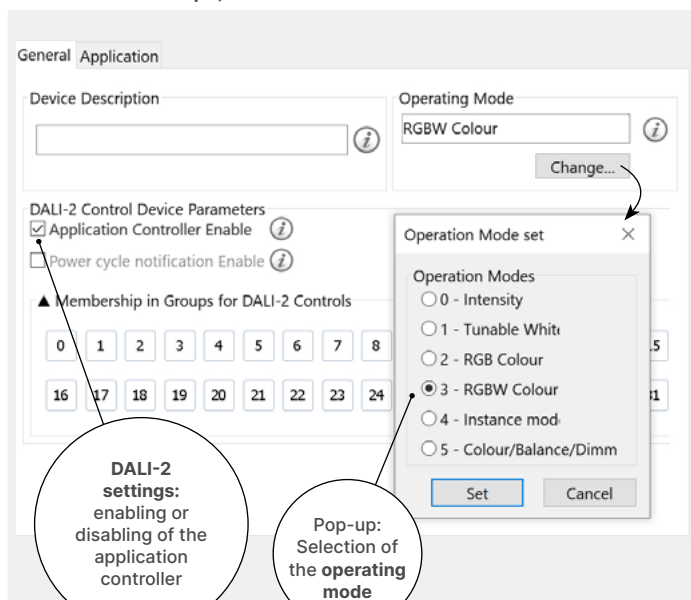
The device can be mounted on commercially available flush-type installation boxes and is supplied by the DALI line. Rotary knob and covers are available in white and black. Furthermore, the module can be combined with covers from third-party suppliers (shaft= Ø4 mm, adapter for Ø6mm is included in the scope of delivery).
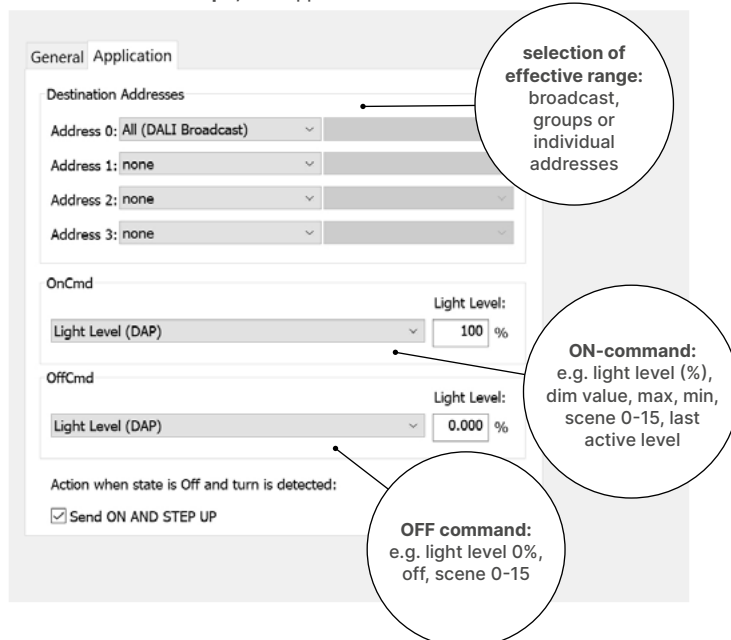
Customer-specific designs can be implemented upon request. The module "-NFC" supports, in addition to the configuration via the DALI Cockpit PC Software, the adjustment of selected settings via smartphone (NFC capable) and the Lunatone NFC app.

NAME	ARTICLE NUMBER	SUPPLY	CURRENT CONSUMPTION DALI	OPERATING TEMP. (TA)	INSTALLATION	DIMENSIONS (MM)
DALI-2 ROT	Art.Nr.:86459822-__	via DALI line	typ. 1.6mA	-20°C ... 75°C	on flush-type installation boxes	70 × 70 × 45

Overview DALI Cockpit, tab "General":

DALI-2 settings: enabling or disabling of the application controller

Pop-up: Selection of the **operating mode**

Overview DALI Cockpit, tab "Application":

selection of effective range: broadcast, groups or individual addresses

ON-command: e.g. light level (%), dim value, max, min, scene 0-15, last active level

OFF command: e.g. light level 0%, off, scene 0-15

Installation example:

DALI PS

DALI ROT in Betriebsart 2: "TW" – Intensity & Tunable White

DC Power Supply

24-48V DC

DALI CW-WW DT8 LED Dimmer

luminaire

Tip: Configuration also via NFC app! page 11

Part numbering system:

ARTICLE BASIS	DALI-2 FUNCTION, OPERATING MODE	INSTALLATION TYPE	DALI POWER SUPPLY
86459822	–	–	–

NFC = DALI-2 application controller, operating mode changeable (1-6)

D2 = only DALI-2 instance mode, fixed operating mode D2I: Instance mode

= for European installation box

CH = for Swiss installation box

= without

PS = 70mA DALI bus power supply

Supported operating modes:

NFC operating mode 1 - factory setting:
"I" – Intensity: Switch / Dim

ON/OFF   DIM

press: ON / OFF
rotate: dimming

NFC operating mode 2:
"TW" – Intensity & Tunable White

ON/change mode   OFF   mode 1 DIM   mode 2 CW-WW

short press: ON / change mode, long press OFF
mode 1 rotate: dimming, mode 2 rotate: colour temp.

NFC operating mode 3:
"RGB" – Intensity & RGB

ON/change mode   OFF   mode 1 DIM   mode 2 RGB

short press: ON / change mode, long press OFF
mode 1 rotate: dimming, mode 2 rotate: colour

NFC operating mode 4:
"RGBW" – Intensity & RGBW

ON/change mode   OFF   mode 1 DIM   mode 2 RGB   mode 3 White

short press: ON / change mode, long press OFF
mode 1 rotate: dimming, mode 2 rotate: colour, mode 3
rotate: white channel

NFC D2 operating mode 5:
"D2I" - DALI-2 Instance mode

instance type 0   instance type 1

press: instance 0, push button
rotate: instance 1, generic, event messages for:
"start rotate clockwise", "start rotate counterclockwise",
"stop rotate"

NFC operating mode 6:
"BD/CD" - Balance&Dim/Colour&Dim

ON/change mode   OFF   mode 1 DIM   mode 2 TW / RGB

short press: ON / change mode, long press OFF
mode 1 rotate: dimming, mode 2 rotate: colour/colour
temperature

Installation type:

for European installation box
standard version

70 mm
60 mm

CH for Swiss installation box
Art.Nr. 86459822-__-CH-__

44 mm
44 mm
52 mm

Power supply:

PS DALI Supply 70mA
Art.Nr. 86459822-__-PS-__

With the output current of up to 70mA a small DALI installation can be supplied. The device is attached to the back of the DALI-2 ROT device. Up to 3 DALI-2 ROTs with power supply can be used in one DALI line; the polarity of the DALI connections must be considered.

Accessories:

84 mm
37 mm   18 mm

Z01 ○
Jung Series A alpine white
cover and rotary knob
Art.Nr. 86459822-Z01

Z02 ●
Jung Series A black
cover and rotary knob
Art.Nr. 86459822-Z02

6 mm
6 mm

Z03
Adapter Ø6mm
Art.Nr. 86459822-Z03

82 mm
42 mm   17 mm

Z04 ○
Lunatone white RAL9016
cover and rotary knob
Art.Nr. 86459822-Z04

Z05 ●
Lunatone black
cover and rotary knob
Art.Nr. 86459822-Z05

DALI-2 ROT Touch

Rotary and push button with capacitive sensor buttons for quick and precise control of brightness, colour, or colour temperature. Functionality and effective range for the rotary pushbutton can be set with the 3 or 5 capacitive buttons. The capacitive button will light up after being pressed to indicate the selected mode, the rotary knob will then control for example colour or brightness. Furthermore, it is possible to send individual DALI commands via the capacitive buttons to e.g., recall a scene. Several standard user interfaces are available and customer-specific designs can be implemented upon request.

