DALI-2 Rotary Switch Input Device

DALI 2   CE   RoHS COMPLIANT

Important: *Read All Instructions Prior to Installation*

Function introduction

Front side

The remote control can be fixed on the wall with 3M glue or screw.

SR-2410R-DA2
Power is provided by DALI bus

DALI   CE RoHS

DALI INPUT
DA   DA

DALI signal output
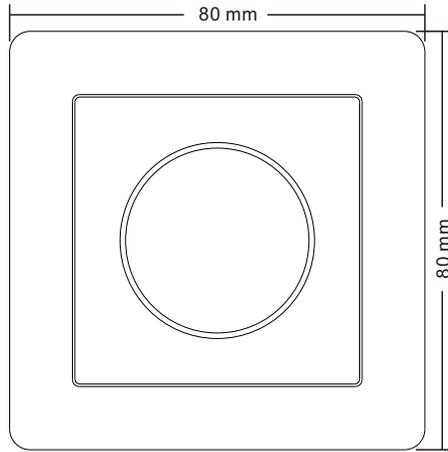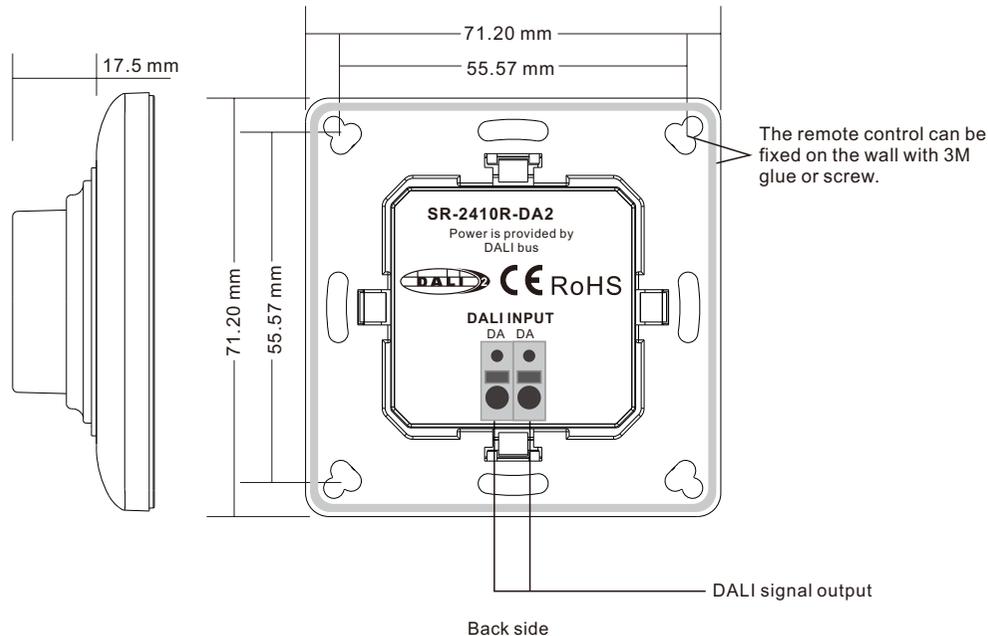
Back side

Product Features

• DALI-2 control device according to IEC62386-101, IEC62386-103, IEC62386-301 and IEC62386-302
• Provides 2 instances, instance 0 is push button instance, instance 1 is rotary movement instance
• Suitable for integration and in combination with DALI-2 compliant central control units
• Multimaster capable, multiple modules can be installed on the DALI- line
• DALI bus powered, no extra power supply required
• Easy configuration via DALI-2 compliant central controller USB interface
• Compatible with universal 55mm frames

Product Data

DALI Interface

Input Type	DALI
Marking	DA, DA
Input Voltage Range	12VDC - 22.5VDC (according IEC62368-101)
Typ. Current Consumption DALI (at 16.5V)	2mA
Max. Current Consumption DALI (Inrush Current at 22.5V)	12mA
Number of Addresses for DALI Control Gear	DALI
Number of Addresses for DALI Control Devices	1

General Data

Dimensions (L x W x H)	80 x 80 x 20.8 mm
Mounting	Wall Mounting or on Conduit Box
Max. casing temperature Tc	75°C
Expected Life Time @Tc	50,000H
Protection Class	II in Intended Use
Protection Degree Housing	IP20
Protection Degree Terminals	IP20
Function	Configurable
Start-up Time	<150ms

