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Eltako

THE NEW DALI PRODUCT LINE FROM ELTAKO

LIGHT CONTROL FOR ALL NEEDS – FROM LED, TUNABLE WHITE AND RGB DIMMERS THROUGH TO CONTROL UNITS



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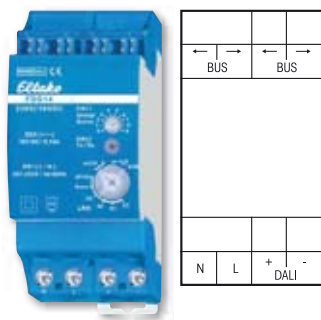
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FDG14



DALI gateway, bidirectional. Only 1 watt standby loss.

Modular device for DIN-EN 60715 TH35 rail mounting. 2 modules = 36 mm wide, 58 mm deep.

Connection to the Eltako-RS485 bus. Bus cross wiring and power supply with jumper.

Operation in conjunction with FAM14.

Power supply 230 V at terminals N and L.

16 V DC/130 mA can be connected to the DALI terminals +/- for up to 64 DALI devices.

The gateway FDG14 controls DALI devices with EnOcean wireless transmitters via the FAM14.

As of production week 14/16 **Groups 0-15** can be controlled and the **broadcast command** can be sent. In addition **DALI scenes 0-15** can be recalled.

DALI installations, which are to be fully controlled with the FDG14, must be configured in groups 0-15.

FDG14 internally saves the dimming value for each of the groups 0-15 and supplies this value as feedback.

The same feedback telegrams are generated as for an FUD14. The FDG14 occupies 16 BR14 device addresses.

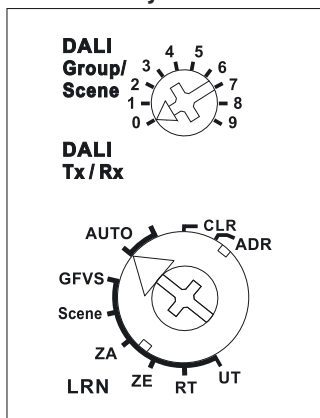
The feedbacks of the device addresses correspond to the dimming values of the DALI groups 0-15 in ascending order. Feedbacks can be converted by the PCT14 for each individual group of dimming value telegrams (%) to pushbutton telegrams (ON/OFF). Feedbacks can then control BR14 actuators. The FDG14 fulfils the function of the DALI master and the DALI power supply. The rotary switches can only teach in pushbuttons for groups 0-8 and DALI scenes 0-9. Activation telegrams for groups 9-15 and scenes 10-15 are only possible by entries in PCT14.

As of Production Week 30/19, the FDG14 can be used as a single-channel device '**FDG14-Broadcast**'. This is defined when the device address is issued.

Important: Wireless pushbuttons always need to be double-clicked when they are taught-in manually in the FDG14. CLR only needs a single click.

A direction pushbutton or universal pushbutton with identical ID and identical pushbutton can be taught in several times in different groups. The group last selected is always valid. Therefore, a pushbutton can either switch only one group or broadcast to all groups. One FBH per group can also be taught in. With a manual teach-in this always acts dependent on brightness. With PCT14 you can also set the brightness threshold. The delay time for switch-off after no motion is detected can be set together in minutes (1 ... 60) for the FBH devices of all groups. The default is 3 minutes.

Function rotary switches



Standard setting ex works.

FDG14	DALI gateway	EAN 4010312316085	90,10 €/pc.
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FDG71L-230V



Wireless DALI gateway, bidirectional. 2 watt standby loss.

Installation for example in suspended ceilings and lamps.
252 mm long, 46 mm wide and 31 mm high. With cable fixation.
Power supply 230 V at terminals N and L.

16 V DC/130 mA can be connected to the DALI terminals +/- for up to 64 DALI devices.
The gateway FDG71L controls DALI devices with EnOcean wireless transmitters.

Groups 0-15 can be controlled and the **broadcast command** can be sent. In addition **DALI scenes 0-15** can be recalled.