The DALI-2 ROT Touch supports, in addition to the configuration via the DALI Cockpit PC Software, the adjustment of selected settings via smartphone (NFC capable) and the Lunatone NFC app.
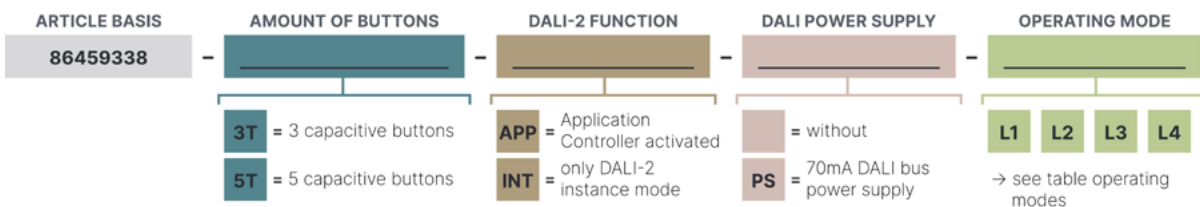
The device can be mounted on commercially available flush-type installation boxes. It is directly supplied by the DALI line. A version with DALI bus power supply (-PS) is also available.

The -INT module only supports the instance mode (sending event messages instead of direct control commands) for integration in higher-level building management systems with DALI connection, such as those from WAGO or Beckhoff.

NFC · DALI-2
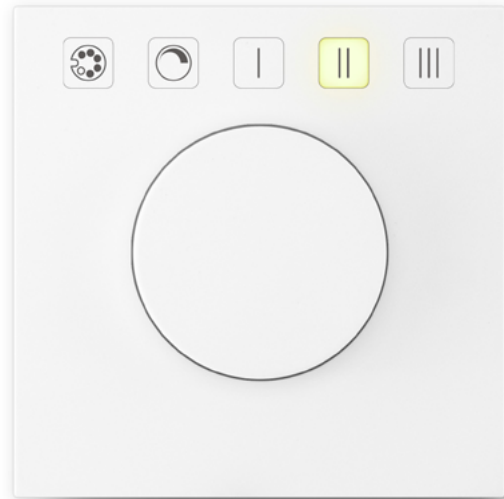
NAME	ARTICLE NUMBER	SUPPLY	CURRENT CONSUMPTION DALI	OPERATING TEMP. (TA)	INSTALLATION	DIMENSIONS (MM)
DALI-2 ROT Touch	86459338-__	via DALI line	typ. 1.6mA	-20°C ... 75°C	on flush-type installation boxes	70 × 70 × 45

Part numbering system:

ARTICLE BASIS	AMOUNT OF BUTTONS	DALI-2 FUNCTION	DALI POWER SUPPLY	OPERATING MODE
86459338				

- **3T** = 3 capacitive buttons
- **5T** = 5 capacitive buttons
- **APP** = Application Controller activated
- **INT** = only DALI-2 instance mode
- = without
- **PS** = 70mA DALI bus power supply
- **L1 L2 L3 L4** → see table operating modes

Customer-specific designs can be implemented upon request! customlayout@lunatone.com

Operating modes:

	Layout with 3 buttons -3T			Layout with 5 buttons -5T				
L1 Scenes & groups Art.Nr.: 86459338-__-L1	scene 1	scene 2	group 0	scene 1	scene 2	scene 3	group 0	group 1
L2 Scenes, groups & blinds Art.Nr.: 86459338-__-L2	scene 1	group 0	blinds	scene 1	scene 2	group 0	group 1	blinds
L3 Tunable white & scenes Art.Nr.: 86459338-__-L3	CW-WW	brightness	scene 1	CW-WW	brightness	scene 1	scene 2	scene 3
L4 Colour & scenes Art.Nr.: 86459338-__-L4	RGB	brightness	scene 1	RGB	brightness	scene 1	scene 2	scene 3

DALI-2 Switch Cross NFC

Pushbutton module with four programmable buttons. With the DALI Cockpit Software, or via smartphone (NFC capable) and the Lunatone NFC app, each button can be individually configured with target address, button behaviour and DALI commands. In addition to the standard functions of dimming, switching, scene recall, etc., predefined macros such as setting the colour temperature, dynamic scenes and sequences, as well as user defined command lists are supported. Several flexible standard user interfaces are available and customer-specific designs can be implemented upon request. The device can be ordered with factory setting "application controller" or "instance mode". The factory setting can be changed with the DALI Cockpit Software or Lunatone NFC App (module "-NFC"). When used as "application controller" the device sends direct control commands. In the "Instance" mode only event messages are sent for integration in higher-level building management systems with DALI connection, such as those from WAGO or Beckhoff. The DALI-2 Switch Cross "-NFC" supports, in addition to the configuration via
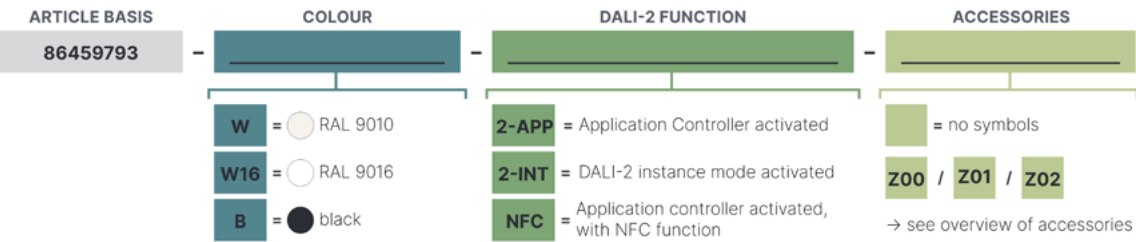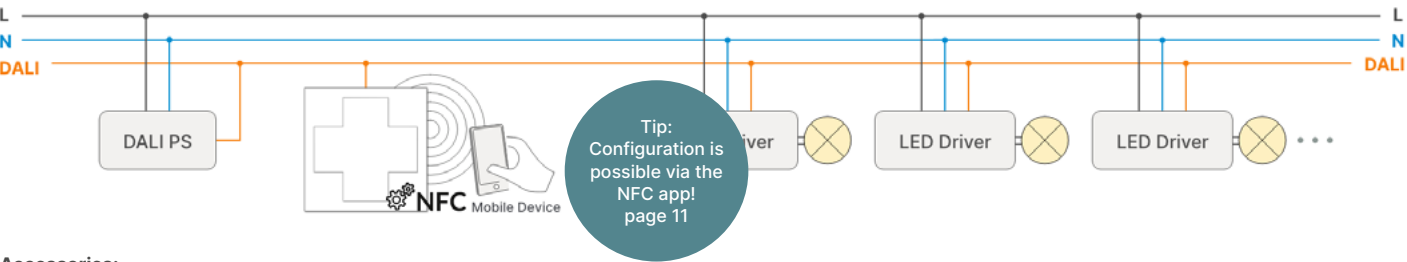
image (from left to right): RAL9010; RAL9016; black

the DALI Cockpit PC Software, the adjustment of selected settings via smartphone (NFC capable) and the Lunatone NFC app.

