

# User manual

Document version 1.1 for firmware from 3.2

## DALIrsw



universal rotary controller DALI

endless turning and pressing

bulk/group/address control

power supply from the DALI bus

LED indicator

optional fretboard backlighting

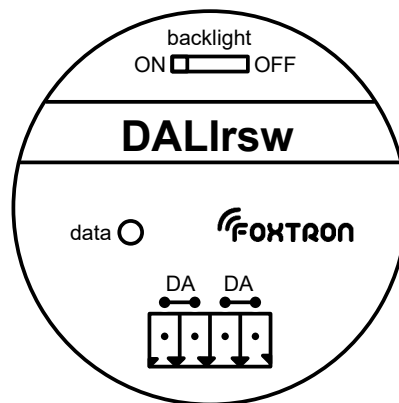
installation into KU68 installation box

Compatible with ABB Tango, Future Linear, Swing, Element, Levit, Neo, Zoni fingerboards (fingerboards not included)

DALIrsw is a universal rotary controller for the DALI bus. Its functions can be configured using the DALIconfig program, which can be downloaded free of charge from the website. [www.foxtron.cz](http://www.foxtron.cz).

Technical Specifications		
bus	DALI / DALI2	
power supply (from DALI bus)	4	mA
wire cross-section	0,5	mm <sup>2</sup>
degree of protection	IP20	
operating ambient temperature	0 ÷ 50	°C
storage temperature	-10 ÷ 70	°C
weight	50	g

Indication	
data	Flashing LED indicates sending or receiving messages on the DALI bus that are addressed to DALIrsw.



Clamps connection	
<i>marking</i>	<i>description</i>
DA/DA	DALI bus, two interchangeable wires

### Backlight

The **backlight** switch allows you to optionally turn on the soft backlighting of the DALIrsw to make the buttons easier to find at night.

## Function

The DALI<sub>rsw</sub> rotary controller is user-programmable.

Settings are configured using the DALI<sub>config</sub> program, which can be downloaded free of charge from [www.foxtron.cz](http://www.foxtron.cz), via a DALI<sub>usb</sub>, DALI<sub>232</sub>, DALI<sub>net</sub>, or DALI<sub>2net</sub> converter.

## DALI2

DALI<sub>rsw</sub> supports the DALI2 standard.

Depending on the "Event filter" setting, it can send the following events to the bus, which can be received by the higher-level system.

Event filter bit	9b.	8b.	7b.	6b.	5b.	4b.	3b.	2b.	1b.	0b.	info
	0	0	0	0							1-63 steps Rotate left (decrementation)
	0	0	0	1							1-63 steps Rotate right (increment)
0b.	0	0	1	0							1-63 steps Rotate left while holding down
	0	0	1	1							1-63 steps Rotate right while holding down
1b.	0	1	0	0	0	0	0	0	0	0	Button released
2b.	0	1	0	0	0	0	0	0	0	1	Button pressed
3b.	0	1	0	0	0	0	0	0	1	0	Short press
	0	1	0	0	0	0	0	0	1	1	Long press start
4b.	0	1	0	0	0	0	0	1	0	0	Long press stop

## Advanced features - DALI2+

The DALI<sub>rsw</sub> rotary switch can directly control lights on the DALI bus.

Depending on the settings, control can be collective, for a group of lights, or addressable for a single light.

One of the **Last level**, **Preset level**, or **Absolute level** modes with slightly different functionality can be set for control.

Enable operation	Enabling advanced DALI2+ features	
Controlled address	Bcast	All lights
	Grp	Group of luminaires (0-15)
	Addr	One light fixture (address 0-63)

### Short button press

With the lights on	The lights are off	
With the lights off	mode Last level	It lights up to the last setting before turning off.
	mode Preset level	It lights up to the value that was saved by pressing and holding the button.
	mode Absolute level	It is lit at a fixed preset value "Preset DAP level".

### Long button press


Last level	A user-defined command will be sent.
Absolute level	Sending is conditional on the "Enable command on long press" setting.
Preset level	If the lights are not currently turned off, the current light level value will be saved as "Preset DAP level." A short press will then turn the lights on to this preset value.

### Rotating

Rotating right	Adds brightness to lights. When the lights are off, they will turn on. The maximum brightness value is determined by the "Max level" parameter, which should correspond to the setting in the lights.
Rotating left	Reduces the brightness of the lights to the minimum level. A short press is required to turn them off. The minimum brightness value is determined by the "Min level" parameter, which should correspond to the setting in the lights.

### Rotating the button while holding it down

When the button is pressed and then turned, dimming does not occur, but one of the following actions may occur.

No function	No action
Chromaticity temperature for DT8-Tc	Color temperature setting. The lights must be DALI type 8 standard. Moving to the right sets a cooler color, moving to the left sets a warmer color. The temperature limits are adjustable and should correspond to the lighting settings.
DALI commands for Turn Left and Right	Sending the preset command "Command when turning Left" or "Command when turning Right".
Color for DT8-RGB	Color settings. This simple color palette is gradually adjusted as you rotate. 

To control color temperature or colors, the luminaires must support DALI type 8 (EN 62386-209).

### Lighting settings

The following settings are stored in DALI luminaires and, for optimal performance, it is recommended that they match the settings in DALI<sub>rsw</sub>. The default values are listed in the right-hand column.

Min level	The minimum lighting level set in the luminaires.	85
Max level	The maximum lighting level set in the luminaires.	254
Power on Level	The default brightness level set in the lights.	254
Enable DAPc sequence	Support for the "DAPc sequence" function in luminaires. DALI2 luminaires support this function as standard; for older luminaires, it can be disabled.	Enabled

### Staircase/corridor function

DALI<sub>rsw</sub> automatically synchronize the current level of the luminaires they control, which means that there can be multiple DALI<sub>rsw</sub> on a single bus controlling the same luminaire or group of luminaires.

Dimensions [mm]

