75YEARSOF NOVATION A STRONG FOUNDATION FOR AN EXCITING FUTURE.

NEW PRODUCTS 2024



UNIVERSAL DIMMING ACTUATOR IP VIA WI-FI, UP TO 300W MATTER CERTIFIED, REST-API EUD62NPN-IPM/110-240V



Typical connection











ELTAKO Connect-App http://eltako.com/redirect/eltako-connec



EUD62NPN-IPM/ Universal dimming up to 300 W, REST-A

110-240V





MATTER

The new communication standard, "Matter", signifies a significant advancement in the realm of smart home technologies. Matter is an open, cross-industry standard supported by leading technology companies. Its objective is to enhance interoperability and communication among various smart home devices from different manufacturers. With a strong emphasis on security, reliability, and simplicity, Matter aims to overcome fragmentation in the smart home sector, enabling seamless integration of diverse devices.

X matter

ELTAKO Connect-App



Download ELTAKO Connect-App:





EUD62NPN-IPM/110-240V

Universal dimming actuator IP via Wi-Fi. Matter-certified, REST-API. With power MOSFET. Dimmable 230 V LED lamps in 'trailing edge' mode up to 300 W or in 'leading edge' mode up to 100 W depending on ventilation conditions. 230 V incandescent lamps and halogen lamps up to 300 W depending on ventilation conditions. No minimum load. Only 0.7 watt standby loss.

For installation, 49 x 51 mm wide, 25 mm deep,

- The terminals are plug-in terminals for conductor cross-sections of 0.2 mm² to 2.5 mm².
- Zero passage switching with soft ON and soft OFF to protect lamps.
- Supply voltage, switching voltage and control voltage local 110-240 V.
- The brightness level is stored on switch-off (memory).
- If supply voltage fails, the device is switched off in defined mode.
- Automatic electronic overload protection and overtemperature switch-off.
- With control input for a mains voltage control button that may be installed in front of it.
- Glow lamp current is not permitted.
- The Wi-Fi link uses the 2.4 GHz frequency band and permits Over-the-Air updates (OTA).
- This actuator is Matter certified and can therefore be taught-in into different ecosystems and operated in parallel. To control via Matter, a compatible Matter controller is required for each ecosystem. For Apple Home, for example, a Homepod mini, for Amazon Alexa, for example, a compatible Echo Dot and for Google Home, for example, a Nest mini.
- As an option, the actuator can be configured via the ELTAKO Connect-App.
- A development version of the REST API is available through the device's online product page. This is continuously being further developed.

actuator IP, Matter via Wi-Fi, API	Art. No. 30062007	82,10 €/pc.

DSZ15DZMOD-**3x80A MID ZGW16WL-IP**





The importance of saving energy is continually increasing in our increasingly digitalised world. With its innovative meters and the new meter data gateway, ELTAKO offers an effective solution to better monitor and control your own energy consumption. These technologies enable accurate measurement and detailed analysis of consumption, which not only leads to significant cost savings but also promotes more sustainable use of resources. Integration via Modbus allows the meters to be used in a wide variety of areas. With the meter data gateway, current and historical consumption data can be easily accessed and visualised via the ELTAKO Connect-App or the web interface, which ensures convenient handling.

ELTAKO Connect-App

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Download ELTAKO Connect-App



Typical connection 4-wire-connection 3x230/400 V





Error message

1000 times per kWh.

immediately after a power failure.

The inrush current is 40 mA.

L1 and 0.5 W each at L2 and L3.

protection class IP51.

If a phase connection is missing, the corresponding phase is shown on the display.

DSZ15DZMOD-Modbus bidirectio 3x80A MID



DSZ15DZMOD-3x80A MID



Modbus bidirectional three-phase meter. Maximum current 3x80 A, standby loss only 0.8 watts at

Modular installation device for mounting on mounting rail DIN-EN 60715 TH35 in installation cabinets with

4 modules = 70 mm wide and 58 mm deep.

Accuracy class B (1%). With Modbus/ RTU (RS485) interface.

It measures active energy by means of the current between input and output. The internal power consumption of 0.8 resp. 0.5 watt active power per path is neither metered nor indicated.

The active energy is added depending on the sign. Positive power in the meter means energy consumption, negative power means energy delivery. The energy measurement is balanced. If the energy consumption (P positive) is greater than the energy supply (P negative), the meter reading T \rightarrow is increased. If the energy supply is greater than the energy consumption, the meter reading T \leftarrow is increased. Energy consumption is shown with a right arrow \rightarrow and energy supply is shown with a left arrow \leftarrow above the active bar in the display.

1, 2 or 3 phase conductors with max. currents up to 80 A can be connected.

L1 and N connections must be available.

Connection via RS485 Modbus data logger: Data transfer Modbus/RTU (RS485) and address assignment according to the operating instructions.

Energy consumption and energy supply values are stored in non-volatile memory and are displayed again

The 7 segment LC display is also legible twice within a period of 2 weeks without power supply. The power consumption and the power supply are indicated by an LED next to the display that flashes

On the right next to the display are the keys MODE and SELECT. Press them to scroll through the menu. First the **background lighting** switches on. Then the total active energy per consumption and delivery, the active energy of the resettable memory consumption and delivery as well as the instantaneous power, voltage and current values for each phase conductor can be displayed.

onal three-phase meter, MID	Art. No. 28380516	243,70 €/pc.





Gateway with IP interface via WLAN or LAN. Only 0.9 watt standby loss.



2 modules = 36 mm wide, 58 mm deep.

The WLAN connection uses the 2.4 GHz frequency band. The LAN connection is via RJ45 connector with 10/100Base-T.

The IP connection is via LAN or WLAN. The gateway transmits data from any ELTAKO Modbus electricity meter using the MQTT protocol and REST-API. The data is transferred from the ZGW16WL-IP to any external MQTT broker. For more details on MQTT see: www.mqtt.org.

Commissioning and viewing the current meter values and history are possible via both the ELTAKO Connect-App and the web interface.

Configurations and updates are made via the web interface.

A REST API is available on the device's online product page.