NAME	ARTICLE NUMBER	SUPPLY	CURRENT CONSUMPTION DALI	OPERATING TEMP. (TA)	INSTALLATION	DIMENSIONS (MM)
DALI-2 Switch Cross	86459793-___	via DALI line	typ. 1.7mA	-20°C ... 75°C	on flush-type installation boxes	8,5 × 82 × 82

Part numbering system:

ARTICLE BASIS	COLOUR	DALI-2 FUNCTION	ACCESSORIES
86459793	____	____	____

COLOUR
- **W** = ⬤ RAL 9010
- **W16** = ⬤ RAL 9016
- **B** = ⬤ black

DALI-2 FUNCTION
- **2-APP** = Application Controller activated
- **2-INT** = DALI-2 instance mode activated
- **NFC** = Application controller activated, with NFC function

ACCESSORIES
- ____ = no symbols
- **Z00** / **Z01** / **Z02**
- → see overview of accessories

Installation example Art.Nr.: 86459793-___-NFC

| DALI PS | | river | LED Driver | LED Driver |

NFC Mobile Device

Tip: Configuration is possible via the NFC app! page 11

Accessories:

Z00

Individual design? Use our online configurator or send an inquiry to: customlayout@lunatone.com

Cross plate with customer-specific symbols
Art.Nr. 86459793-__-Z00

Z01

Cross plate with symbols for dimming
Art.Nr. 86459793-__-Z01

Z02

Cross plate with symbols for dimming and blind control
Art.Nr. 86459793-__-Z02

84 mm

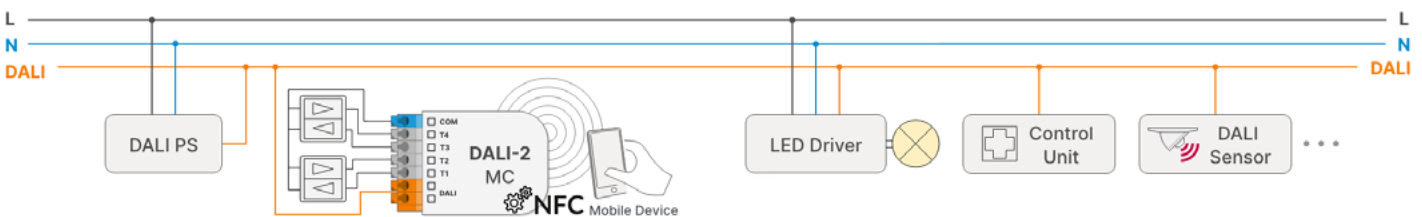37 mm

DALI-2 MC Pushbutton Coupler

Pushbutton coupler with 4 inputs to connect standard potential free switches or pushbuttons. Each input can be individually configured with target address, button behaviour and DALI commands. In addition to the standard functions of dimming, switching, scene recall, etc., predefined macros such as setting the colour temperature, dynamic scenes, and sequences, as well as user defined command lists are supported. The device can be ordered with factory setting "application controller" or "instance mode". The factory setting can be changed with the DALI Cockpit Software or Lunatone NFC App (module "-NFC"). When used as "application controller" the device sends direct control commands. In the "Instance" mode only event messages are sent for integration in higher-level building management systems with DALI connection, such as those from WAGO or Beckhoff. The device is designed to fit behind a switch in a flush-type installation box. The DALI-2 MC
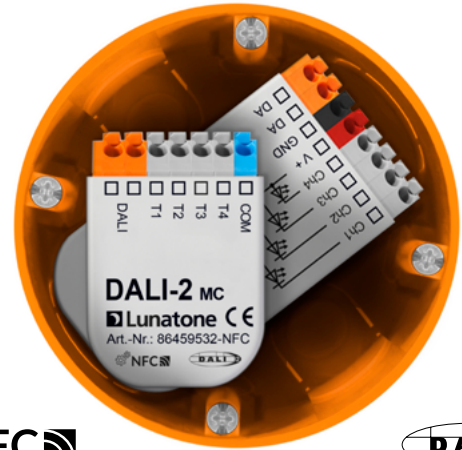
NFC supports, in addition to the configuration via the DALI Cockpit PC Software, the adjustment of selected settings via smartphone (NFC capable) and the Lunatone NFC app.

NAME	ARTICLE NUMBER	FACTORY SETTING	NFC	SUPPLY	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI-2 MC	86459532-2-app	application controller activated	no	via DALI line	-20°C ... +75°C	40 × 28 × 15
DALI-2 MC	86459532-2-int	instance mode activated	no	via DALI line	-20°C ... +75°C	40 × 28 × 15
DALI-2 MC NFC	86459532-NFC	application controller activated, Android app DALI NFC for configuration	yes	via DALI line	-20°C ... +75°C	40 × 28 × 15

Installation example Art. Nr.: 86459532-NFC

DALI-2 MC4L Pushbutton Coupler

DALI module with 4, from the DALI bus galvanically isolated, inputs for mains voltage. Each input can be individually configured with target address, button behaviour and DALI commands. In addition to the standard functions of dimming, switching, scene recall, etc., predefined macros such as setting the colour temperature, dynamic scenes, and sequences, as well as user defined command lists are supported.

The device can be ordered with factory setting "application controller" or "instance mode". The factory setting can be changed with the DALI Cockpit Software or Lunatone NFC App (module "-NFC").

NAME	ARTICLE NUMBER	FACTORY SETTING	NFC	SUPPLY	DALI CURRENT CONSUMPTION	INPUT	DIMENSIONS (MM)
DALI-2 MC4L	86458507-4L-2-app	application controller activated	no	via DALI line	typ. 1,7mA	4 × 230V	59 × 33 × 15
DALI-2 MC4L	86458507-4L-2-int	instance mode activated	no	via DALI line	typ. 1,7mA	4 × 230V	59 × 33 × 15
DALI-2 MC4L	86458507-4L-NFC	application controller activated, Android app DALI NFC for configuration	yes	via DALI line	typ. 1,7mA	4 × 230V	59 × 33 × 15
DALI-2 MC4L DIN Rail	86458507-4L-HS-2-app	application controller activated	no	via DALI line	typ. 1,7mA	4 × 230V	98 × 17,5 × 57
DALI-2 MC4L DIN Rail	86458507-4L-HS-2-int	instance mode activated	no	via DALI line	typ. 1,7mA	4 × 230V	98 × 17,5 × 57

DALI NFC App

The DALI NFC App provides an easy and straightforward way to set up and configure DALI devices with a smartphone using Near Field Communication (NFC). It enables reading of device information and configuration of basic settings, including effective range (broadcast, groups or individual addresses). An important advantage of NFC is that devices can be configured before installation, in an unpowered state.

DALI Daylight Bluetooth Interface

DALI Daylight Interface incl. App for iOS and Android allows basic adjustment for the following devices:

• DALI CDC: changing circadian curve settings (start, peak, end)
• DALI RTC: definition of 2 switching intervals per weekday
• DALI CS: setting light level and hold time
• DALI LS: switching between manual and constant light control, specifying the reference light level

DALI Daylight
Here you can download the app for your smartphone!