DALI installations, which are to be fully controlled with the FDG71L, must be configured in groups 0-15. The FDG71L internally saves the dimming value for each of the groups 0-15 and supplies this value as feedback. The same feedback telegrams are generated as for an FUD71.

The feedbacks of the device addresses correspond to the dimming values of the DALI groups 0-15 in ascending order.

Feedbacks can be converted by the PCT14 for each individual group of dimming value telegrams (%) to pushbutton telegrams (ON/OFF). Feedbacks can then control actuators.

The FDG71L fulfils the functions of the DALI master and the DALI power supply.

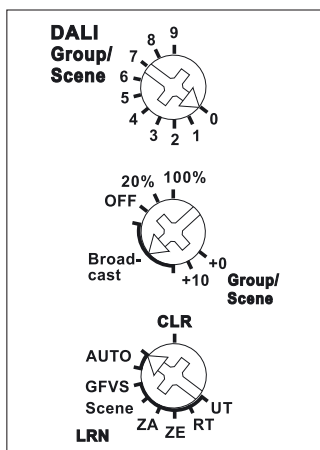
Important: Wireless pushbuttons always need to be double-clicked when they are taught-in manually in the FDG71L. CLR only needs a single click.

A direction pushbutton or universal pushbutton with identical ID and identical pushbutton can be taught in several times in different groups. The group last selected is always valid. Therefore, a pushbutton can either switch only one group or broadcast to all groups.

One FBH per group can also be taught in. With a manual teach-in this always acts dependent on brightness. With PCT14 you can also set the brightness threshold.

The delay time for switch-off after no motion is detected can be set together in minutes (1 ... 60) for the FBH devices of all groups. The default is 3 minutes.

Function rotary switches



Standard setting ex works.

Further settings can be made and actuators configured using the PC Tool PCT14 and the data transformer DAT71.

FDG71L-230V	Wireless DALI gateway	EAN 4010312317556	132,50 €/pc.
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DL-1CH-8A-DC12+

1 channel DALI LED dimmer for luminary installation and flush-mounted box. 59x33x15 mm.
Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, Sw&Dim or SwitchDim2: Operation via 1 or 2 pushbutton inputs permits brightness control without DALI; alternatively, corridor function for direct activation with a motion detector.

Dimming range 0.1%-100%. Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Supply voltage 12 V to 48 V DC.

Max. connected current 8 A.

High efficiency. Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The output channel is controlled by a DALI address (Device Type 6). Alternatively, operation can also take place by one (Sw&Dim) or two pushbutton inputs (SwitchDim2).

SwD1, Sw&Dim: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

If you press the SwD1 input for 2 minutes, the mode changes to 'Corridor function'. This operating mode remains enabled until the device is disconnected from the power supply (after PowerUp: operation via SwD1/SwD2).

Corridor function:

Mode with integrated staircase time switch (e.g. simple activation of one or several motion detectors by relay contact). When you press the input, the maximum value is switched on. After the input signal decays, the brightness remains at this value for the duration of the hold time before it drops down to the intermediate value. After the hold time for the intermediate value expires, brightness returns to the basic value. The process starts from the beginning when the input is re-activated.

The DALI Cockpit software can configure 1-channel LED dimmers. You can define both group assignment and configure scene values and DALI parameters (the parameters displayed are the as-delivered states).

As-delivered state:

Before the first address is assigned, you can control the device using the group address G0. This preset group assignment is deleted when addresses are assigned. Afterwards, you can define any group assignment in the DALI Cockpit. The values defined in the DALI standard are generated by sending a DALI reset command.

DL-1CH-8A-DC12+	1 channel DALI LED dimmer 8 A	EAN 4010312321515	88,20 €/pc.
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DL-1CH-16A-DC12+

1 channel DALI LED dimmer for ceiling installation. 120x30x22 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, Sw&Dim or SwitchDim2: Operating via 1 or 2 pushbutton inputs permits brightness control without DALI; alternatively, corridor function for direct activation with a motion detector.

Dimming range 0.1%-100%. Selectable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Supply voltage 12 V to 48 V DC.