Terminals

Connector Type	Push-In
Wire Size Solid Core	0.2 - 1.3 mm2 (AWG26 - AWG16)
Wire Size Fine Core	0.2 - 1.3 mm2 (AWG26 - AWG16)
Wire Size Using Wire End Ferrule	0.25 - 1.0 mm2
Stripping Length	9 - 10 mm / 0.35 - 0.39 inch
Release Connector	Push Button

Environment Conditions

| Storing Temperature	-20°C~+50°C
Working Ambient Temperature	-20°C~+50°C
Relative Humidity	8%- 80%

Standards

DALI	IEC62386-101:2014 IEC62386-103:2014 IEC62386-301 IEC62386-332
EMC	EN 61547 EN 50015 / IEC CISPR15
Safety	EN 61347-2-11 EN 61347-1
Markings	DALI-2, CE

Safety & Warnings

• DO NOT installed with power applied to device.
• DO NOT expose the device to moisture.

Application

Integration in a system with DALI-2 compliant central control unit, push buttons results in input notifications (event messages)
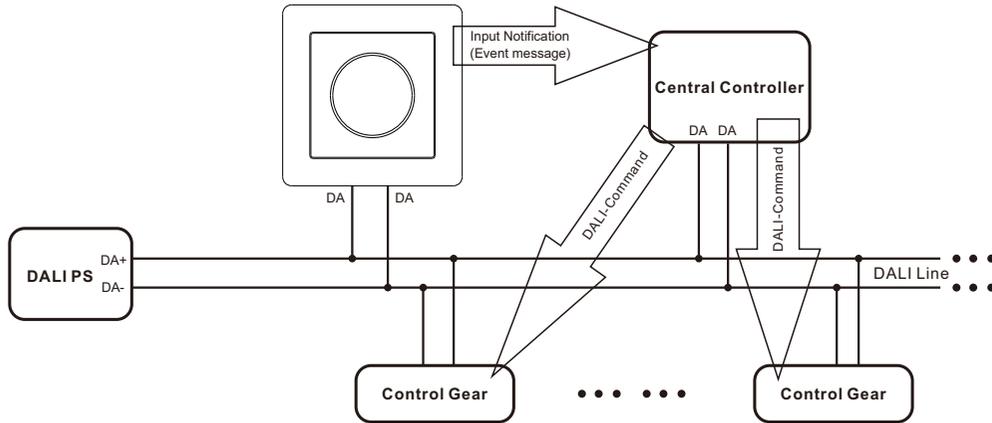
Application and Function

The DALI Switch can be used as input device for the integration in DALI-2 compliant central lighting control systems. In this mode each input ("instance") informs about changes by using so called "input notifications". These event-messages can be evaluated by other controllers on the DALI-line e.g. as trigger for commands sent to luminaires. The device has two instances.

The first instance (instance 0) is assigned to the push button function and corresponds to instance type 1 (according to IEC62386-301: Particular requirements - Input devices-Push buttons).

The second instance (instance 1) is assigned to the rotary movement and uses the instance type 0 (according to IEC62386-103, general purpose).

Events supported by instance 1 (instance type 0, general purpose):

Event name	Event Information	Description
Rotation Clockwise Started	00 0000 0000b	The rotary knob has started to rotate clockwise
Rotation Counter Clockwise Started	00 0000 0001b	The rotary knob has started to rotate counter clockwise
Rotation Stopped	00 0000 0010b	The rotation of the rotary knob has stopped

Events supported by instance 0 (instance type 1, Particular requirements - Input devices-Push buttons):

Event name	Event Information	Description
Button released	00 0000 0000b	The button is released
Button pressed	00 0000 0001b	The button is pressed
Short press	00 0000 0010b	The button is pressed and released, without being pressed quickly again (in case of double press enabled), or the button is pressed and quickly released (in case of double press is disabled)
Double press	00 0000 0101b	The button is pressed and released, quickly followed by another button press
Long press start	00 0000 1001b	The button is pressed without releasing it
Long press repeat	00 0000 1011b	Following a long press start condition the button is still pressed, the event occurs at regular intervals as long as the condition holds
Long press stop	00 0000 1100b	Following a long press start condition, the button is released
Button free	00 0000 1110b	The button has been stuck and is now released
Button stuck	00 0000 1111b	The button has been pressed for a very long time and is assumed stuck.

Additional instance parameters like event filter, event timings (short timer, double timer, repeat timer, stuck timer) can be configured according to IEC62386-301.