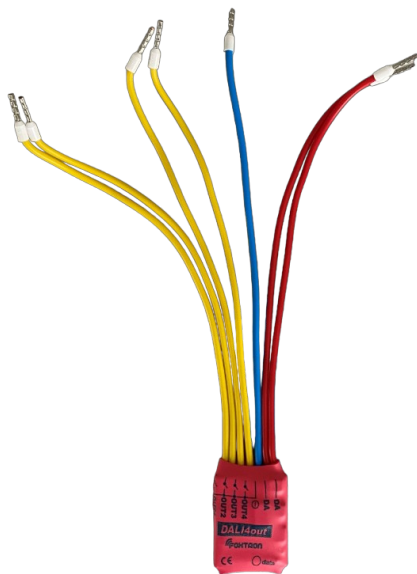# User manual

document version 1.0 for fw from version 1.0

DALI4out

| |
|---|
| 4 channel relay unit up to 100mA |
| 4 switching relays |
| DALI bus control |
| According to EN 62386-208 |
| Indication LED |
| Mounting to KU68 |

DALI4out is a universal relay unit for DALI bus with 4 potential-free outputs that are independently adjustable. Two outputs are switching and two switching. The DALI4out relay unit allows 2 modes: normal and blinds. These modes are switched in the "Advanced Parameters" section.

Technical Specifications		
bus	DALI	
number of outputs	4	
switching voltage	< 30	V
power supply	DALI	
maximum load	100	mA
consumption (from DALI bus)	4	mA
wire gauge (outputs, power supply)	to 2,5	mm^2
degree of coverage	IP20	
ambient working temperature	0 ÷ 50	°C
storage temperature	-10 ÷ 50	°C
weight	16	g