Max. connected current 16 A.

High efficiency. Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The output channel is controlled by a DALI address (Device Type 6). Alternatively, it can also be operated by one (Sw&Dim) or two pushbutton inputs (SwitchDim2).

SwD1, Sw&Dim: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

If you press the SwD1 input for 2 minutes, the mode changes to 'Corridor function'. This operating mode remains enabled until the device is disconnected from the power supply (after PowerUp: operation via SwD1/SwD2).

Corridor function:

Mode with integrated staircase time switch (e.g. simple activation of one or several motion detectors by relay contact). When you press the input, the maximum value is switched on. After the input signal decays, the brightness remains at this value for the duration of the hold time before it drops down to the intermediate value. After the hold time for the intermediate value expires, brightness returns to the basic value. The process starts from the beginning when the input is re-activated.

The DALI Cockpit software can configure 1-channel LED dimmers. You can define both group assignment and configure scene values and DALI parameters (the parameters displayed are the as-delivered states).

As-delivered state:

Before the first address is assigned, you can control the device using the group address G0. This preset group assignment is deleted when addresses are assigned. Afterwards, you can define any group assignment in the DALI Cockpit. The values defined in the DALI standard are generated by sending a DALI reset command.

DL-1CH-16A-DC12+	1 channel DALI LED dimmer 16 A	EAN 4010312321522	102,90 €/pc.
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DL-1CH-R16A-DC12+

1 channel DALI LED dimmer for DIN-EN 60715 TH35 rail mounting. 98x17,5x56 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, Sw&Dim or SwitchDim2: Operation via 1 or 2 pushbutton inputs permits brightness control without DALI; alternatively, corridor function for direct activation with a motion detector.

Dimming range 0.1%-100%. Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Supply voltage 12 V to 48 V DC.

Max. connected current 16 A.

High efficiency. Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The output channel is controlled by a DALI address (Device Type 6). Alternatively, it can also be operated by one (Sw&Dim) or two pushbutton inputs (SwitchDim2).

SwD1, Sw&Dim: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

If you press the SwD1 input for 2 minutes, the mode changes to 'Corridor function'. This operating mode remains enabled until the device is disconnected from the power supply (after PowerUp: operation via SwD1/SwD2).

Corridor function:

Mode with integrated staircase time switch (e.g. simple activation of one or several motion detectors by relay contact). When you press the input, the maximum value is switched on. After the input signal decays, the brightness remains at this value for the duration of the hold time before it drops down to the intermediate value. After the hold time for the intermediate value expires, brightness returns to the basic value. The process starts from the beginning when the input is re-activated.

The DALI Cockpit software can configure 1-channel LED dimmers. You can define both group assignment and configure scene values and DALI parameters (the parameters displayed are the as-delivered states).

As-delivered state:

Before the first address is assigned, you can control the device using the group address G0. This preset group assignment is deleted when addresses are assigned. Afterwards, you can define any group assignment in the DALI Cockpit. The values defined in the DALI standard are generated by sending a DALI reset command.

DL-1CH-R16A-DC12+	1 channel DALI LED dimmer 16 A	EAN 4010312321584	102,90 €/pc.
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TUNABLE WHITE DIMMER



DL-TW-2LT-8A-DC12+

DALI LED dimmer for separate control of brightness and colour temperature. For luminaire installation and flush-mounted box. 59x33x15 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT8: control brightness and colour temperature by a DALI address (Device Type 8, Colour Type Tc) operating mode Balance&Dim: activated via 2 DALI addresses, one to adjust brightness and one to set channel distribution (e.g. colour temperature).

Operating mode Dim2Warm: one DALI address to dim and to change the colour temperature at the same time. SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour temperature without DALI.

Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply depending on type from 12 V to 28 V DC or 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 8 A. The maximum connected current can be distributed to any channel.

High efficiency. Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT8 (as-delivered state): in this mode a DALI address (Device Type 8, Colour Type Tc) is used to control brightness and colour temperature. Alternatively, operation can also take place by one or two pushbutton inputs (SwitchDim2).