ZGW16WL-IP Modbus energy meter mqtt Gateway via WLAN or lan; MQTT and REST-API M	Art. No. 22016001	128,50 €/pc.	
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languages: https://eltako. KNX_RTU_886

ACCESSORIES

KNX MODBUS RTU GATEWAY KNX RTU 886

KNX	RTU	886

Protection class IP 20.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep.

KNX RTU 886 KNX Modbus RTU





ELTAKO Connect-App https://eltako.com/redirect/eltako-connect







Compact gateway between KNX TP and Modbus RTU with 250 freely configurable channels.

The device allows easy integration of Modbus devices that support the RTU protocol over RS485 and can function as a Modbus master or slave. As a master, the device can address up to 25 slave devices. The association between KNX objects and Modbus registers can be configured via parameters in the ETS. No additional software is required. The KNX bus and Modbus are galvanically isolated from each other. Two buttons and three LEDs enable local operation and visualisation of the device status.

gateway	Art. No. 30000945	266,00 €/pc.
gateway	Art. No. 30000945	266,00 €/pc.

EUD12NPN-**BT/300W-**230V



DIMMER OF THE LATEST GENERATION

We are improving the configuration of our compact devices by using Bluetooth. The user-friendly setup via the ELTAKO Connect-App makes it possible to add advanced functions to the devices. Unlike the time-consuming traditional methods using rotary buttons or displays, Bluetooth wireless connectivity offers a convenient and efficient solution for intuitive configuration. In addition, the device settings can be read as needed and easily transferred to other products.





Download ELTAKO Connect-App



Typical connection







https://eltako.com/redirect/eltako-connec



EUD12NPN-BT/300W-230V

Universal dimmer switch with integrated timer, Bluetooth and ELTAKO Connect-App. Power MOSFET up to 300 W. Automatic lamp detection. Standby loss 0.3 watt only. Minimum brightness, maximum brightness, dimming speed, switching operation for children's rooms, snooze function, motion detector, ON, OFF, TI, ER, ESV, TLZ, MIN, MMX, Programs with time or astro function, time offset solstice, date and time, location and Bluetooth can be set via the app according to the operating instructions.

Modular device for DIN EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. Universal dimmer switch for lamps up to 300 W, depending on ventilation conditions, dimmable 230 V LED lamps and dimmable energy saving lamps (ESL) are also dependent on the lamp electronics and the and the dimming technology. Switching with soft start and soft OFF to protect lamps. Control, supply and switching voltage 230 V. The integrated timer has up to 10 program memory locations. With date and automatic summer time/ winter time changeover. Power reserve without battery approx. 5 days. Each memory location can be used either with the Astro function (automatic switching after sunrise or sunset), or one of the 9 functions (On, Off, On with dimming value in %, On with memory value, light alarm clock, snooze switch, On with residual brightness, Off with residual brightness, TI). In case of a power failure the switching position and the brightness level are stored and is switched on if necessary when the supply voltage returns. Automatic electronic overload protection and over-temperature switch-off. When **delivered**, the 'Auto' operating mode is active. Short control commands at the local control input switch on/off, permanent control changes the brightness up to the maximum value. An interruption in the control changes the dimming direction. The central control is active, with priority and the motion detector switches on with the memory value. In order to change or configure the operating mode, the connection must be established with the ELTAKO Connect-App. Connect the timer to the app:

readiness for pairing again and the blue LED flashes. AUTO allows the dimming of all lamp types. to leading edge.

Trailing edge LC4-LC6 are comfort positions with different dimming curves for dimmable 230 V LED lamps, which cannot be dimmed far enough on Auto. No inductive (wound) transformers may be used in the leading edge and trailing edge settings. In addition, due to the design, the maximum number of lamps may be lower than in automatic mode. By briefly pressing the button on the front, you can always switch it on and off manually. The control input A1 is used to control pulses using a universal button. A direction button for 'off' can be connected via the diode RTD (any polarity). Another direction button for 'on' is connected directly to A1. With the first control pulse 'off', the dimmer switch switches control input A1 to 'direction button'. In order to switch control input A1 back to 'universal button', the supply voltage must be briefly switched off or switched in the app under basic settings. A motion detector can be connected via the BM control input. The additional control inputs ZE and ZA are used to control centrally on and off with priority. With priority because these control inputs cannot be overridden by other control inputs as long as the central control contact is closed. The green LED lighting up signals the activation of one of the four control inputs.

EUD12NPN-BT/	Universal dimmer s
300W-230V	MOSFET up to 300 V





Press the button on the front for 6 seconds, the blue LED flashes. The connection can now be established with the app (delivery status **PIN123123**). The flashing of the blue LED signals that the pairing is ready. This ends automatically after 3 minutes, but can also be ended manually by pressing a button for >6 seconds. Scan the QR code on the operating instructions, the app will guide you through the learning process. After the connection to the app has been established, the blue LED lights up permanently. If the connection is not disconnected via the app, it will automatically disconnect after 20 minutes of no interaction with the app. After disconnecting the connection via the app, the dimmer switch signals its

Change PIN: The PIN for the Bluetooth connection can be changed in the app under the Device PIN entry. Bluetooth reset (delete any changed PIN): Briefly tap the button on the front 8 times.

Leading edge LC1-LC3 are comfort positions with different dimming curves for dimmable 230 V LED lamps, which cannot be dimmed far enough on auto due to their design and therefore have to be forced

witch with Bluetooth, Power	Art. No. 21100807	93,20 €/pc.
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ELTAKO DALI-2 - THE PROFESSIONAL LIGHT CONTROL FOR ALL NEEDS

The second generation of the Digital Addressable Lighting Interface (DALI-2) marks a decisive advance in intelligent lighting technology. As the global standard for lighting controls, DALI-2 improves functionality and compatibility over its predecessor. DALI-2 enables more efficient communication between lighting components, offers greater flexibility and advanced functions for seamless integration into smart building and lighting control systems. With DALI-2, users receive an advanced, standardised control solution to precisely adjust their lighting. ELTAKO offers a comprehensive portfolio of DALI-2 compatible devices, including control gear, sensors, pushbutton couplers and gateways.



Function rotary switches



PC Tool PCT14 (see page 1-5).