NAME	ARTICLE NUMBER	SUPPLY	CURRENT CONSUMPTION DALI	DIMENSIONS (MM)
DALI Daylight Bluetooth Interface	89453863	via DALI line	typ. 4mA	59 × 33 × 15

DALI-2 CS

Compact sensor module with motion detection (PIR) and light intensity measurement for DALI and DALI-2 systems. The module can either be used to directly control the DALI system (application controller) or simply to gather measurements for a building management system (instance mode).

The DALI-2 CS can be configured with the DALI Cockpit Software to send various DALI commands upon motion detection (on/off, max, min, scene, ...) to either the entire DALI system, groups, or individual addresses.

The module contains a light sensor and can automatically adjust room lighting (constant light control). 4 operating modes are supported: presence triggered constant light control; presence triggered lighting; constant light control; light control via threshold switches.

In addition, alternative behaviour and parameters can be set, for example to change between different destination addresses or light values.

Multiple sensors within one group will synchronise automatically. The device is powered directly by the DALI bus. The measured values can be read out via the DALI line.

DALI-2 CS is available in three different housings: for direct mounting on cavity walls or installation boxes (standard), for suspended ceilings (with spring), or for surface mounting (with backbox). Available housing colours are pure white RAL 9010, traffic white RAL 9016 (-W16) or black (-B).

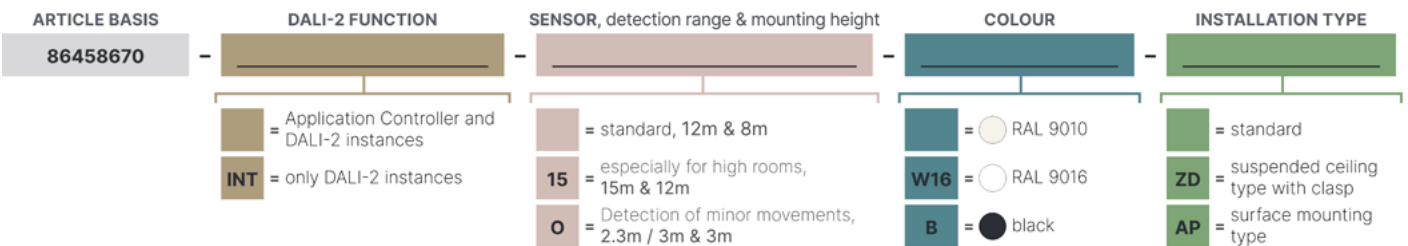Factory setting: motion detection and 10min hold time before the off command.

THP version with additional temperature, humidity, air pressure & air quality sensor!

DALI-2 CS THP: Version with integrated sensors for temperature, humidity, air pressure and optional air quality (Version -AQ).
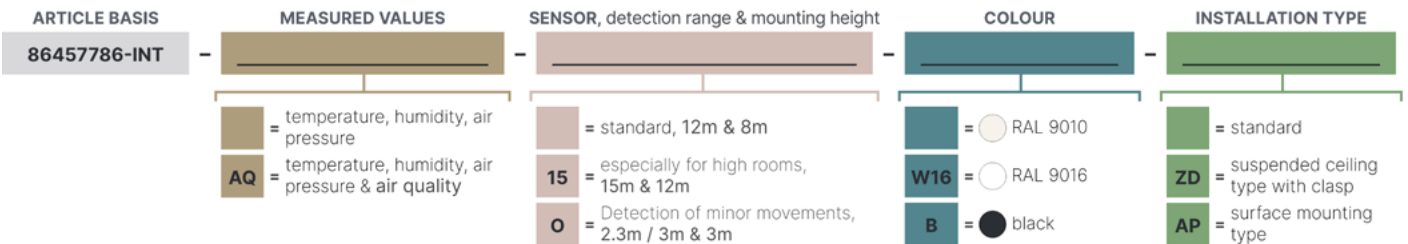
A version with mains connection and integrated bus supply (20mA) is also available upon request (housing with strain relief and sensor unit).

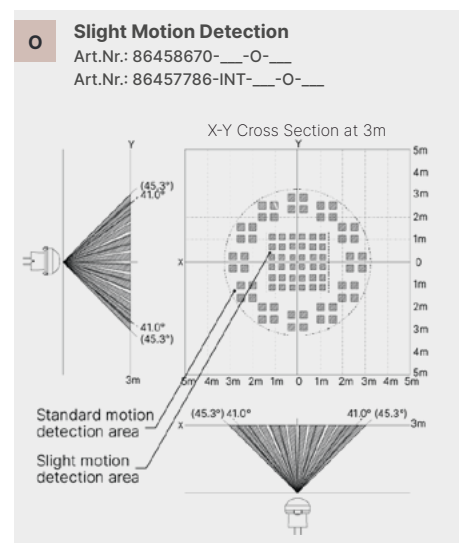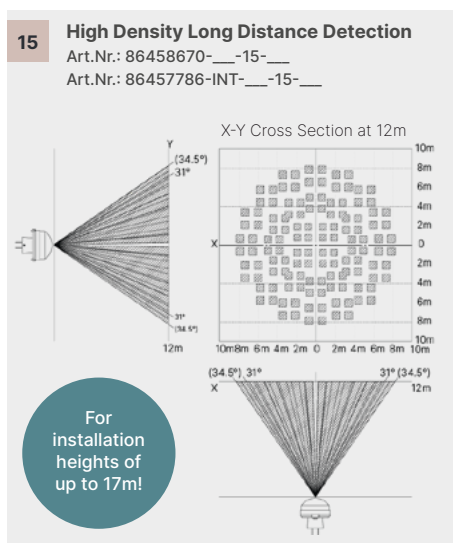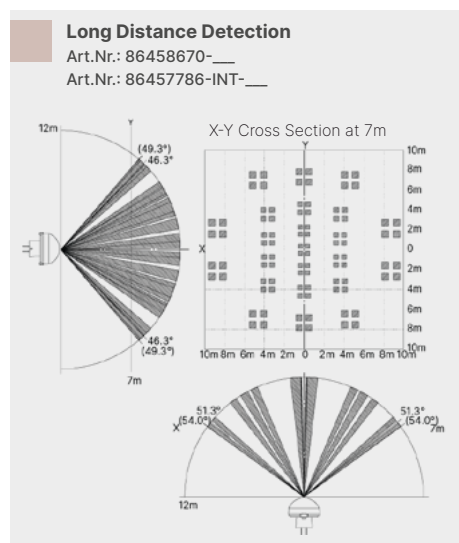| NAME	ARTICLE NUMBER	BRIEF DESCRIPTION	INTERFACE	SUPPLY	DALI CURRENT CONSUMPTION	OPERATING TEMP. (TA)
DALI-2 CS	86458670-__	Sensor for: light and motion (PIR)	DALI	via DALI line	typ. 3.5mA	-20°C ... +70°C
DALI-2 CS THP	86457786-INT-__	Sensor for light, motion (PIR), **temperature, humidity, air pressure and air quality (-AQ)**	DALI	via DALI line	typ. 3.5mA	-20°C ... +70°C

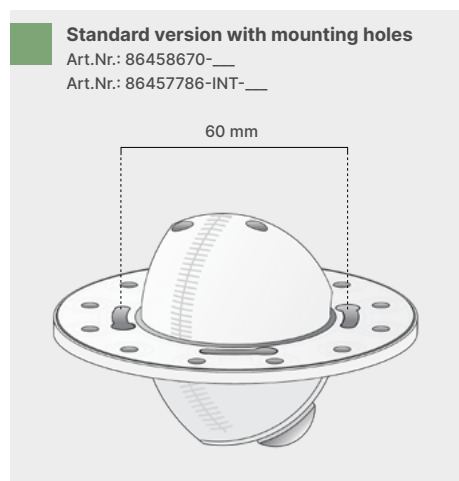**Part numbering system DALI-2 CS: LIGHT AND MOTION SENSOR (PIR)**

