

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

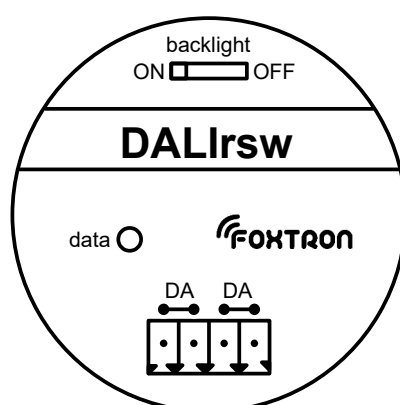
installation into KU68 installation box

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.

Technical Specifications		
bus	DALI / DALI2	
power supply (from DALI bus)	4	mA
wire cross-section	0,5	mm ²
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	
marking	description
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_{rs}w rotary controller is user-programmable.

Settings are configured using the DALI_{config} program, which can be downloaded free of charge from www.foxtron.cz, via a DALI_{usb}, DALI₂₃₂, DALI_{net}, or DALI_{2net} converter.

DALI2

DALI_{rs}w 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
0b.	0	0	0	0							1-63 steps Rotate left (decrementation)
	0	0	0	1							1-63 steps Rotate right (increment)
	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
4b.	0	1	0	0	0	0	0	0	1	1	Long press start
	0	1	0	0	0	0	0	1	0	0	Long press stop

Advanced features - DALI2+

The DALI_{rs}w 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).

Settings by light fixture

DALI luminaires store the "Min level," "Max level," and "Power on Level" settings; for optimal control performance, it is recommended that the settings in the luminaire match those in DALI_{rs}w.

The right-hand column lists the default values stored in DALI_{rs}w.

Min level	The minimum brightness level set on the lights.	85 (1%)
Max level	The maximum brightness level set on the lights.	254 (100%)
Power on Level	The default brightness level set in the light fixtures.	254 (100%)
Enable DAPc sequence	Support for the "DAPc sequence" feature in luminaires, which improves dimming smoothness. DALI2 luminaires support this feature by default; for older luminaires, it can be disabled.	Enabled

Staircase/corridor function

DALI_{rs}w automatically synchronize the current level of the luminaires they control, which means that there can be multiple DALI_{rs}w on a single bus controlling the same luminaire or group of luminaires.

Dimensions [mm]