Housing for operating instructions GBA14 page 1-50.

RS485 bus DALI-2

FD2G14

can be controlled.

Standard setting ex works.

Further settings can be made using the





DALI-2 gateway, bidirectional. Only 1 watt standby loss.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. Modular device for DIN-EN 60715 TH35 rail mounting.

2 modules = 36 mm wide, 58 mm deep.

FD2G14

switch-on attempts is available.

Connection to the Eltako-RS485 bus. Bus cross wiring and power supply with jumper. Operation in conjunction with FAM14.

- Supply voltage 230 V/50 Hz at terminals N and L.
- The IEC 62386-compliant voltage for DALI devices is provided at the DA +/- terminals.
- Output current 200 mA/max. 250 mA.
- Switch-on ramp-up time max. 250 ms.
- In the event of a short circuit, the power supply switches off the supply voltage. A mechanism for cyclic
- Up to 64 DALI and DALI-2 devices as well as 64 DALI-2 sensors can be operated on the FD2G14, considering the available current of the FD2G14.
- With the FD2G14 gateway, DALI devices are controlled with EnOcean sensor telegrams.
- Groups 0-15 can be controlled and the broadcast command can be sent. In addition DALI scenes 0-15
- DALI installations, which are to be fully controlled with the F2DG14, must be configured in groups 0-15. The evaluation of DALI-2 sensors can be configured and activated using PCT14. DALI-2 event messages can be interpreted and output on the RS485 BUS using the hold terminal. This makes it possible to output data to the Enocean radio network using FTD14.
- The F2DG14 internally saves the dimming value for each of the groups 0-15 and supplies this value as feedback. Feedback telegrams are generated.
- The F2DG14 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. Feedback signals can be converted by PCT14 for each single group from a dimming value telegram (%) to pushbutton telegram (0N/0FF). BR14 actuators can then be activated by the feedback signals.
- The F2DG14 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.
- The F2DG14 can be used as a single-channel device, F2DG14-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 F2DG14. 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.









Compact DALI-2 control module with 1 switching input. For installation. 59 mm long, 33 mm wide, 15 mm deep. Protection class: IP 20. DALI current consumption 4.6 mA.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. Compact DALI-2 control module with 1 switching input for 230 V AC. The DL2-TK1L is powered by the DALI bus, no separate supply is required. The connection to the DALI terminals is polarity-independent. Galvanic isolation between switching input and DALI interface. Multimaster capable, multiple modules

can be installed on the same DALI line. Integrated DALI-2 Application Controller Individual DALI commands, effective range and switching functions can be assigned to each input.

In addition to the standard DALI commands, the application controller also enables DALI DT8: Tunable White and RGB(W) control as well as macros. The module has a DALI-2 instance (pushbutton type, according to IEC62386-301) for easy integration. Supports short press, long press (with repeat for dimming) and toggle. In addition to buttons, it is also suitable for switches. Alternative button function, each of the inputs can also be assigned a second function, which can be activated/deactivated via a scene command on the DALI bus. Configurable 'power-up' behavior. The DL2-TK1L is powered by the DALI bus, no separate supply is required. The connection to the DALI terminals is independent of polarity.

Application and function:

The DL2-TK1L serves as a universal module for controlling DALI compatible lights. The function of each switching input can be set individually.

Like other Lunatone control devices, the settings can be made using the DALI-Cockpit software tool. In principle, a distinction is made between the application controller and the DALI-2 instances. The Application Controller leads to direct DALI control commands that are immediately executed by the DALI drivers. The DALI-2 instances generate event messages that are interpreted and further processed by higher-level control units (WAGO, Beckhoff, LUNATONE DALI-2 KNX Gateway). Application controllers and instances can be active at the same time.

Delivery condition:

When delivered, a basic configuration is already implemented (factory settings). If necessary, this can be changed and adapted to the current application.

DL2-TK1L DALI-2 1-channel pushbutton coupler Art. No. 33000027 156,00 €/pc.	
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Manuals and documents in further languages:
https://eltako.com/redirect/ DL2-TK1L-N-50mA

DL2-TK1L-N-50mA

Compact DALI-2 control module with 1 switching input. For installation. 59 mm long, 33 mm wide, 15 mm deep. Protection class: IP 20.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. Compact DALI-2 control module with 1 switching input for 230 V AC. With integrated DALI bus supply (50 mA), an additional bus supply may not be connected. Galvanic isolation between switching input and DALI interface. Multimaster capable, multiple modules can be installed on the same DALI line. Integrated DALI-2 Application Controller. Individual DALI commandseffective range and switching functions can be assigned to each input. In addition to the standard DALI commands, the application controller also enables DALI DT8: Tunable White and White RGB(W) control as well as macros. The module has a DALI-2 instance for easy integration. Supports short press, long press (with repeat for dimming) and toggle. In addition to buttons, it is also suitable for switches. Easy configuration via a LUNATONE DALI interface and DALI-Cockpit Software tool. Application controllers and instances can be active at the same time. The polarity of the output voltage is visible on the housing (DA+, DA-).

Application and function:

The function of each switching input can be set individually. and instances can be active at the same time.

Delivery condition:

When delivered, a basic configuration is already implemented (factory settings). If necessary, this can be changed and adapted to the current application.

DL2-TK1L-N-	DALI-2 1-channel
50mA	supply





The DL2-TK1L-N-50mA serves as a universal module for controlling DALI-compatible lights.

Like other Lunatone control devices, the settings can be made using the DALI-Cockpit software tool. In principle, a distinction is made between the application controller and the DALI-2 instances. The Application Controller leads to direct DALI control commands that are immediately executed by the DALI drivers. The DALI-2 instances generate event messages that are interpreted and further processed by higher-level control units (WAGO, Beckhoff, LUNATONE DALI-2 KNX Gateway). Application controllers





14





Compact DALI-2 control module with 2 freely programmable switching inputs. For installation. 59 mm long, 33 mm wide, 15 mm deep. Protection class: IP 20.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. Compact DALI-2 control module with 2 switching inputs for 230 V AC. With integrated DALI bus supply (50 mA), an additional bus supply may not be connected. Galvanic isolation between switching input and DALI interface. Multimaster capable. Integrated DALI-2 Application Controller.