ARTICLE BASIS	DALI-2 FUNCTION	SENSOR, detection range & mounting height	COLOUR	INSTALLATION TYPE
86458670	___ = Application Controller and DALI-2 instances INT = only DALI-2 instances	___ = standard, 12m & 8m 15 = especially for high rooms, 15m & 12m O = Detection of minor movements, 2.3m / 3m & 3m	___ = RAL 9010 W16 = RAL 9016 B = black	___ = standard ZD = suspended ceiling type with clasp AP = surface mounting type

Part numbering system DALI-2 CS THP: LIGHT AND MOTION SENSOR (PIR) + TEMPERATURE, HUMIDITY, AIR PRESSURE, (AIR QUALITY WITH -AQ)

ARTICLE BASIS	MEASURED VALUES	SENSOR, detection range & mounting height	COLOUR	INSTALLATION TYPE
86457786-INT	___ = temperature, humidity, air pressure AQ = temperature, humidity, air pressure & air quality	___ = standard, 12m & 8m 15 = especially for high rooms, 15m & 12m O = Detection of minor movements, 2.3m / 3m & 3m	___ = RAL 9010 W16 = RAL 9016 B = black	___ = standard ZD = suspended ceiling type with clasp AP = surface mounting type

Lens types:

	Long Distance Detection Art.Nr.: 86458670-___ Art.Nr.: 86457786-INT-___

X-Y Cross Section at 7m

15	**High Density Long Distance Detection** Art.Nr.: 86458670-___-15-___ Art.Nr.: 86457786-INT-___-15-___

X-Y Cross Section at 12m

For installation heights of up to 17m!

O	**Slight Motion Detection** Art.Nr.: 86458670-___-O-___ Art.Nr.: 86457786-INT-___-O-___

X-Y Cross Section at 3m

Standard motion detection area
Slight motion detection area

Installation type:

	Standard version with mounting holes Art.Nr.: 86458670-___ Art.Nr.: 86457786-INT-___

60 mm

ZD	**Version for suspended ceilings (with spring)** Art.Nr.: 86458670-__-ZD-__ Art.Nr.: 86457786-INT-__-ZD-__

72 mm

AP	**Version for surface mounting (with backbox)** Art.Nr.: 86458670-__-AP-__ Art.Nr.: 86457786-INT-__-AP-__

78 mm

Further sensor modules:

NAME	ARTICLE NUMBER	BRIEF DESCRIPTION	DIMENSIONS (MM)
DALI-2 CS THP LE	86457786-INT-LE	Sensor for: light, motion (PIR), temperature, humidity, and air pressure	Luminaire built-in 44×16×21,5
DALI-2 CS THP AQ LE	86457786-INT-AQ-LE	Sensor for: light, motion (PIR), temperature, humidity, air pressure **& air quality**	Luminaire built-in 44×16×21,5

NAME	ARTICLE NUMBER	BRIEF DESCRIPTION
DALI CS Corridor	86459432	lens with horizontal detection angle for movement and light; constant light control
DALI CS Corridor IP65	86459432-IP65	lens with horizontal detection angle for movement and light; constant light control; **outdoor use IP65**
DALI-2 CS Mini	86457244	lens type "O": Slight Motion Detection 2.5m for movement and light; constant light control
DALI-2 CS Mini IP65	86457244-IP65	lens type "O": Slight Motion Detection 2.5m for movement and light; constant light control; **outdoor use IP65**

top: 86457786-INT-LE (-AQ)
bottom: left: 86457244 (-IP65); right: 86459432 (-IP65)

Device Info

Name	DALI-2 CS	Article Number	N/A
Manufacturer	Lunatone	Serial Number	1
Device Type	-	Type	Control Device
DALI Ver	unknown	Short Address	(A0²) DALI-2 CS

GTIN

Get

General | Instances | Wirkbereich | **Motion Control**

Behavior on movement

☐ Current Light Level ____ Lux

shows currently measured light value as a reference

Sequence

Movement State — Transition State — Vacant State

command that is executed when motion is detected → section 1 in the graph

The following commands can be selected as ON-commands: light intensity (%), max, min, scene 0-15, last active light level

Settings for the motion detection sequence → with or without constant light control, depending on the operating mode

☑ with retriggering

Movement state

1. On Command	Light Level (DAP)	Light Level:	100 %
	Fade time ☑ [7] 5.6 sec		

Hold Time: How long should the 1st light level be active for? → section 2 in the graph

2. Hold Time	30 min	0 sec

Transition state

command executed after the 1st Hold Time: → section 3 in the graph

the following commands can be selected for the Mid Level Command: no action, light intensity (%), max, min, scene 0-15, last active light level

3. Mid Level Command	RECALL MIN LEVEL

4. Second Level Hold Time	10 min	0 sec

2nd level Hold Time: How long should the second light level be active for → section 4 in the graph

Vacant State

command executed after the 2nd Hold Time: → section 5 in the graph

the following commands can be used as OFF-commands: light intensity 0%, off, scene 0-15

5. Off Command	OFF

switch-on and switch-off threshold: it can be defined above or below which threshold value the motion and light control is active

Switch-on threshold

○ Cmd X only sent if light value > threshold value (i.e. day)

Threshold: 600 Lux

○ Cmd X only sent if light value < threshold value (i.e. night)

Hysteresys: 50 Lux

☐ Bright Out: Retrigger by motion only if Light Level < Bright-Out-Threshold

Bright-Out-Threshold 500 Lux

● Cmd X is independent of the light sensor

Behavior at external commands on the sensor destinations

the device reaction, when overhearing an external on, off or dimming command to its effective range can be defined, depending on the operating mode

ⓘ	ON	Movement simulation
	OFF	End of sequence
	Dimming	no influence

Variable Operating Behavior

Activation

☐ Scene Command On Destination Address
☑ Scene Command On own DALI Address

the behaviour of the sensor can be changed by recalling a scene

| Scene 0	3 - Alternative Destinations	G5	☰
Scene 1	4 - Alternative On Command(1) Light Level DAP	80 %	
Scene 0	1 - no action		
Scene 0	1 - no action		

DALI-2 Room Controller

The DALI-2 Room Controller serves as an interface between Bluetooth 5.0 and DALI. The device is especially suited for room solutions. The controller provides both the bus power supply and the software interface for addressing, commissioning and control. The devices have an integrated DALI bus power supply (200mA) for a DALI system with up to 64 DALI devices. A connection with the Lunatone smartphone application DALI-Cockpit Mobile can be established via the Bluetooth interface. The app offers a clear and simple interface with an installation assistant, various configuration options and an individually configurable user interface to control connected devices.