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Colour temperature.

Balance&Dim: Control is by means of 2 DALI addresses (or SwitchDim2); one address is used for dimming and the other for channel distribution (i.e., e.g.: tunable white or direct/indirect lighting distribution).

The Balance&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-Tc mode.

Operable via DALI or SwitchDim2:

DALI address 1, SwD1: brightness.

DALI address 2, SwD2: Balance.

Dim2Warm: The two output channels are controlled by a DALI address or an SwD input. Channel distribution is permanently coupled to the dimming value. The smaller the dimming value, the warmer the light.

DALI address 1, SwD1: Dim2Warm (Master). Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

DL-TW-2LT-8A-DC12+	DALI LED dimmer 8 A tunable white	EAN 4010312321461	99,20 €/pc.
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DL-TW-2LT-16A-DC12+

DALI LED dimmer for separate control of brightness and colour temperature. For ceiling installation. 120x30x22 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT8: control brightness and colour temperature by a DALI address (Device Type 8, Colour Type Tc) operating mode Balance&Dim: activated via 2 DALI addresses, one to adjust brightness and one to set channel distribution (e.g. colour temperature).

Operating mode Dim2Warm: one DALI address to dim and to change the colour temperature at the same time. SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour temperature without DALI.

Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply depending on type from 12 V to 28 V DC or 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to any channel.

High efficiency. Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT8 (as-delivered state): in this mode a DALI address (Device Type 8, Colour Type Tc) is used to control brightness and colour temperature. Alternatively, operation can also take place by one or two pushbutton inputs (SwitchDim2).

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Colour temperature.

Balance&Dim: Control is by means of 2 DALI addresses (or SwitchDim2); one address is used for dimming and the other for channel distribution (i.e., e.g.: tunable white or direct/indirect lighting distribution).

The Balance&Dim mode is used to adjust colour temperature without affecting brightness and vice versa. Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-Tc mode.

Operable via DALI or SwitchDim2:

DALI address 1, SwD1: brightness.

DALI address 2, SwD2: Balance.

Dim2Warm: The two output channels are controlled by a DALI address or an SwD input. Channel distribution is permanently coupled to the dimming value. The smaller the dimming value, the warmer the light.

DALI address 1, SwD1: Dim2Warm (Master). Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

DL-TW-2LT-16A-DC12+	DALI LED dimmer 16 A tunable white	EAN 4010312321478	121,30 €/pc.
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TUNABLE WHITE DIMMER



DL-TW-2LT-R16A-DC12+

DALI LED dimmer for separate control of brightness and colour temperature. For DIN-EN 60715 TH35 rail mounting. 98x17,5x56 mm. Protection class IP20. Only 0.12 watt standby loss.

Device with 2 DALI tunable white LED dimmers.

Designed to control **constant voltage** LED modules for 12 V bis 48 V.

2 DALI addresses (Device Type 8, Colour Type Tc).

Each DT8-Tc address permits the separate control of brightness and colour temperature.

Dimming range 1%-100%.

PWM frequency 488 Hz.

Power voltage from 12 V to 48 V DC.

Connected current from 16 A. The maximum connected current can be distributed as required.

High efficiency >98%.

Configuration via DALI Cockpit PC software and DALI USB interface.

Settings:

The device includes 2 DALI tunable white LED dimmers. A DALI address is used to control each dimmer. The addresses support DT8 commands (Colour Type Tc) to control brightness and colour temperature separately from each other.

DL-TW-2LT-R16A-DC12+	DALI LED dimmer 16 A tunable white	EAN 4010312321485	161,70 €/pc.
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DL-RGB-8A-DC12+

DALI LED dimmer with RGB colour control for luminary installation and flush-mounted box. 59x33x15 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT8: a DALI address to control brightness and colour DALI DT8, Type RGBWAF).

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: Operation via 2 switch inputs permit brightness and colour to be controlled without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power voltage 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 8 A. The maximum connected current can be distributed to the channels as required.

Low stand-by losses.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT8 (as-delivered state): In this operating mode brightness and colour are controlled by a DALI address (Device Type 8). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Colour.