Individual DALI commands, effective range and switching functions can be assigned to each input. In addition to the standard DALI commands, the application controller also enables DALI DT8 TC and RGB(W) control. Easy integration through two DALI-2 pushbutton instances. Supports short button press, long button press (with repetition for dimming and toggle. In addition to buttons, also suitable for switches. Alternative button function, each of the inputs can also be assigned a second function, which can be activated/deactivated via a scene command on the DALI bus. Sequences, macros and other functions are available in the Application Controller. Simple configuration via a LUNATONE DALI interface and DALI-Cockpit software tool. The polarity of the output voltage is visible on the housing (DA+, DA-).

Application and function:

The DL2-TK2L-N-50mA serves as a universal module for controlling DALI-compatible lights. The function of each switching input can be set individually.

Like other Lunatone control devices, the settings can be made using the DALI-Cockpit software tool. In principle, a distinction is made between the application controller and the DALI-2 instances. The Application Controller leads to direct DALI control commands that are immediately executed by the DALI drivers. The DALI-2 instances generate event messages that are interpreted and further processed by higher-level control units (WAGO, Beckhoff, LUNATONE DALI-2 KNX Gateway). Application controllers and instances can be active at the same time.

Delivery condition:

When delivered, a basic configuration is already implemented (factory settings). If necessary, this can be changed and adapted to the current application.

DL2-TK2L-N-	DALI-2 2-channel pushbutton coupler + power	Art. No. 33000029	179,00 €/pc.
50mA	supply		





DL2-BH98S-pm

DALI-2 certified

The DL2-BH98 is connected directly to the DALI bus and powered by it. A DALI bus power supply is required; no additional power supply is required. Maximum current consumption 3.5 mA. The connection to the DALI terminals can be made regardless of polarity. The terminals are suitable for wire cross-sections ranging from 0.5 mm² to 1.5 mm². The DALI cables can be designed with standard low-voltage installation material. No special cables are required. Installation of the mounting ring directly on the back box. The housing is then simply plugged onto to the mounting ring. The recessed head has sufficient space within the electrical installation box, enabling a flat installation

Alignment to the desired detection area through 40° vertical tilt and 360° axial rotation. Application controller and instances configurable via DALI-Cockpit. In principle, a distinction is made between an application controller and the DALI-2 instances. The Application Controller leads to direct DALI control commands that are immediately executed by the DALI drivers. The DALI-2 instances generate event messages that are interpreted and further processed by higher-level control units. 4 operating modes:

- Movement triggered
- Movement triggered with constant light control
- Constant light control

- Light control (4 thresholds) Operating modes can be changed via scenes and external DALI commands. Corridor function - second light value for dimming down before switching off. Optional use as an active DALI lighting control unit or as a sensor unit for integration into building management systems. Bidirectional integration via the FD2G14 into the 14 series. Simple configuration via the DALI bus using the PC software tool DALI-Cockpit. Multiple sensor modules can be installed within a DALI system. Automatic synchronisation of multiple sensors with the same effective rang. Dimensions: 98x47 mm Installation depth: 30 mm Colour: polar white mat (similar to RAL9010).

Motion detector:

Detection range: 12 m Typical mounting height:8m Zones: 92 Horizontal: ±51° Vertical: ±46°

Light sensor:

Range: 0-2047 lux (11bit), resolution: 1 lux Event: 0-2047 lux (10 bit), resolution: 2 lux

DL2-BH98S-pm

DALI-2 m



For installing the DALI-2 sensors DL2-BH98B-pm and DL2-BH98S pm in hollow walls and false ceilings with spring clips. Hole cutout 72 mm. Installation depth 30 mm. Protection class IP20.

GZD-BH98 Hou	sing f
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Manuals and documents in further languages: https://eltako.com/redirect/GZD-BH9

Recommended retail prices excluding VAT.





DALI-2 motion/brightness sensor standard. Application controllers and instances. Protection class: IP 20.



Housing for false ceiling mounting of the DL2-BH98B-pm and DL2-BH98S-pm sensors.

or false ceiling mounting	Art. No. 33000032	8,10 €/pc.





DL2-BH98B-pm



DALI-2 motion/brightness sensor office. Application controllers and instances. Protection class: IP 20.

DAI I-2 certified

The DL2-BH98 is connected directly to the DALI bus and powered by it. A DALI bus power supply is required; no additional power supply is required. Maximum current consumption 3.5 mA.

The connection to the DALI terminals can be made regardless of polarity.

The terminals are suitable for wire cross-sections ranging from 0.5 mm² to 1.5 mm². The DALI cables can be designed with standard low-voltage installation material. No special cables are required.

Installation of the mounting ring directly on the back box. The housing is then simply plugged onto to the mounting ring. The recessed head has sufficient space within the electrical installation box, enabling a flat installation

Alignment to the desired detection area through 40° vertical tilt and 360° axial rotation.

Application controller and instances configurable via DALI-Cockpit. In principle, a distinction is made between an application controller and the DALI-2 instances. The Application Controller leads to direct DALI control commands that are immediately executed by the DALI drivers. The DALI-2 instances generate event messages that are interpreted and further processed by higher-level control units.

4 operating modes:

- Movement triggered
- Movement triggered with constant light control
- Constant light control - Light control (4 thresholds)

Operating modes can be changed via scenes and external DALI commands. Corridor function - second light value for dimming down before switching off. Optional use as an active DALI lighting control unit or as a sensor unit for integration into building management systems. Bidirectional integration via the FD2G14 into the 14 series. Simple configuration via the DALI bus using the PC software tool DALI-Cockpit. Multiple sensor modules can be installed within a DALI system. Automatic synchronisation of multiple sensors with the same effective rang.

Dimensions: 98x47 mm Installation depth: 30 mm

Colour: polar white mat (similar to RAL9010).

Motion detector:

Detection range: 2.3 m/3 m Typical mounting height: 3 m Zones: 36/48 Horizontal: ±44°/±90° Vertical: ±44°/±90° Optimised for detecting the smallest movements (e.g. arm movements).

