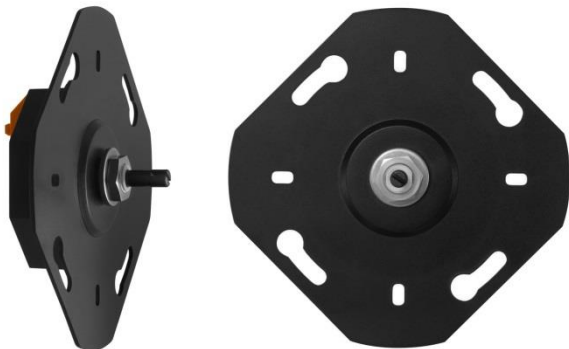# JUMiTECH

DALI ROT
rotary switch

Datasheet
Control Module

Rotary knob for controlling light level, colour and colour temperature in DALI-systems

Art. Nr. 86459822
Art. Nr. 86459822-TW
Art. Nr. 86459822-RGB
Art. Nr. 86459822-RGBW
Art. Nr. 86459822-CH
Art. Nr. 86459822-TW-CH
Art. Nr. 86459822-RGB-CH
Art. Nr. 86459822-RGBW-CH

cover and rotary knob:
Art. Nr. 86459822-Z01 (white)
Art. Nr. 86459822-Z02 (black)

DALI ROT Control Module

Overview

- DALI control module
- Type for switching and dimming
- control of light level and colour temperature of DT8 tunable white luminaires (TW version)
- control of light level and colour of DT8 RGB-luminaires (RGB and RGBW version)
- multimaster capable, multiple modules can be installed on one DALI-line and/or DALI group
- factory settings allow easy to use application
- configurable destination address (Broadcast, DALI group, DALI address)

- easy configuration via DALI USB interferace and DALI-Cockpit software tool
- no additional supply required, the module is supplied directly by the DALI-line
- double DALI terminals for easy looping of the bus connection
- simple installation, even with power supply, in a standard back box
- suitable to be used with cover and knob of most common manufacturers, but also available as accessory
- DALI-2 certificated version available: check dataheet of DALI ROT NFC

Specification, Characteristics

type	DALI ROT	DALI ROT TW	DALI ROT RGB	DALI ROT RGB
article number	86459822 86459822-CH	86459822-TW 86459822-TW-CH	86459822-RGB 86459822-RGB-CH	86459822-RGBW 86459822-RGBW-CH

electrical data:
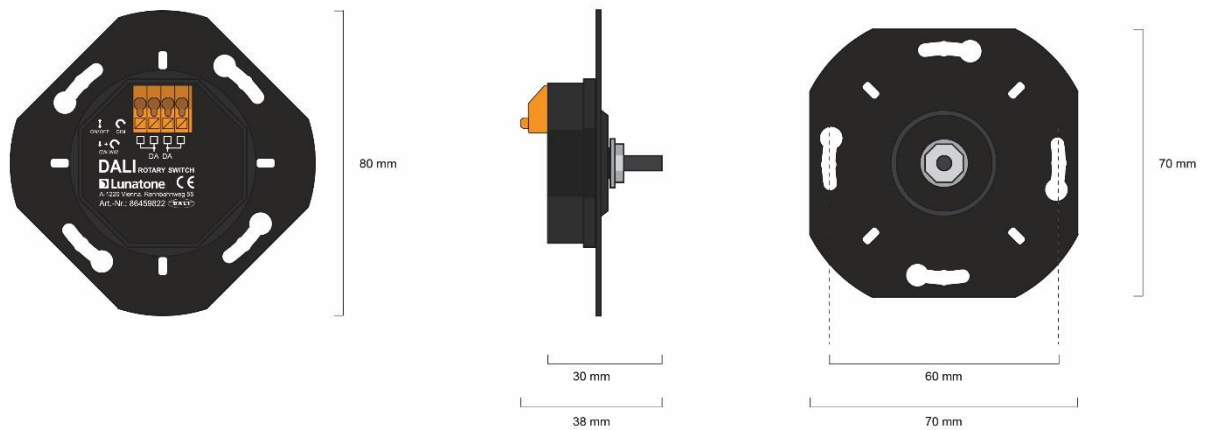
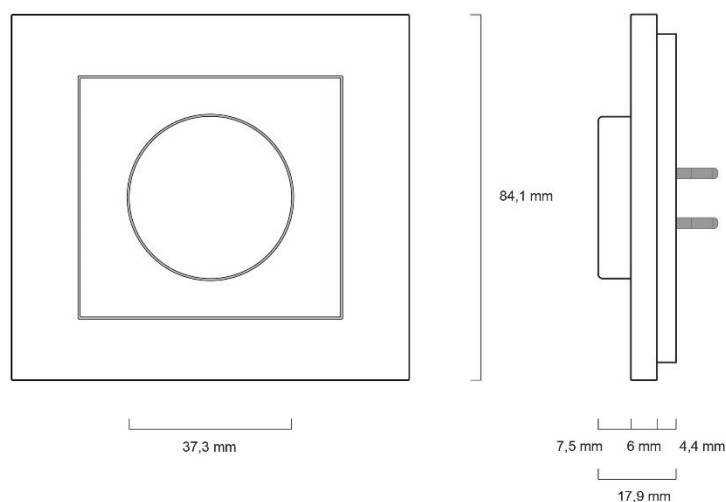|	
supply	via DALI-line
typ. current consumption DALI	3.5 mA
addresses for control gear	0
addresses for control devices	1
output	DALI
control input	rotary knob with integrated pushbutton function