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Signalization	
1, 2, 3, 4	Signalling the switching of the respective channel
P/D	Unit status indication and DALI bus communication illumination indicates power supply to the unit and its correct connection a slight dimming indicates ongoing communications on the DALI bus simple blinking at 1sec intervals indicates unit wiring error • DALI bus not connected • faulty DALI bus power supply (e.g. normal voltage supply) • 230V mains voltage connected to the DALI bus • low supply voltage double blinking at 1sec intervals indicates that one of the channels is switched to manual search mode (physical selection).
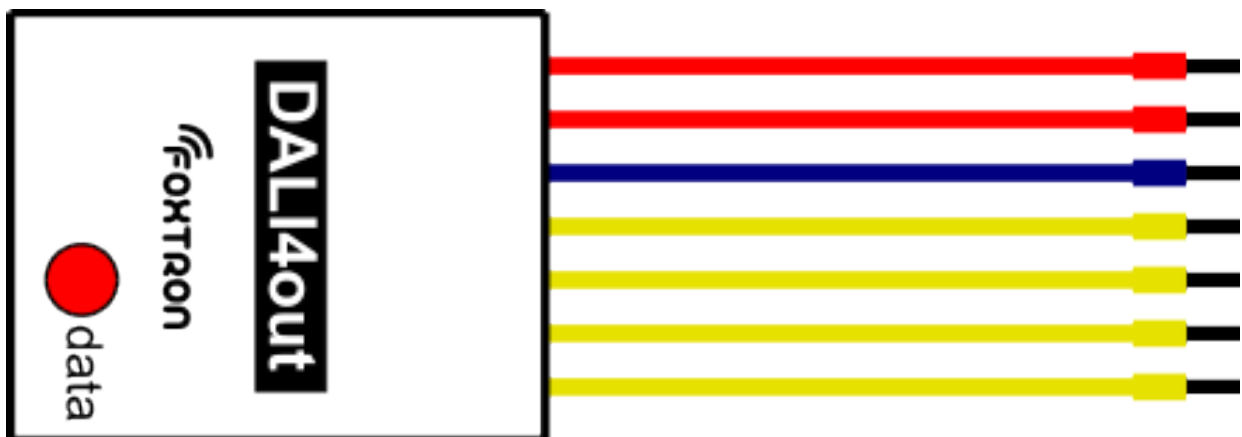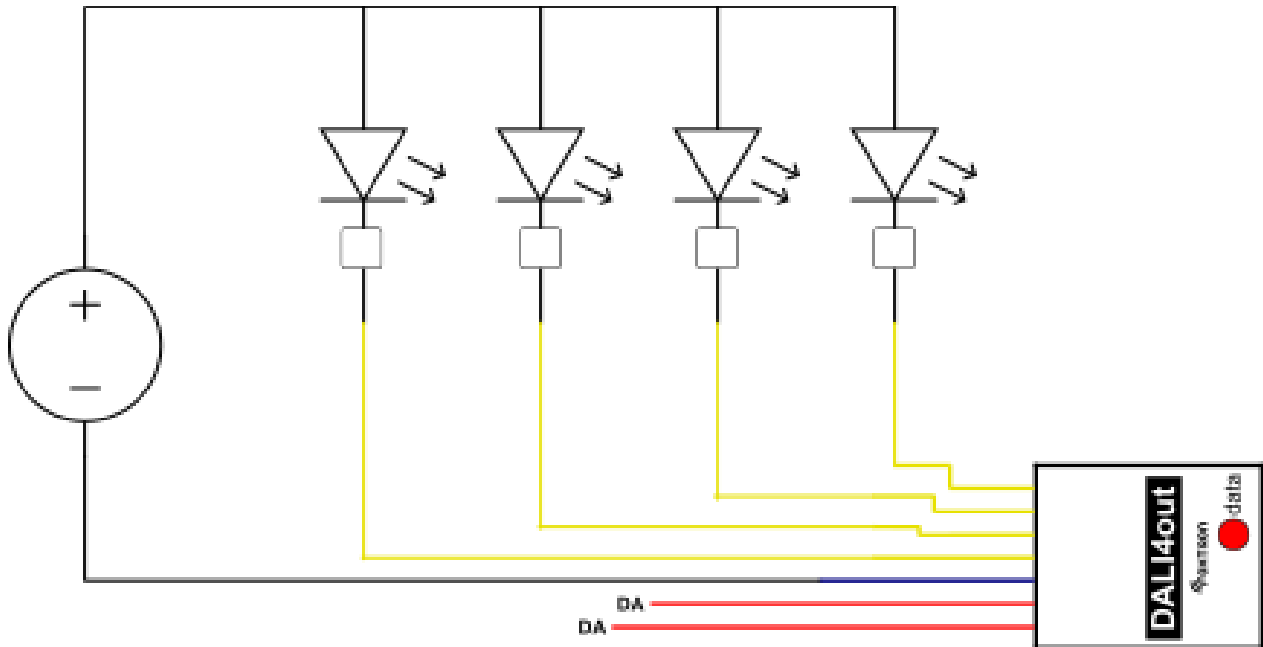
marking	description
DA/DA	DALI bus, two inputs interchangeable

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The DALI4out unit contains 4 independent relays. The control is performed over the DALI bus according to EN 62386-208. The control according to this standard is similar to that for dimmable outputs. Standard messages for dimmers ("direct arc power", "off", "recall max level", "up", "on and step up" etc.) are used to set the virtual dimmable level of each channel (relay). The value of this virtual channel level is converted to the relay output state using the 4 parameters shown in the following table:

„lights on→on"	decision level for relay tripping when increasing the virtual level (up switch-on threshold)
„lights on→off"	decision level to open the relay when increasing the virtual level (up switch-off threshold)
„lights out→on"	decision level for switching the relay when lowering the virtual level (down switch-on threshold)
„lights out→off"	decision level to open the relay when lowering the virtual level (down switch-off threshold)