Light sensor:

Range: 0-2047 lux (11 bit), resolution: 1 lux Event: 0-2047 lux (10 bit), resolution: 2 lux

n	2-	R	-19	8	R-	nm

Art. No. 33000031 DALI-2 motion/brightness sensor office

162,50 €/pc.

NEW



tns://eltako.com/redirect/GAP-BH98-nm

GAP-BH98-pm

Housing for surface mounting of the DL2-BH98B-pm and DL2-BH98S-pm sensors. polar white mat (RAL 9010).

For installing the DALI-2 sensors DL2-BH98B-pm and DL2-BH98S-pm. 104x104 mm, 33 mm deep. Protection class IP20.

GAP-BH98-pm	Housing for surface mounting, polar white mat	Art. No. 33000033	15,50 €/pc.
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fanuals and doc tns://eltako 1-1CH-16A-DC12*

DL-1CH-16A-DC12+

Protection class IP20. Only 0.12 watt standby loss.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. 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:

by one (Sw&Dim) or two pushbutton inputs (SwitchDim2). SwD2: Scene switch (press pushbutton briefly). SwD1/SwD2).

Corridor function:

As-delivered state:

Before the first address is assigned, you can control the device using the group address GO. 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-	DALI LED 1 channel dimmer 16 A for ceiling	Art. No. 33000016	146,50 €/pc.
DC12+	installation		





DALI-2 LED 1 channel dimmer for ceiling installation. 120 mm high, 30 mm wide, 22 mm deep.

- The output channel is controlled by a DALI address (Device Type 6). Alternatively, it can also be operated
- SwD1, Sw&Dim: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim.
- 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

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).









DALI-2 LED dimmer for separate control of brightness and colour temperature. For ceiling installation. 120 mm high, 30 mm wide, 22 mm deep. Protection class IP20. Only 0.12 watt standby loss.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. 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 I FD 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 DAKL 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-	DALI-2 LED dimmer 16 A tunable white for ceiling	Art. No. 33000011	172,50 €/pc.
16A-DC12+	installation		



Manuals and documents in furthe

nttns-//eltako.c

DI -RGB-16A-DC12*

DL-RGB-16A-DC12+

Protection class IP20. Only 0.12 watt standby loss.

colour.

Dimming range 0.1%-100%.

Low stand-by losses. High efficiency.

Configuration via DALI-Cockpit PC software and DALI USB interface. **Operating modes:**

The device has several operating modes: SwD2: Colour.

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

DL-RGB-16A-DALI-2 LED RGB of DC12+ installation (DT8)





DALI-2 LED dimmer with RGB colour control for ceiling installation. 120 mm high, 30 mm wide, 22 mm deep.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible.

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

SwitchDim2: Operation via 2 switch inputs permit brightness and colour to be controlled without DALI.

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.

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.

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.

limmer 16 A for ceiling	Art. No. 33000014	199,50 €/pc.





DL-3CH-16A-DC12+



DALI-2 LED 3 channels dimmer for ceiling installation 120 mm high, 30 mm wide, 22 mm deep. Protection class IP20. Only 0.12 watt standby loss.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible.

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 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-16A- DC12+	DALI-2 LED 3 channels dimmer 16 A for ceiling installation (DT6)	Art. No. 33000018	161,40 €/pc.
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DL-4CH-16A-DC12+

Protection class IP20. Only 0.12 watt standby loss.

mode DT6: separate control of channels via 4 DALI addresses. colour.

Dimming range 0.1%-100%.

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

Configuration via DALI-Cockpit PC software and DALI USB interface. **Operating modes:**

The device has several operating modes: SwD1: brightness. Press pushbutton briefly: On/Off. Press pushbutton long: Dim. SwD2: Scene switch (press pushbutton briefly) controls and gateways (e.g. KNX). This control option is an alternative to DT8-RGBWAF mode.

DL-4CH-16A-DALI-2 LED 4 chai DC12+ installation (DT6)





DALI-2 LED 4 channels dimmer for ceiling installation 120 mm high, 30 mm wide, 22 mm deep.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible.

Designed to control constant voltage LED modules (CV) at operating voltages of 12 V to 48 V, operating

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

SwitchDim2: operation via 2 pushbutton inputs permits control of brightness and colour without DALI.

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

nnels dimmer 16 A for ceiling	Art. No. 33000020	174,90 €/pc.





DL-RM8A



NEW DALIZ 👃 🥅 🔒

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. Compact relay module for direct control of 230 V loads over DALI. Loads without DALI input are easily integrated in a DALI circuit. Loads can be switched on/off by DALI commands. The device function complies with the standard for DALI Device Type 7 - switching function (as of Firmware 2.0). Adjustable characteristic for power-up and bus power failure.

The DALI RM8 is powered over the DALI bus. No additional power supply is required.

Zero passage switch-on. The module represents a bus user and is therefore addressable. Configuration via DALI-Cockpit PC software.

DALI functions and command set:

The DALI RM8 can integrate loads on the DALI bus and can then switch them on/off.

The DALI RM8 is a control device for non-dimmable loads based on the DALI specifications in IEC 62386-208 (Device Type 7). Accordingly, the switch characteristic is determined by comparing the virtual dim level (VDAP) with 4 switching thresholds.

The virtual dim level (VDAP) corresponds to the dim level of a DALI electronic ballast with its corresponding characteristics (limited by MINLEVEL and MAXLEVEL, dimming speed limited by fade time and fade rate). There are 2 switching thresholds in each dimming direction and they are used for comparison with the virtual dim level. Only the applicable switching threshold for the current virtual dimming direction is evaluated.

A threshold with the value 'MASK' is inactive and is not used in the comparison. Switch-on/off delays can be implemented with fading.

The DALI RM8 is powered from the DALI bus. The relay response to a bus power failure can be configured by the SystemFailureLevel (no change, ON or OFF, factory setting: ON).

The power-on response after applying bus power can be set with PowerOnLevel.

DL-RM8A DALI-2 relay module 8 A for flush-mounted box (DT7)	Art. No. 33000007	150,20 €/pc.
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DL-PD-300W-RLC

Protection class IP20.

DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. addressable. Double terminals for easy looping of the DALI bus. Dimming range 0.1%-100%. Supply voltage 230 V AC. Output load range 10-300 W. High efficiency. Configuration via DALI-Cockpit PC software. Function:

with 4 switching thresholds.

virtual dim level:

A threshold with the value 'MASK' is inactive and is not used in the comparison. Switch-on/off delays can be implemented with fading. The device is powered from the DALI bus so that there is only partial support for the SYSTEM FAILURE LEVEL. On current devices (identified by Firmware > 4.0), you can choose between 0%,100% and MASK. On older models the SYSTEM FAILURE LEVEL is fixed - the 25 W variant outputs 100%; the 300 W variant outputs 0%.

DL-PD-300W-	DALI-2 Phase dir
RLC	installation (DT4





Phase dimmer with DALI-2 control input for ceiling installation. 120 mm high, 30 mm wide, 22 mm deep.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions.

Suitable for dimming 230 V LED retrofit luminaries using DALI. Converts DALI dimming level to a voltage with leading or trailing edge. The minimum dimming level (MIN LEVEL) is adjustable via DALI. Additional operating mode as switch (conforms to DT7) as from Firmware 3.5. The module represents a bus user and is therefore

The DALI PD is an interface between classic dimming technology (phase dimming) and DALI which is based on the standard for DALI Control Gear (IEC 62386-102) and Device Type 4 equipment (IEC 62386-205). The DALI PD interface converts the required dimming level into a corresponding voltage signal with leading or trailing edge. Depending on the load the universal dimmer operates as a leading or trailing edge dimmer. The operating mode can be requested over DALI (DT4). The dimming characteristic is based on a logarithmic scale as stipulated in the DALI standard. The leading or trailing edge control supplies a sinusoidal voltage with a phase-cut on the leading or trailing edge. The PHYSICAL MINLEVEL is 3%.

As of Firmware version 3.5 the DALI PD is equipped with an additional operating mode. It is switchable from DT4 operating mode (phase dimming) to DT7 (switch). In this operating mode the DALI PD acts as a switch. Its behaviour in this mode corresponds to the DALI standard for DT7 devices (IEC62386-208). In this operating mode the switch characteristic is determined by comparing the virtual dim level (VDAP)

The virtual dim level (VDAP) corresponds to the dim level of a DALI electronic ballast with its corresponding characteristics (limited by MINLEVEL and MAXLEVEL, dimming speed limited by fade time and fade rate). There are 2 switching thresholds in each dimming direction and they are used for comparison with the

nmer 300 W for ceiling	Art. No. 33000009	228,80 €/pc.





DL-PD-300W-RLC-HS



Phase dimmer with DALI-2 control input for DIN top-hat rails DIN-EN 60715 TH35. 98 mm high, 17.5 mm wide, 56 mm deep. Protection class IP20.

DALI-2 certified. DALI-2 is the newest generation of the DALI standard with an extended range of functions. DALI-2 devices also include all previous DALI functions and are therefore backwards compatible. Suitable for dimming 230 V LED retrofit luminaries using DALI Converts DALI dimming level to a voltage with leading or trailing edge. The minimum dimming level (MIN LEVEL) is adjustable via DALI. Additional operating mode as switch (conforms to DT7) as from Firmware 3.5. The module represents a bus user and is therefore addressable. Double terminals for easy looping of the DALI bus.

Dimming range 0.1%-100%. Supply voltage 230 V AC. Output load range 10-300 W. High efficiency. Configuration via DALI-Cockpit PC software. **Function:**

The DALI PD is an interface between classic dimming technology (phase dimming) and DALI which is based on the standard for DALI Control Gear (IEC 62386-102) and Device Type 4 equipment (IEC 62386-205). The DALI PD interface converts the required dimming level into a corresponding voltage signal with leading or trailing edge. Depending on the load the universal dimmer operates as a leading or trailing edge dimmer. The operating mode can be requested over DALI (DT4). The dimming characteristic is based on a logarithmic scale as stipulated in the DALI standard. The leading or trailing edge control supplies a sinusoidal voltage with a phase-cut on the leading or trailing edge. The PHYSICAL MINLEVEL is 3%.

As of Firmware version 3.5 the DALI PD is equipped with an additional operating mode. It is switchable from DT4 operating mode (phase dimming) to DT7 (switch). In this operating mode the DALI PD acts as a switch. Its behaviour in this mode corresponds to the DALI standard for DT7 devices (IEC62386-208). In this operating mode the switch characteristic is determined by comparing the virtual dim level (VDAP) with 4 switching thresholds.

The virtual dim level (VDAP) corresponds to the dim level of a DALI electronic ballast with its corresponding characteristics (limited by MINLEVEL and MAXLEVEL, dimming speed limited by fade time and fade rate). There are 2 switching thresholds in each dimming direction and they are used for comparison with the virtual dim level:

A threshold with the value 'MASK' is inactive and is not used in the comparison.

Switch-on/off delays can be implemented with fading.

The device is powered from the DALI bus so that there is only partial support for the SYSTEM FAILURE LEVEL. On current devices (identified by Firmware > 4.0), you can choose between 0%,100% and MASK. On older models the SYSTEM FAILURE LEVEL is fixed - the 25 W variant outputs 100%; the 300 W variant outputs 0%.

DL-PD-300W-	DALI-2 Phase dimmer 300 W for DIN-EN 60715	Art. No. 33000008	228,80 €/pc.
RLC-HS	TH35 rail mounting (DT4)		

WMS ESR12Z-4DX/110-240V

IMPULSE SWITCH WITH INTEGRATED RELAY FUNCTION, RELAYS AND FURTHER NEW PRODUCTS



ESR12Z-4DX/110-240V

the additional off-delay would have the opposite effect.

system is disconnected in a defined mode.

only $\mathbb{Z} = \mathbb{Z} \mathbb{A}_{1}$ = no central control.

functions may be selected:

OFF for 110-240 V AC, electrically isolated from the local inputs.



Function rotary switches



Standard setting ex works.

