



33 000 029 - 1

**DALI-2 2-channel pushbutton coupler + power supply**  
**DL2-TK2L-N-50mA**



**Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!**

Transport and storage temperature: -20°C ... +75°C  
Operating temperature: -20°C ... +55°C  
rel. humidity, non-condensing: 15% ... 90%

**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.**

DALI2 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, 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 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 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. 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 (ELTAKO FD2G14, ELTAKO FD2G71L-230V, WAGO, Beckhoff, LUNATONE DALI-2 KNX Gateway). Application controllers and instances can be active at the same time.

**DALI interface, supply: DA+, DA-**

Type of output	DALI control signal, DALI bus supply
Marking terminals	DA+, DA-
output voltage range	12 V DC ... 20.5 V DC (according to IEC62386)
Guaranteed DALI output current	50 mA
DALI addresses	none
DALI-2 addresses	one

**Input: L, N**

Type of input	supply, mains voltage
Marking terminals	L, N
Input voltage range	120 ... 240 V AC
Input current max.	20 mA (@120 V AC), 10 mA (@240 V AC)
Frequency input voltage	50 Hz ... 60 Hz
Power consumption max.	3 W (depending on bus load)

**Switching inputs: LT1, LT2**

Inputs for	switching input for mains voltage
Number of inputs	2
Marking of input terminals	LT1, LT2
Input voltage	230 V AC +10% / -15%
Frequency input voltage	50 Hz ... 60 Hz / DC
Control pulse length min.	40 ms
Control pulse length for long key presses	> 500 ms
Input resistance	175 kΩ
Max. cable length	10 m (up to 50 m in a interference-free environment i.e. no parallel power lines)
max. voltage between the inputs	230 V AC

**Terminals:**

Connection type	spring-loaded terminal
Connection capacity solid	0.5 ... 1.5 mm² (AWG20 ... AWG16)
Connection capacity fine-wire	0.5 ... 1.5 mm² (AWG20 ...AWG16)
Connection capacity with wire end sleeves	0.25 ... 1 mm²
Stripping length of connecting wires	8.5 ... 9.5 mm

**Standards:**

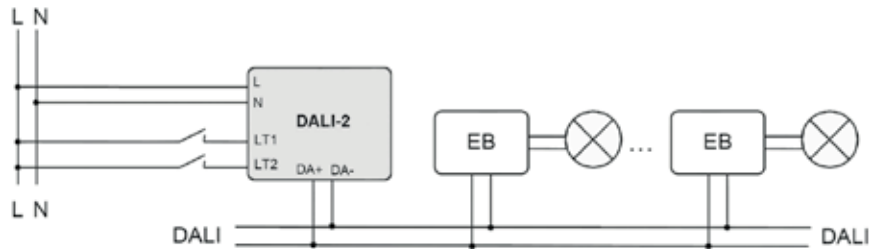
DALI	IEC62386-101:2014 IEC62386-103:2014
EMV	EN 61547 EN 50015 / IEC CISPR15
Electrical safety	EN 61347-2-11 EN 61347-1
Markings	DALI-2, CE, UKCA

**Delivery condition:**

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

	Input LT1	Input LT2
Application controller	active	
Instances - Event messages	inactive	inactive
Destination address	Broadcast	Group 0
Button function	BF6 - Toggle CmdX/CmdY and long press: UP/DOWN	BF13 - Toggle CmdX/CmdY Long press: COLDER/WARMER
Command X (CmdX)	RECALL MAX	None
Command Y (CmdY)	OFF	None
Power UP command	None	None

**Typical connection**



**Manuals and documents in further languages:**



<https://eltako.com/redirect/DL2-TK2L-N-50mA>



**Must be kept for later use!**

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