These parameters can take values 0 - 100% (0 - 254) or "MASK" (255) which means that the parameter is not to be used. The settings can be made with the DALIconfig program, which is available for free download on the website www.foxtron.eu.
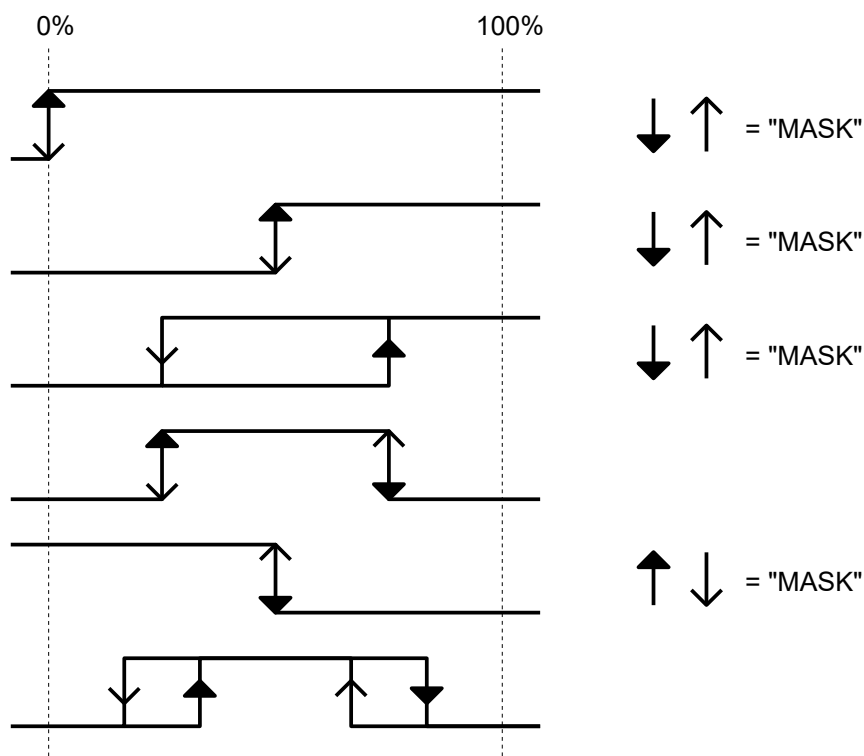
The dependence of the virtual level on the relay closure is shown graphically in the following figure.

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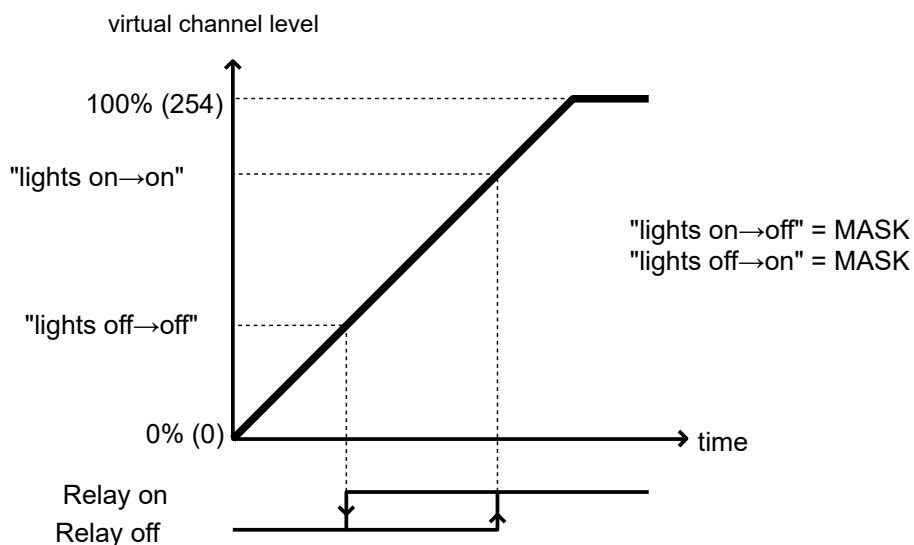
When lighting up, the relay switches on at the level "lighting on→on" and when dimming, the relay switches off at the level "lights off→off". The level values for "lights on→off" and "lights off→on" are set to "MASK" in this case and therefore have no effect

For a zero value of the virtual level, the relay is switched off except when the "lights on→on" parameter is deactivated (by setting to "MASK") - then the relay is switched on for a zero value of the virtual level.

Setup examples

| ↑ "lights on→on" | ↓ "lights off→off" | ↑ "lights on→on" | ↓ "lights off→off" |

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