NAME	ARTICLE NUMBER	INTERFACE	SUPPLY	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI-2 BT5 Room Controller	87454427	DALI, Bluetooth	mains voltage 40mA (@ 120Vac), 20mA (@ 240Vac)	-20°C ... +75°C	120 × 41 × 22

Installation example:
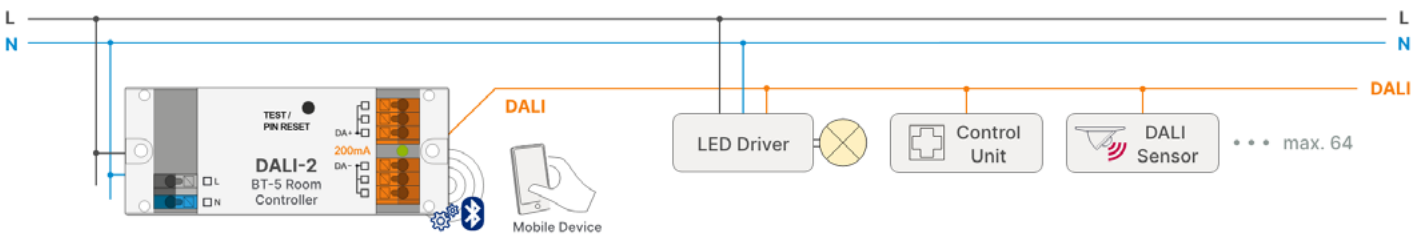
DALI Cockpit Mobile

Smartphone application for set-up and configuration of DALI systems in connection with the DALI-2 BT5 Room Controller. The DALI system can be addressed via the app,

configured and controlled.
In addition, an individual user interface can be created for operating the lights via mobile phone.
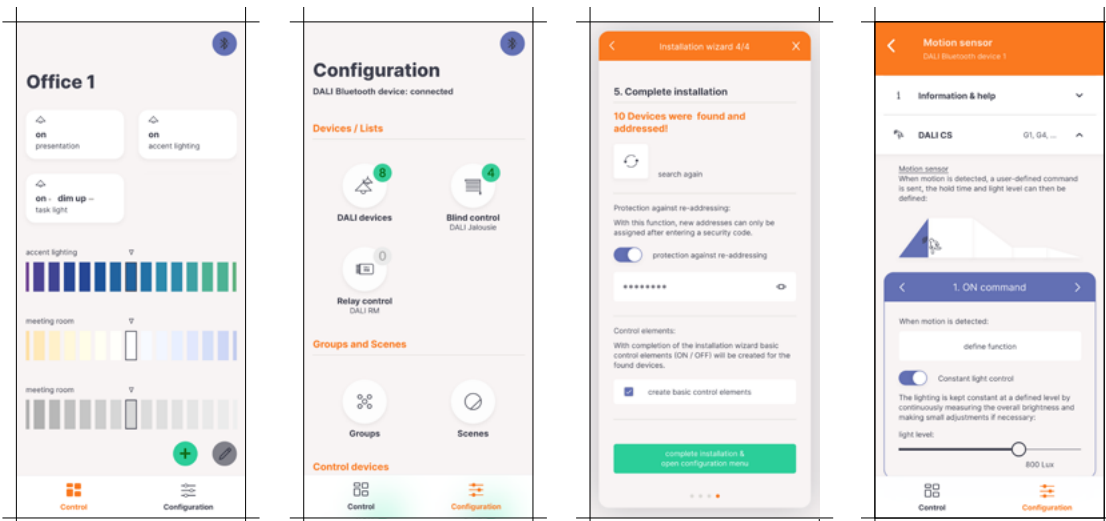
Customizable Interface for light control

Menu with various sub-items for device configuration

Installation assistant for device addressing

Configuration pages for Lunatone products

DALI Cockpit mobile

Here you can download the app for your smartphone:

wDALI-2 BT5 Long Range Transmitter – Receiver

Module for the wireless connection of spatially separated DALI loads to a DALI system with Bluetooth 5 Long Range. The transmitter sends DALI commands from the DALI system to one or more receivers via radio signal. The devices in the sub-circuit can be controlled via broadcast or an assigned group. The modules support DALI-2 control commands. Easy configuration with the DALI Cockpit Software. The receiver is available with or without an integrated DALI bus power supply.

NAME	ARTICLE NUMBER	BRIEF DESCRIPTION	SUPPLY	DIMENSIONS (MM)
wDALI-2 BT5 Long Range Transmitter	89453321-GRTM	• transmission of DALI commands via radio signal	via DALI line (3.8mA)	59 × 33 × 15
wDALI-2 BT5 Long Range Receiver	89453321-GRR	• reception of DALI commands via radio signal • all commands sent to the group assigned to the receiver are broadcasted to the sub-circuit	via DALI line (3.8mA)	59 × 33 × 15
wDALI-2 BT5 Long Range Receiver PS20	89453321-GRRPS	• reception of DALI commands via radio signal • all commands sent to the group assigned to the receiver are broadcasted to the sub-circuit • integrated DALI bus power supply (20mA)	mains voltage 210-250VAC / 50-60Hz	59 × 33 × 15
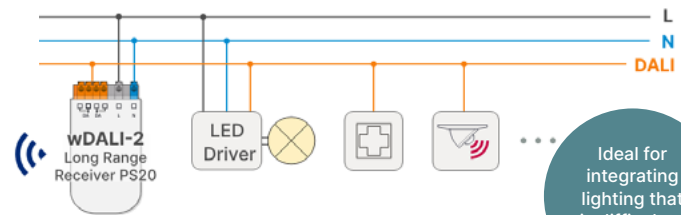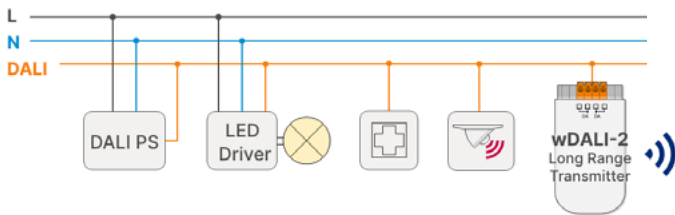
Ideal for integrating lighting that is difficult to access!

DALI-SubNet → The devices in the sub-circuit can be controlled via broadcast or an assigned group. The group can be defined with the DALI Cockpit Software.

DALI Dim2warm

The Dim2Warm module allows the simultaneous control of brightness and colour temperature, with only one DT6 DALI address. The lower the dimming value, the warmer the light.
The output curves of the two channels can be adjusted individually via the DALI Cockpit Software. Therefore, this device can also be used for direct and indirect lighting with only one DALI address.

NAME	AARTICLE NUMBER	CURRENT CONSUMPTION DALI	OUTPUT	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI Dim2warm	89453864	typ. 2mA + power requirement sub-circuit	2xDALI	-20°C ... +60°C	40 × 28 × 15
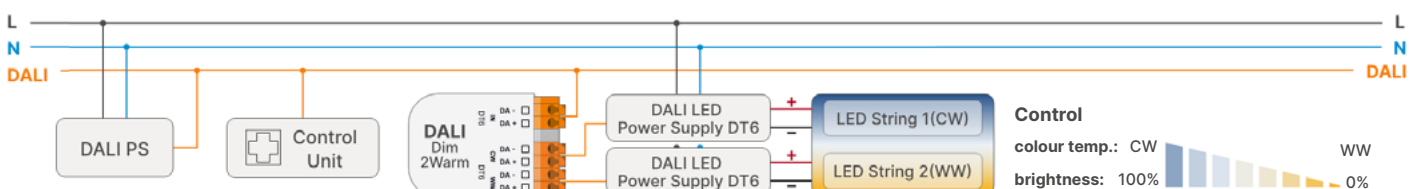
Control
colour temp.: CW   WW
brightness: 100%   0%

DALI LR PS 20mA

Compact control module for automatic night-time power reduction / brightness reduction. 2 operating modes are supported: Operating mode B1 for power reduction through mains phase or control phase, operating mode B2 for power reduction using virtual midnight calculation. All necessary settings can be made using rotary and switches. The device has an integrated bus power supply (20mA) for up to 7 standard DALI loads, an extension to max. 64 loads is possible with a DALI Expander. The DALI LR PS20 is suitable for installation in flush-type installation boxes or integration in protection class II devices.