Typical circuit with central control and group control



If N is connected, the zero passage switching is active at the contacts 1-2, 3-4 and 5-6.

22

languages:
https://eltako.com/redirect/ ESR12Z-4DX*110-240V

ON = Permanent ON

4S

With 4 independent contacts, 1NO contact each potential free 16 A/250 V AC. 230 V LED lamps up to

Patented ELTAKO Duplex technology (DX) allows you to switch 3 of the 4 normally potential free contacts

To achieve this, simply connect the N conductor to the terminal (N) and the phase conductors to 1(L),

in zero passage switching when 230 V A/C voltage 50 Hz is switched. This drastically reduces wear.

3(L) or 5(L). This results in an additional standby consumption of only 0.1 watt. If the channels are

used to control switchgear that has no zero passage switching, (N) should not be connected, otherwise

Local universal control voltage 110-240 V AC. In addition universal control inputs central ON and central

With additional group control inputs ON and OFF for 110-240 V AC. Same potential like the local control inputs. Groups of these impulse switches can be controlled separately using the group control inputs.

Supply voltage like the local control voltage. By using a bistable relay coil power loss and heating is

avoided even in the on mode. The switched consumers may not be connected to the mains before the

short automatic synchronisation after installation has terminated. Central commands always have priority,

local control inputs are blocked as long as central commands are activated. In case of a power failure the

With the upper rotary switch this impulse switch with integrated relay function can be partly or completely

excluded from central control: ZE+ZA = central ON and central OFF, ZE = central ON only, ZA = central OFF

Use the middle rotary switch to preselect the functions of the lower rotary switch for ES and ER. Use

ER to select the clamp functions. If BM is selected, control can be exerted by a motion detector. Not suitable to feed back the switching voltage signal of a dimmer switch. Use only relays ESR12DDX-UC,

ESR12NP-230V+UC or ESR61NP-230V+UC for this purpose. With the lower rotary switch 18 different

600 W, incandescent lamp load up to 2000 W. Standby loss 0.03-0.4 watt only.

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

= 4-fold impulse switch with 1 NO contact each, control inputs A1, A3, 4xS $\Delta 5$ and $\Delta 7$

- (4xR) = 4-fold switching relay with 1 NO contact each, control inputs A1, A3, A5 and A7
 - = Impulse switch with 4 NO contacts
- = Switching relay with 4 NO contacts (4R)
- = Impulse switch with 3 NO contacts and 1 NC contact 2S/WS
- (2R/WR) = Switching relay with 3 NO contacts and 1 NC contact
- 2WS = Impulse switch with 2 NO contacts and 2 NC contacts
- = Switching relay with 2 NO contacts and 2 NC contacts (2WR)
- SSa = Impulse multi circuit switch 2+2 NO contacts for switching sequence 0-2-2+4-2+4+6; check back signal 8
- (4RR) = closed-circuit current relay with 4 NC contacts = Impulse multi circuit switch 2+2 NO contacts for switching sequence SSb 0-2-2+4-2+4+6-2+4+6+8
- (EW) = Impulse relay for fleeting NO contact with 3 NO contacts and 1 NC contact, wiping time 1 sec
- GS = Impulse group switch. Switching sequence 0-2-0-4-0-6-0; check back signal 8
- = Impulse relay fleeting NC contact with 3 NO contacts and 1 NC contact, (AW) wiping time 1 sec
- = Switch with 4 NO contacts, A1 = set control input and A3 = reset RS control input
- (GR) = Group relay 1+1+1+1 NO contacts
- = 3-fold impulse switch with 1 NO contact each + check back signal 8, 3xS+ control inputs A1, A3 and A5
- (3xR+) = 3-fold switching relay with 1 NO contact each + check back signal 8, control inputs A1, A3 and A5

ESR12Z-4DX/110-240V	Impulse switch with integrated relay function, 4 x 1 NO contact 16 A	Art. No. 21400302	75,00 €/pc.



Typical connections

1(L) (N)

A1 ·

┢-/₁

A2 2

Δ2

A1

110-240V AC

ER12DX/110-240V

2000 W. No standby loss.

Modular device for DIN-EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. capacity of special relays. sumption of only 0.1 watt.

If the contact is used for controlling switching devices which do not perform zero passage switching themselves, (N) should not be connected because the additional closing delay otherwise causes the opposite effect.

Control voltage 110-240 V AC. Very low switching noise.

Contact position indicator with LED. Same terminal connection as electromechanical switching relay R12-100-.

operation.

The electronics does not have an internal power supply and therefore no standby loss. The microcontroller is activated when the control contact closes. This switches the bistable relay to the correct direction. The bistable relay switches back either when the control contact opens or when the control voltage falls.

ER12DX/110-240V Switchir

is active.



If N is connected, the

zero passage switching







1 NO contact potential free 16 A/250 V AC. 230 V LED lamps up to 600 W, incandescent lamp load

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high

With the patented ELTAKO Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear. Simply connect the neutral conductor to the terminal (N) and L to 1(L) for this. This gives an standby con-

By using a bistable relay coil power loss and heating is avoided even in the on mode.

The relay contact can be open or closed when putting into operation. It will be synchronised at first

This relay is not suitable to feed back the switching voltage signal of a dimmer switch. Use only relays ESR12DDX-UC, ESR12NP-230V+UC or ESR61NP-230V+UC for this purpose.

g relay, 1 NO contact 16 A	Art. No. 22100003	38,90 €/pc.



Typical connection



If N is connected, the zero passage switching is active.



ES12DX/110-240V



1 NO contact potential free 16 A/250 V AC, 230 V LED lamps up to 600 W, incandescent lamp load up to 2000 W. No standby loss.

Modular device for DIN-EN 60715 TH35 rail mounting.

1 module = 18 mm wide, 58 mm deep.

With the patented ELTAKO Duplex technology (DX) the normally potential-free contacts can still switch in zero passage when switching 230 V AC 50 Hz and therefore drastically reduce wear.

Simply connect the neutral conductor to the terminal (N) and L to 1(L) for this. This results in an standby consumption of only 0.1 watt.

If the contact is used for controlling switching devices which do not perform zero passage switching themselves, (N) should not be connected because the additional closing delay otherwise causes the opposite effect.