Colour&Dim: This operating mode is used to control RGB luminaries. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour). Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2:

DALI address 1, SwD1: brightness.

DALI address 2, SwD2: Colour.

DL-RGB-8A-DC12+	DALI LED dimmer 8 A RGB	EAN 4010312321492	110,30 €/pc.
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RGB DIMMER (DT8)



DL-RGB-16A-DC12+

DALI LED dimmer with RGB colour control for ceiling installation. 120x30x22 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT8: a DALI address to control brightness and colour DALI DT8, Type RGBWAF).

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: Operation via 2 switch inputs permit brightness and colour to be controlled without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power voltage 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to the channels as required.

Low stand-by losses.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT8 (as-delivered state): In this operating mode brightness and colour are controlled by a DALI address (Device Type 8). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Colour.

Colour&Dim: This operating mode is used to control RGB luminaires. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2:

DALI address 1, SwD1: brightness.

DALI address 2, SwD2: Colour.

DL-RGB-16A-DC12+	DALI LED dimmer 16 A RGB	EAN 4010312321508	143,30 €/pc.
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DL-RGB-R16A-DC12+

DALI LED dimmer with RGB colour control for DIN-EN 60715 TH35 rail mounting. 98x17,5x56 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT8: a DALI address to control brightness and colour DALI DT8, Type RGBWAF).

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: Operation via 2 switch inputs permit brightness and colour to be controlled without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power voltage 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to the channels as required.

Low stand-by losses.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT8 (as-delivered state): In this operating mode brightness and colour are controlled by a DALI address (Device Type 8). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Colour.

Colour&Dim: This operating mode is used to control RGB luminaries. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour). Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2:

DALI address 1, SwD1: brightness.

DALI address 2, SwD2: Colour.

DL-RGB-R16A-DC12+	DALI LED dimmer 16 A RGB	EAN 4010312321591	143,30 €/pc.
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LED MULTI-CHANNEL DIMMER (DT6)



DL-3CH-8A-DC12+

**3 channels DALI LED dimmer for luminary installation and flush-mounted box. 59x33x15 mm.
Protection class IP20. Only 0.12 watt standby loss.**

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT6: separate control of channels via 3 DALI addresses.

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply from 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 8 A. The maximum connected current can be distributed to any channel.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT6 (as-delivered state): In this operating mode each channel is controlled by a separate DALI address (Device Type 6). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

Colour&Dim: This operating mode is used to control RGB luminaries. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2: DALI address 1, SwD1: brightness. DALI address 2, SwD2: Colour.

DL-3CH-8A-DC12+	3 channels DALI LED dimmer 8 A	EAN 4010312321546	99,20 €/pc.
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DL-3CH-16A-DC12+

3 channels DALI LED dimmer for ceiling installation 120x30x22 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to activate **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT6: separate control of channels via 3 DALI addresses.

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply from 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to any channel.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT6 (as-delivered state): In this operating mode each channel is controlled by a separate DALI address (Device Type 6). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

Colour&Dim: This operating mode is used to control RGB luminaires. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2: DALI address 1, SwD1: brightness. DALI address 2, SwD2: Colour.

DL-3CH-16A-DC12+	3 channels DALI LED dimmer 16 A	EAN 4010312321539	113,90 €/pc.
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LED MULTI-CHANNEL DIMMER (DT6)



DL-3CH-R16A-DC12+

3 channels DALI LED dimmer for DIN-EN 60715 TH35 rail mounting. 98x17,5x56 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT6: separate control of channels via 3 DALI addresses.

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply from 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to any channel.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT6 (as-delivered state): In this operating mode each channel is controlled by a separate DALI address (Device Type 6). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

Colour&Dim: This operating mode is used to control RGB luminaries. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2: DALI address 1, SwD1: brightness. DALI address 2, SwD2: Colour.