NAME	ARTICLE NUMBER	SUPPLY INPUT	INTEGRATED DALI POWER SUPPLY	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI LR PS20	89453880	mains voltage 220-240VAC / 50-60Hz	20mA	-20°C ... +55°C	59 × 33 × 15

Operating mode B1:
Power reduction through the mains control phase, the DALI LR is supplied via a separately switched phase.
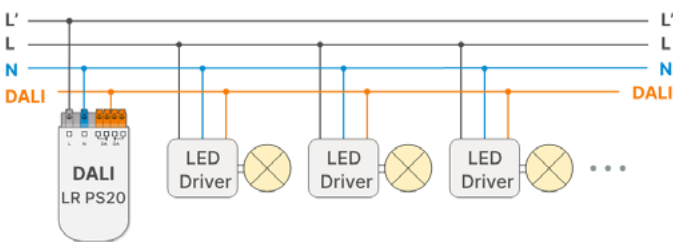
Operating mode B2:
The DALI LR reduces the power during the operating time. The time span can be adjusted, it is always symmetrical to the user-defined virtual midnight.
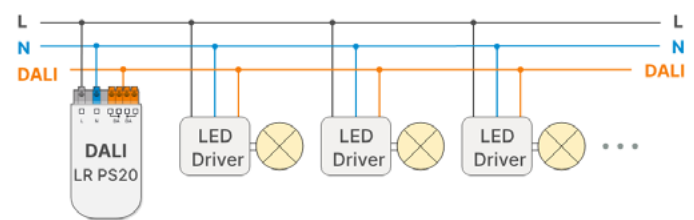

DALI-2 RS232 PS

Module with serial interface for communication with the DALI bus via RS232. Enables, for example, the connection of a PLC to a DALI system via RS232 for bidirectional data transmission. Suitable for addressing, configuration, status queries and monitoring. Housing variants for DIN Rail mounting or with strain relief for suspended ceilings are available. The -PS version has an integrated DALI bus power supply (240mA) for a DALI system with up to 64 DALI devices. **LUBA protocol:** Intelligent protocol for easy access to the DALI system.
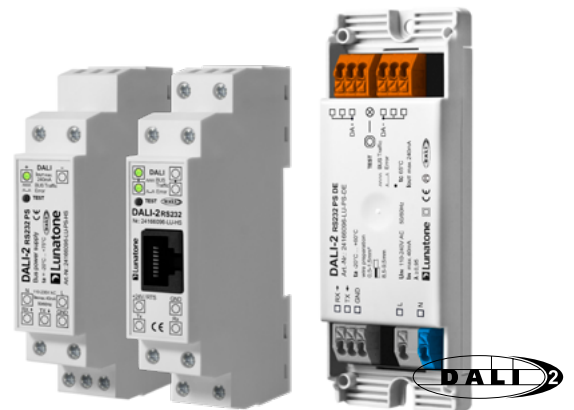
| NAME	ARTICLE NUMBER	SUPPLY	CURRENT CONSUMPTION DALI	SCI	CURRENT CONSUMPTION SCI	INTEGRATED DALI POWER SUPPLY	MODEL	DIMENSIONS (MM)
DALI-2 RS232	24166096	6-24V DC	typ. 10mA	• RS232, • 38400Baud, • 8 Datenbits, • kein Paritätsbit, • 1 Stoppbit (38400, 8, n, 1)	typ. 5mA	-	for DIN Rail	98 × 17,5 × 57
DALI-2 RS232 PS 240mA HS	24166096-PS-HS	230V AC	0mA		0mA	240mA	for DIN Rail	98 × 17,5 × 57
DALI-2 RS232 PS 240mA DE	24166096-PS-DE	230V AC	0mA		0mA	240mA	with strain relief for suspended ceilings	120 × 41 × 22
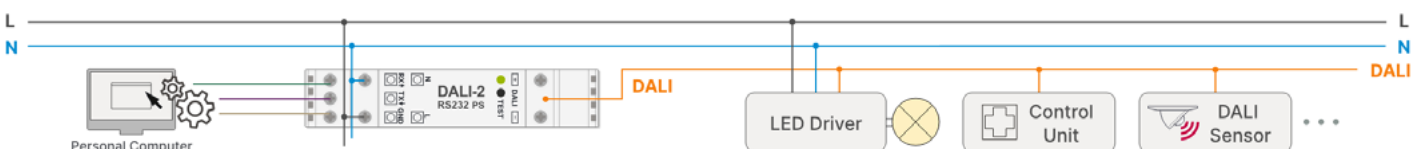
KNX DALI-2 Gateway

The KNX DALI-2 Gateway is DALI-2 and KNX certified. It is DALI multimaster capable and can transmit commands bidirectional from KNX to DALI and vice versa. The DALI system and the individual DALI devices can be configured with the DALI Cockpit PC Software and a suitable interface to the DALI bus (e.g. DALI USB). Via the gateway's product database in the KNX ETS Software the DALI devices can be matched with the respective data points and linked to the KNX components. All DALI device types (DT6, DT8-CW-WW, RGB, RGBW, RGBWAF, X-Y) are supported.

| NAME	ARTICLE NUMBER	INTERFACE	SUPPLY	OPERATING TEMP. (TA)	DIMENSIONS (MM)
KNX DALI-2 Gateway	89453899	DALI, KNX	via DALI line	-20°C - +75°C	98 × 17,5 × 57
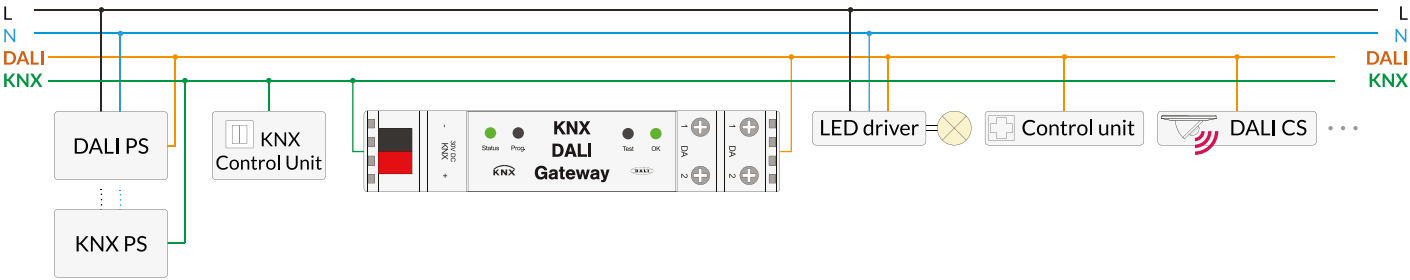
DALI Flash USB

The DALI Flash USB enables the communication between the DALI Cockpit PC Software and devices on the DALI bus. A flash memory is available to store the bus configuration and all device settings. Thus, they are permanently available, regardless of the PC used for initial configuration. The DALI Flash USB is suitable for DIN rail mounting.