Controlvoltage 110 V AC - 240 V AC at the control input A1/A2.

Verv low switching noise. No permanent power supply necessary, therefore no standby loss.

State-of-the-art hybrid technology combines advantages of nonwearing electronic control with high capacity of special relays.

By using a bistable relay coil power loss and heating is avoided even in the on mode.

The relay contact can be open or closed when putting into operation. It will be synchronised at first operation.

Same terminal connection as the electromechanical impulse switch S12-100-.

If this impulse switch is in a circuit, which is monitored by a FR12-230V mains disconnection relay, no additional base load is required. However, the monitoring voltage of the FR12-230V must be set to 'max'. Control only through A1-A2.

ES12DX/ 110-240V	Impulse switch, 1 NO contact 16 A	Art. No. 21100003	38,90 €/pc.
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Function rotary switch



Standard setting ex works.

Typical connection



EUD12NPN/110-240V

Universal dimmer switch. Power MOSFET up to 400 W. Automatic lamp detection. Standby loss 0.2 watt only. With adjustable minimum or maximum brightness and dimming speed. With switching operation for children's rooms and snooze function.

Modular device for DIN EN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. Universal dimmer switch for lamps up to 400 W, depending on ventilation conditions, dimmable 230 V LED lamps and dimmable energy saving lamps (ESL) are also dependent on the lamp electronics and the and the dimming technology.

Switching with soft start and soft OFF to protect lamps. Control and switching voltage 110 V AC to 240 V AC 50/60 Hz. No minimum load required.

Short-time control commands switch on/off, permanent control varies the brightness to the maximum level. An interruption of control changes the direction of dimming. In case of a power failure the switching position and the brightness level are stored. If applicable the dimmer will be switched on at the stored brightness level after the supply voltage is recovered. Automatic electronic overload protection and over-temperature switch-off. The LED below the top rotary switch on the front shows control commands. It starts blinking after 15 seconds if a pushbutton is inhibited. During operation, the upper rotary switch determines whether the automatic lamp recognition 'AUTO' should be active, or one of the special comfort positions LC1, LC2 or LC3. If the **MEM+** setting range is selected, the **memory function** is active and the last brightness level set is saved when the device is switched off. If the setting range **MEM-** is selected, the memory function is switched off and it is always switched on with maximum brightness. Dimmable energy-saving lamps must be operated on AUTO and MEM.

AUTO allows the dimming of all light species.

phase angle.

curves.

construction.

dimmed up) is adjustable with the **middle** % **- 7** rotary switch. The dimming speed can be adjusted with the lower dimming speed rotary switch. The duration of soft start and soft OFF is changed simultaneously.

pushbutton, it starts at the lowest brightness level after approx. 1 second and dims up slowly as long as the pushbutton is held down without modifying the last stored brightness level. Snooze function: With a double impulse the lighting is dimmed down from the current dimming position to the minimum brightness level and switched off. The current dimming position as well as the adjustable minimum brightness level determine the dimming time (max. = 60 minutes) which can be reduced as required. It can be switched off at any time by short-time control commands during the lighting is dimmed down. Holding down the pushbutton during the dimming down process dims up and stops the snooze function.

and halogen lamps) may be added anytime. enhancer LUD12.

EUD12NPN/110-240V Universal dimmer switch, Power MOSFET up to 400 W	Art. No. 21100808	47,00 €/pc.
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LC1 is a comfort position for dimmable 230 V LED lamps which are not being dimmed down enough when set to AUTO (trailing phase angle) dependent on the construction and must therefore be forced to leading

LC2 and LC3 are comfort positions for dimmable 230 V LED lamps like LC1, but with different dimming

In positions LC1, LC2 and LC3 no inductive (wound) transformers should be used. In addition, the maximum number of dimmable LED lamps can be lower than in the AUTO position dependent on the

The minimum brightness level (completely dimmed down) or the maximum brightness level (completely

With special switching operation for children's rooms: If the light is switched on by holding down the

Mixing of L loads (inductive loads, e.g. wound transformers) and C loads (capacitive loads, e.g. electronic transformers) is not permitted. R loads (ohmic loads, e.g. 230 V incandescent lamps

Mixing of L loads and C loads is possible with the dimmer switch EUD12D in connection with capacity

NOTES











NEW

Weather data multi sensor

The weather data multi sensor WMS sends the current weather details, including brightness from three points of the compass (0...99.000 Lux), wind (0...35 m/s) rain and temperature (-40...+80°C) to the MSR12-UC, FWG14MS or FWS61-24V DC connected in series once per second. A standard telephone wire is sufficient as connecting lead: J-Y(ST)Y 2x2x0.8 or equivalent. 100 m line length is permitted. Solid plastic housing, $1 \times w \times h = 118 \times 96 \times 77 \text{ mm}$, Protection degree IP44, Temperature at mounting location -30° C to $+50^{\circ}$ C. A power supply unit WNT15-24VDC/24W or WNT61-24VDC/10W is required for the power supply, including heating of the rain sensor. To evaluate a WMS multiple times, up to 64 MSR12-UC, FWG14MS or FWS61-24V DC evaluation units can be connected to the weather data multisensor.

WMS Weather data multi sensor	Art. No. 20000085	316,70 €/pc.
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Manuals and documents in further languages:
https://eltako.com/redirect/EBOX

EBOX

Euro container with hinged lid

This EBOX with a volume of 2.2 liters and a weight of 470 g is constructed to Euro dimensions with external dimensions LxWxH 20x15x13.5 cm. With the lid closed, internal dimensions LxWxH 17x12x11.5 cm and stackable. It has sturdy hinges and a practical snap closure. The material is made of easy-care, talcreinforced polypropylene (PP + 30% TALC).

EBOX Euro container with hinged lid	Art. No. 20000050	15,00 €/pc.
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YOU HAVE ANY QUESTIONS, JUST ASK US!!

OUR SUPPORT TEAM IS GLAD TO ASSIST YOU WITH INSTALLATION AND INFORM YOU ABOUT NEW PRODUCTS. Just as professional as our products: Professional support from ELTAKO.

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