technical data:

function	switch / dim	switch / dim colourtemperature	switch / dim colour	switch / dim colour / white
storage and transportation temperature	-20°C … +75°C			
operational ambient temperature	-20°C … +75°C			
Protection class	II in intended use			

protection degree	IP20
connecting wire cross-section	0.5 to 1.5 mm^2
mounting / intended use	back box
dimensions	70mm x 70mm x 45mm
shaft diameter	4mm (6mm adapter on request)

dimensions DALI ROT

dimensions cover & rotary knob (assessory: Art.Nr. 86459822-Z01/Z02)

Installation

The DALI ROT module is connected and supplied directly by the DALI-line (typ. current consumption 3,5mA).

Multiple DALI ROT modules and DALI luminaires can be connected to a DALI-line, in total up to 64 pcs each. DALI ROT modules

controlling the same group are synchronized automatically. A changeover switch, cross or step relay circuit is not required.

The device is available with, but also without, knob and cover. It can be easily combined with covers of common manufacturers. The module can be attached on a back box (installation depth at least 25mm). The shaft

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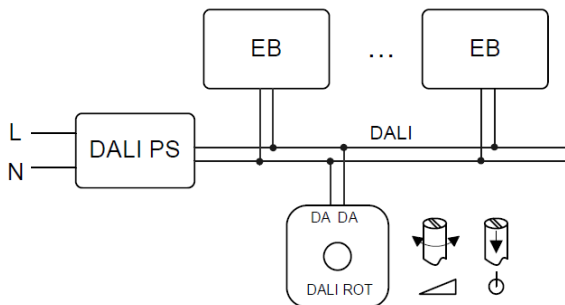diameter is 4 mm (adapter for 6mm on request).

Application and Function

DALI ROT:

The DALI ROT rotary switch is used to control the light level of DALI-compatible luminaires using dim up/down commands.
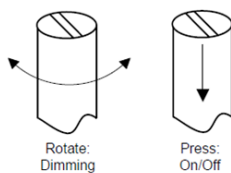
With the help of the DALI Cockpit software tool the commissioning and addressing can be performed easily. Furthermore the destination address and, if required, the minimum and the maximum level can be configured as well as the dimming speed. For simple installations (broadcast) the basic settings are usually sufficient.