| NAME	ARTICLE NUMBER	INTERFACE	TYP. CURRENT CONSUMPTION	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI USB Flash	89454248	DALI, USB	DALI: 6mA, USB: 10mA	-20°C ... +75°C	98 × 17,5 × 57
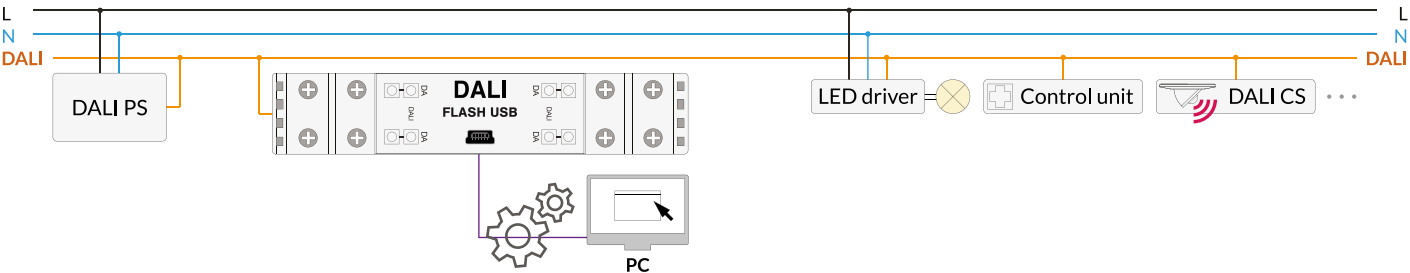
DALI-2 IOT Gateway

DALI-2 IoT Gateway is an interface to connect the DALI system with smart devices over the Internet of Things (IoT). This can be done via the local network or the Lunatone Cloud. With the DALI IoT Gateway, a simple realization of an intelligent system is possible, in which devices can be controlled and monitored with smartphones, PCs, etc. It is also possible to link several DALI lines. Basic services and an API documentation are available, to enable energy monitoring, remote support, and many other applications. The device allows integration in any IoT application using the available Software Development Kit (SDK).

| NAME	ARTICLE NUMBER	INTERFACE	SUPPLY	OPERATING TEMP. (TA)	DIMENSIONS (MM)
DALI-2 IOT Gateway	89453886	DALI, Ethernet	24V DC / 60mA	-20°C ... +60°C	98 × 17,5 × 57
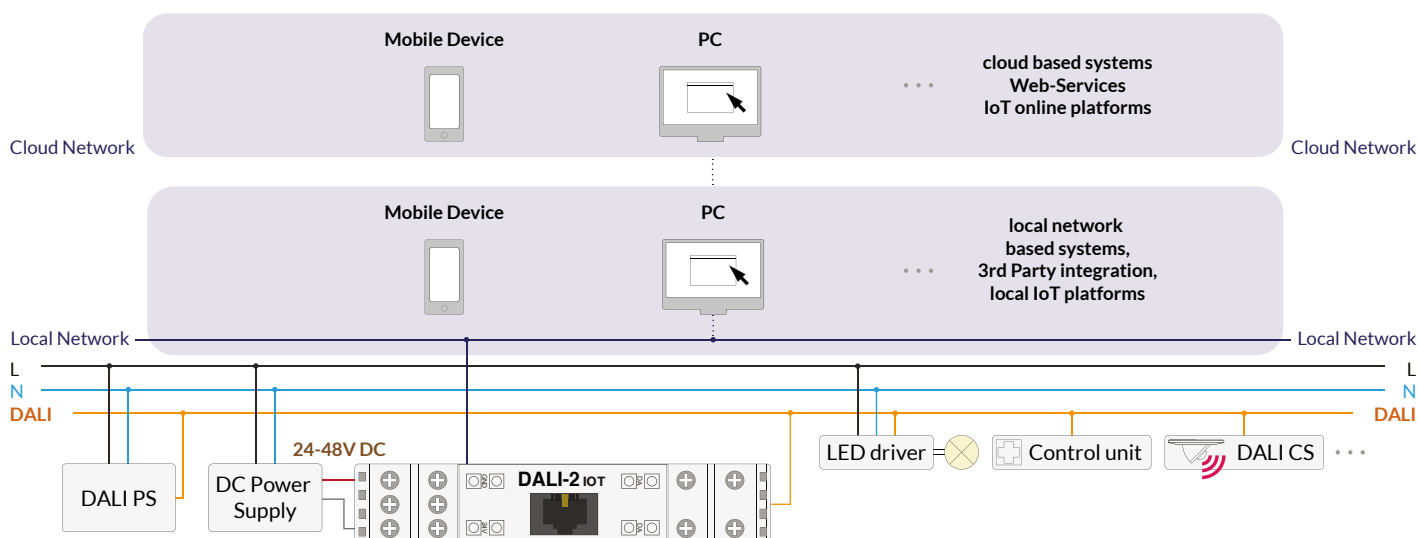
Cloud-based systems like Google Home, Apple HomeKit, Alexa, Sonos, Philips Hue, etc. are either directly supported or available through IFTTT integration.

for further Information and orders please contact:
highlights@lunatone.com
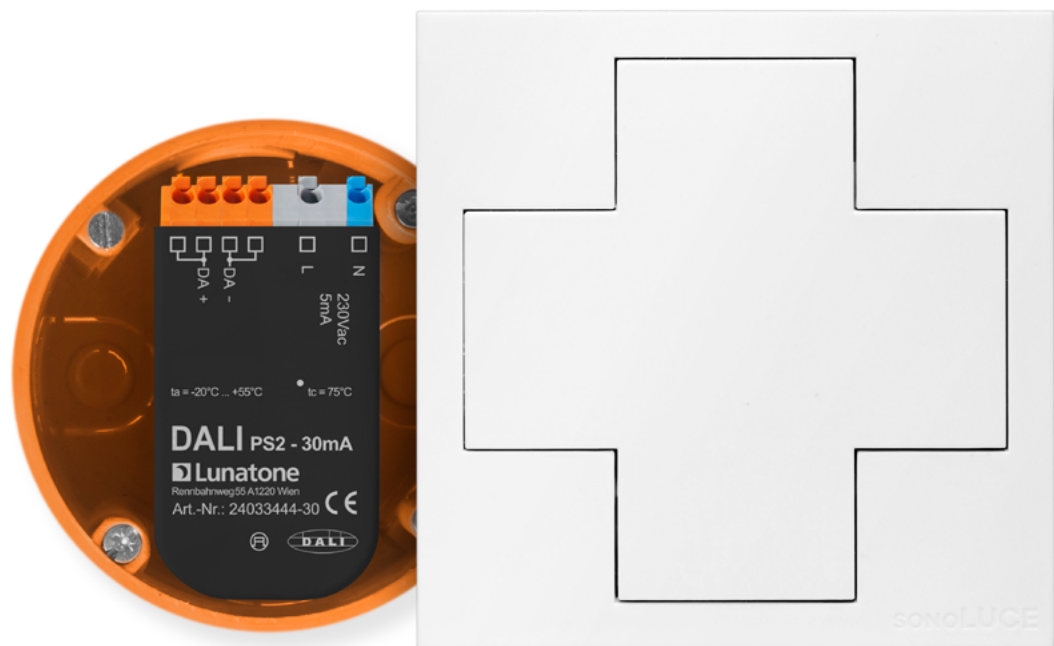
Lunatone

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