DL-3CH-R16A-DC12+	3 channels DALI LED dimmer 16 A	EAN 4010312321607	113,90 €/pc.
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DL-4CH-8A-DC12+

**4 channels DALI LED dimmer for luminary installation and flush-mounted box. 59x33x15 mm.
Protection class IP20. Only 0.12 watt standby loss.**

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT6: separate control of channels via 4 DALI addresses.

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply from 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 8 A. The maximum connected current can be distributed to any channel.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT6 (as-delivered state): In this operating mode each channel is controlled by a separate DALI address (Device Type 6). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

Colour&Dim: This operating mode is used to control RGB luminaries. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2: DALI address 1, SwD1: brightness. DALI address 2, SwD2: Colour.

DL-4CH-8A-DC12+	4 channels DALI LED dimmer 8 A	EAN 4010312321553	110,30 €/pc.
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LED MULTI-CHANNEL DIMMER (DT6)



DL-4CH-16A-DC12+

4 channels DALI LED dimmer for ceiling installation 120x30x22 mm. Protection class IP20. Only 0.12 watt standby loss.

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT6: separate control of channels via 4 DALI addresses.

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply from 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to any channel.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT6 (as-delivered state): In this operating mode each channel is controlled by a separate DALI address (Device Type 6). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly)

Colour&Dim: This operating mode is used to control RGB luminaires. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2: DALI address 1, SwD1: brightness. DALI address 2, SwD2: Colour.

DL-4CH-16A-DC12+	4 channels DALI LED dimmer 16 A	EAN 4010312321560	125,00 €/pc.
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DL-4CH-R16A-DC12+

**4 channels DALI LED dimmer for DIN-EN 60715 TH35 rail mounting. 98x17,5x56 mm.
Protection class IP20. Only 0.12 watt standby loss.**

Designed to control **constant voltage** LED modules (CV) at operating voltages of 12 V to 48 V, operating mode DT6: separate control of channels via 4 DALI addresses.

Operating mode Colour&Dim: activated by 2 DALI addresses, one to adjust brightness and one to set the colour.

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI. Dimming range 0.1%-100%.

Switchable PWM frequency (122 Hz/244 Hz/488 Hz/976 Hz).

Power supply from 12 V to 48 V DC (depending on operating voltage of LED modules).

Connected current 16 A. The maximum connected current can be distributed to any channel.

High efficiency.

Configuration via DALI Cockpit PC software and DALI USB interface.

Operating modes:

The device has several operating modes:

DT6 (as-delivered state): In this operating mode each channel is controlled by a separate DALI address (Device Type 6). Alternatively, operation can also take place by two pushbutton inputs (SwitchDim2):

SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.

SwD2: Scene switch (press pushbutton briefly).

Colour&Dim: This operating mode is used to control RGB luminaries. Control is by means of 2 DALI addresses; one address affects brightness and the other affects channel distribution (e.g.: colour).

Colour&Dim mode is used to adjust colour temperature without affecting brightness and vice versa.

Adjustment is by means of DALI standard commands such as Dim Up/Down. This permits all customary controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

Operable via DALI or SwitchDim2: DALI address 1, SwD1: brightness. DALI address 2, SwD2: Colour.

DL-4CH-R16A-DC12+	4 channels DALI LED dimmer 16 A	EAN 4010312321577	136,00 €/pc.
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CONTROL UNITS



DL-CTV

DALI control unit for controlling the circadian course of daylight of DT8-Tc capable luminaries. For luminary installation and flush-mounted box. 59x33x15 mm. Only 0.12 watt standby loss.

Device to control DALI-DT8 luminaries (Tc mode) with a daylight pattern adapted to biorhythm. DALI real time clock. Settable automatic summer/winter changeover.

Configurable: scene behaviour and brightness curve.

Set clock and simply adapt the required daylight pattern via DALI Cockpit software tool.

The DALI CDC module is powered directly over the DALI bus.

Internal battery for clock (as-delivered state set to local time (GMT+1)).

Function:

The DALI CDC sends the required colour temperature to the controlled area. A single address, a group address or a broadcast can be defined as the controlled area.

The basis for the colour temperature curve is defined by 24 reference points (one for every full hour).