Turn clockwise to dim up or counter-clockwise to dim down the light. The respective luminaires can be switched on and off by pushing the knob.
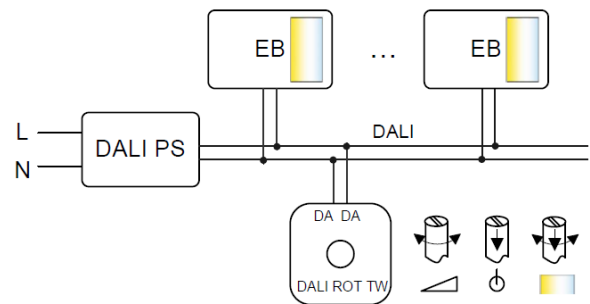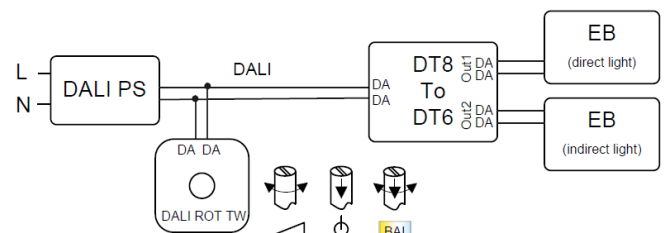
The DALI ROT TW rotary switch is used to control the light level and the colour temperature on DALI-DT8 compatible luminaires (Colour Type Tc) or on DALI capable single luminaires in combination with a DT8toDT6 converter. Even luminaires with separate control for direct and indirect light can be easily operated by this method.

With the help of the DALI Cockpit software tool the commissioning and addressing can be performed easily. Furthermore destination address and, if required, minimum and maximum level can be configured as well as coolest and warmest colour temperature. For simple installations (broadcast) the basic settings are usually sufficient.

Turn clockwise to dim up or counter-clockwise to dim down the light. "Turning while pressing"- action is adjusting the colour temperature respective to the direction. The assigned luminaires can be switched on and off by pushing the knob.

Application: switch and dim with DALI ROT module
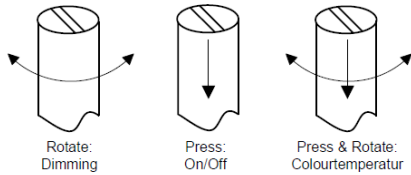
Operator actions:

DALI ROT TW:

Application: tuneable white control using DALI ROT TW

Application: balance- and level control of direct and indirect lighting with the help of a DT8toDT6 converter

Operator actions:

Rotate: Dimming   Press: On/Off   Press & Rotate: Colourtemperatur
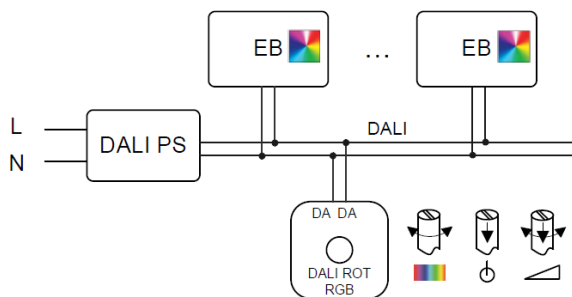
DALI ROT RGB:

The DALI ROT RGB rotary switch is used to control the light level and the colour on DALI-DT8 compatible luminaires (Colour Type RGBWAF).
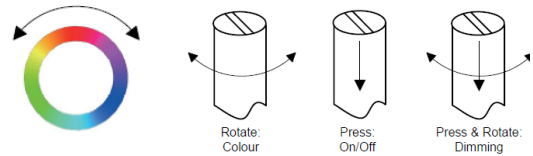
With the help of the DALI Cockpit software tool the commissioning and addressing can be performed easily. Furthermore destination address and, if required, minimum and maximum level can be configured as well as other settings. For simple installations (broadcast) the basic settings are usually sufficient.

Turn clockwise or counter-clockwise to change the colour. "Turning while pressing"- action is adjusting the light level respective to the direction. The assigned luminaires can be switched on and off by pushing the knob.

Application: colour control with DALI ROT RGB

Operator actions:

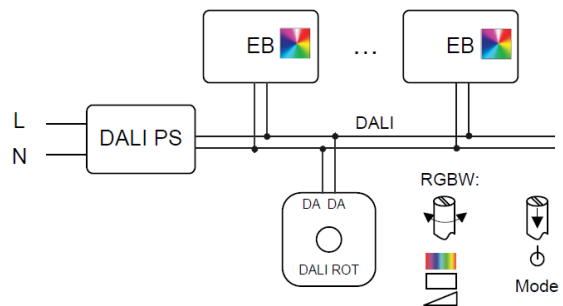Rotate: Colour   Press: On/Off   Press & Rotate: Dimming

DALI ROT RGBW:

The DALI ROT RGB rotary switch is used to control the light level and the colour on DALI-DT8 compatible luminaires (Colour Type RGBWAF).
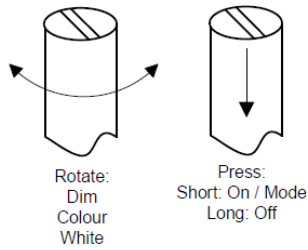
With the help of the DALI Cockpit software tool the commissioning and addressing can be performed easily. Furthermore destination address and, if required, minimum and maximum level can be configured as well as other settings. For simple installations (broadcast) the basic settings are usually sufficient.

If the luminaire is Off, an operator action (press or turn) will switch on the light. Is the luminaire alreasy on a short press is used to switch between control of light level, RGB colour and White light intensity (fallback to light level control after 10 seconds). Turn clockwise or counter-clockwise to adjust the selected behaviour. The luminaire can be switched off by a long button press.
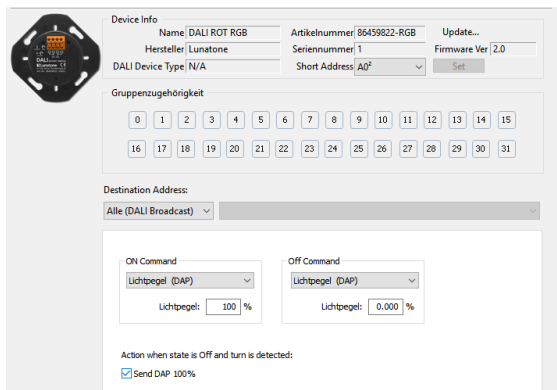

Application: colour control with DALI ROT RGB

Operator actions:

Rotate:
Dim
Colour
White

Press:
Short: On / Mode
Long: Off

The DALI Rotary Switch acts as control device and sends predefined DALI-commands when an operator action (turning or pushing knob) occurs.

The device is based on the standard for DALI control devices (IEC 62386-103). The module works as application controller, the function is described in this datasheet.

Additional Settings

In the DALI-Cockpit the destination address can be configured. Furthermore the commands for Switch-On and Switch-Off can be defined. (in the screenshot the settings in the delivery state is shown). For the On-command the following DALI-commands can be used: DAP, RECALL MAX, RECALL MIN, GOTO SCENE X, GOTO LAST ACTIVE LEVEL; available OFF-commands are DAP0, OFF and GOTO SCENE X.

An additional feature is switching on by rotation (without pressing the button). This feature can be deactivated.

Factory Settings:

DALI ROT are delivered with these settings:

Destination address: Broadcast
On-command: DAP 100%
Off-command: DAP0%

DALI Instruction Set

Purchase Order Information

Art.Nr. 86459822: DALI ROT, rotary switch insert for switching and dimming DALI systems

Art.Nr. 86459822-TW: DALI ROT TW, rotary switch insert for switching, dimming and colour temperature adjustment in DALI systems

Art.Nr. 86459822-RGB: DALI ROT RGB, rotary switch insert for switching, dimming and adjusting colour in DALI systems

Art.Nr. 86459822-RGBW: DALI ROT RGB, rotary switch insert for switching, dimming and adjusting colour and white in DALI systems

Art.Nr. 86459822-CH: DALI ROT, rotary switch insert for switching and dimming DALI systems, suitable for back boxes in Switzerland (Feller)

Art.Nr. 86459822-TW-CH: DALI ROT TW CH, rotary switch insert for switching, dimming and colour temperature adjustment in DALI systems, suitable for back boxes in Switzerland (Feller)

Art.Nr. 86459822-RGB-CH: DALI ROT RGB CH, rotary switch insert for switching, dimming and adjusting colour in DALI systems, suitable for back boxes in Switzerland (Feller)

Art.Nr. 86459822-RGB-CH: DALI ROT RGB CH, rotary switch insert for switching, dimming and adjusting colour and white in DALI

systems, suitable for back boxes in Switzerland (Feller)

Art.Nr. 86459822-Z01: accessory – cover and rotary knob (white)

Art.Nr. 86459822-Z02: accessory – cover and rotary knob (black)

Art.Nr. 86459822-Z03: accessory – adapter for 6mm shaft

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: salg@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.

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