The colour temperature curve is interpolated between the reference points.

The behaviour can be configured for every GOTO SCENE X command. The DALI CDC can switch to active or inactive or ignore the command. Scene behaviour is configurable for the device address, the controlled area and for broadcast control.

A brightness value can be defined for every reference point (as-delivered state: MASK -> no influence on brightness).

DL-CTV	DALI control unit for controlling the circadian course of daylight	EAN 4010312321430	220,40 €/pc.
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DL-USB MINI



**Interface for communication between PC programs and modules in the DALI lighting system.
For luminary installation and flush-mounted box. 59x33x15 mm. Protection class IP20.**

Interface module for communication between a DALI system and PC applications.
Bidirectional data traffic.

For addressing, configuration, status queries, parameter settings of DALI components.

Support for DALI standard and various extended DALI protocols. Monitoring DALI bus communication.

Galvanic isolation. Powered over the DALI bus and the USB interface.

DALI Cockpit PC software to configure and monitor a DALI system.

Double DALI terminals to loop the DALI bus connection.

DL-USB mini	DALI-USB Interface	EAN 4010312321447	305,00 €/pc.
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DL-FLASH-USB



**Interface for communication between PC programs and modules in the DALI lighting system.
For DIN-EN 60715 TH35 rail mounting. 98x17,5x56 mm. Protection class IP20.**

Interface module for communication between a DALI system and PC applications.
Bidirectional data traffic.

For addressing, configuration, status queries, parameter settings of DALI components. Support for DALI standard and various extended DALI protocols. Monitoring DALI bus communication.

Galvanic isolation. Powered over the DALI bus and the USB interface.

DALI Cockpit PC software to configure and monitor a DALI system.

Double DALI terminals to loop the DALI bus connection.

DL-Flash-USB	DALI-USB Interface	EAN 4010312321614	290,50 €/pc.
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DALI COCKPIT AND DALI-MONITOR

Software to commission DALI systems and monitor DALI bus communication.

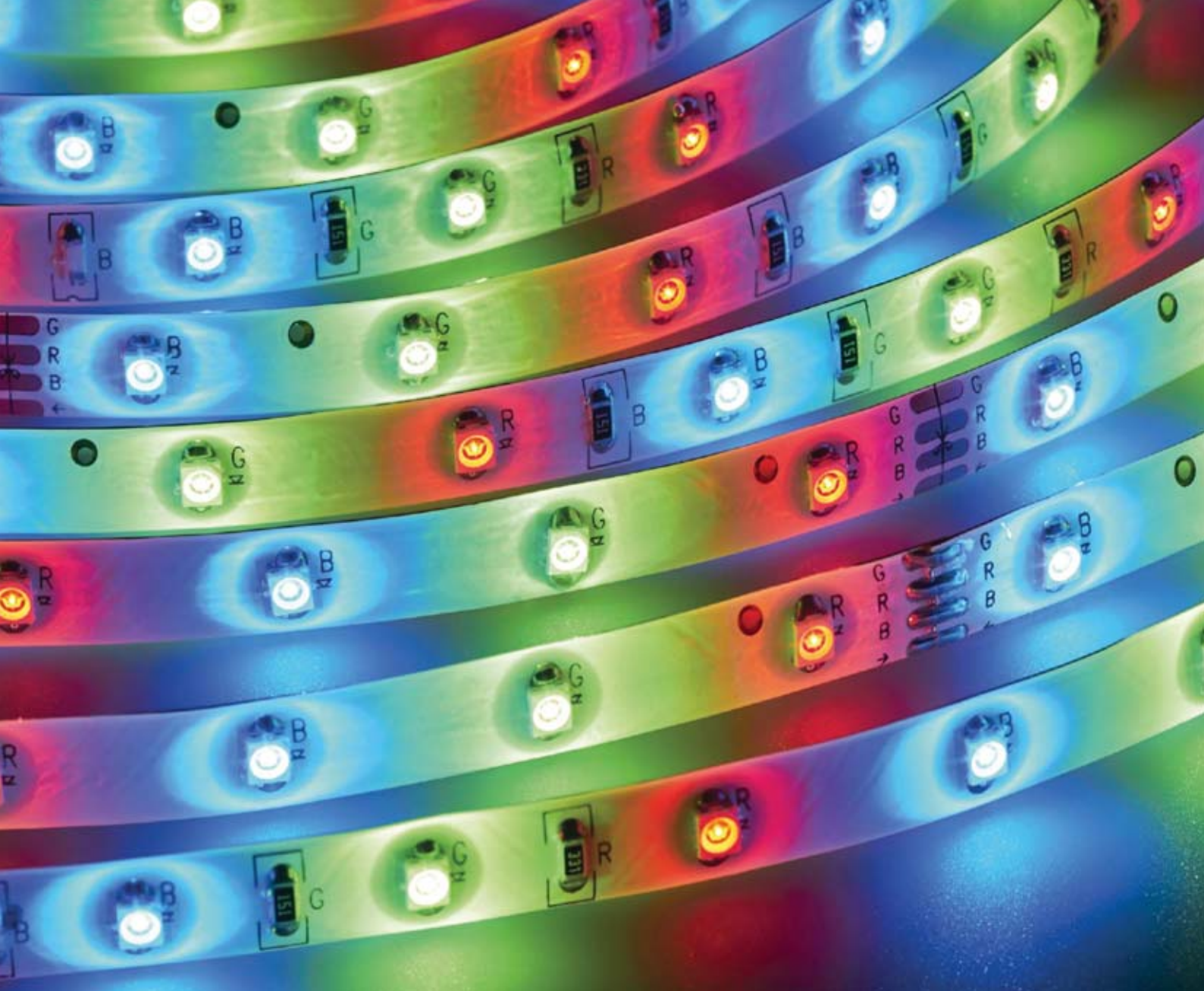
The following functions are supported:

Addressing DALI systems, configuration of DALI components, configuration of standard DALI operating units, definition of groups and scenes, logging bus communication, sending DALI commands and saving/loading the entire system configuration.

The software requires a DALI USB interface module DL-USB mini or SL-Flash- USB.

DALI Cockpit and DALI-Monitor	Software	Download from the Eltako website
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Type	DL-1CH-8A-DC12+, DL-TW-2LT-8A-DC12+, DL-RGB-8A-DC12+, DL-3CH-8A-DC12+, DL-4CH-8A-DC12+	DL-1CH-16A-DC12+, DL-TW-2LT-16A-DC12+, DL-RGB-16A-DC12+, DL-3CH-16A-DC12+, DL-4CH-16A-DC12+	DL-1CH-R16A-DC12+, DL-TW-2LT-R16A-DC12+, DL-RGB-R16A-DC12+, DL-3CH-R16A-DC12+, DL-4CH-R16A-DC12+	DL-USB-mini, DL-Flash-USB
Power supply	12 V DC-48 V DC	12 V DC-48 V DC	12 V DC-48 V DC	via USB
Connected current	8 A	16 A	16 A	-
DALI current consumption	2 mA	2 mA	2 mA	-
State after network recovery	adjustable via DALI: 0%-100%, final value	adjustable via DALI: 0%-100%, final value	adjustable via DALI: 0%-100%, final value	-
Expected service life (at Tc<=75°C)	>100000 h	>100000 h	>100000 h	-
Protection class	IP20	IP20	IP20	IP20
Max. wire cross section	1.5 mm ²	2.5 mm ² , DALI/Sw&Dim: 1.5 mm ² DL-TW-2LT-: 1.5 mm ² , power supply (V+, V-): 2.5 mm ²	2.5 mm ² , DALI/Sw&Dim: 1.5 mm ² DL-TW-2LT-: 1.5 mm ² , power supply (V+, V-): 2.5 mm ²	-
Housing/installation	Luminary installation and flush-mounted box	Ceiling installation	DIN rail DIN-EN 60715 TH35	DL-USB-mini: Flush-mounted box DL-Flash-USB: DIN rail IN-EN 60715 TH35



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