# JUMiTECH

# DALI Sequencer

## Datasheet
### Control Module

DALI-control unit for automatic
retrieval of sequences



Art. Nr. 86459582 (back box)
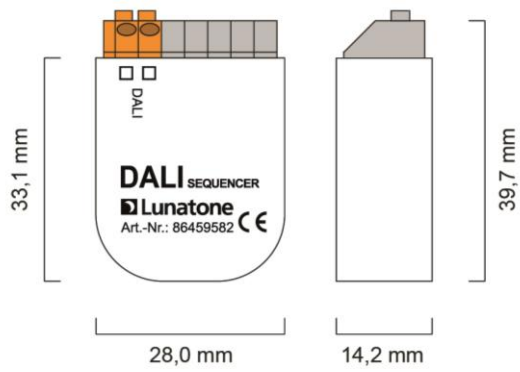Art.Nr. 86459582-HS (dinrail)

# DALI Sequencer  Control Device

## Overview

- DALI control unit for automatic retrieval of sequences

- memory for up to 4 sequences

- types for back box and dinrail mounting

- din rail type provides 4 switching inputs for mains voltage

- Sequences (0-3) are started by recalling the corresponding scene or push the corresponding button (dinrail type only)

- A sequence can combine various command-sequences and scene-recalls

- One command-sequence can consist of up to 19 DALI-commands

- the Sequence can be retrieved single or cyclic

- the DALI Sequencer can be assigned to groups and can react to broadcast commands

- configuration via DALI-Cockpit software.

- multimaster capable, several modules can be installed in one DALI circuit

- the module is supplied by the DALI-line
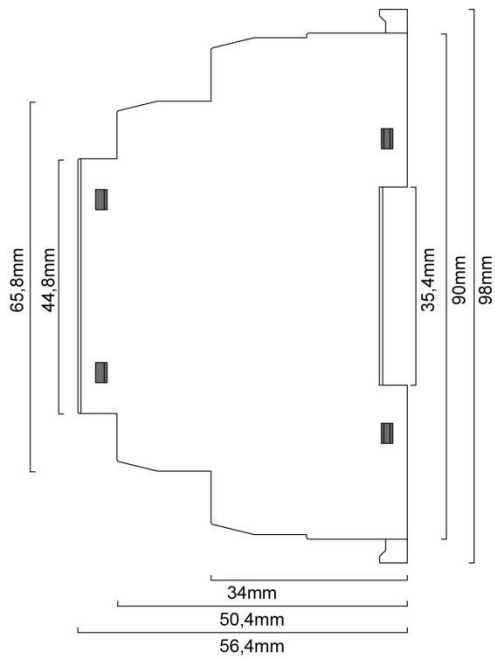
## Specification, Characteristics

| type | DALI Sequencer | |
|---|---|---|
| article number | 86459582 | 86459582-HS |

**electrical data:**

| supply | via DALI-line | |
|---|---|---|
| typ. current consumption DALI | 2 mA | |
| control | DALI | |
| input | DALI | DALI<br>4 switching inputs (mains voltage) |
| galvanic isolation | - | Yes (switching inputs / DALI) |

**Technical data:**

| function | programmable | |
|---|---|---|
| storing and transportation temperature | -20°C … +75°C | |
| operational ambient temperature | -20°C … +75°C | |
| protection class | IP20 | |
| connecting wire cross section | <1.5 mm$^2$ | <2.5 mm$^2$ |
| mounting | back box | dinrail, 1TE |
| dimensions | 39,7mm x 28mm x 14mm | 98mm x 17.5mm x 56mm |

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DALI SEQUENCER
Lunatone
Art.-Nr.: 86459582  C€

33,1 mm

39,7 mm

28,0 mm          14,2 mm

geometry back box

DALI

connection plan back box

65,8mm
44,8mm
35,4mm
90mm
98mm

34mm
50,4mm
56,4mm

17,5mm

DA          DA

L1   L2   L3
L4        N
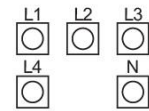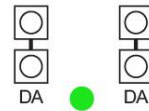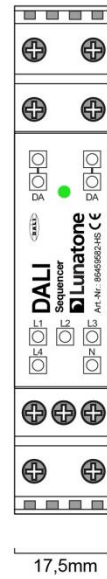
connection plan din rail

geometry din rail

2018-03-16
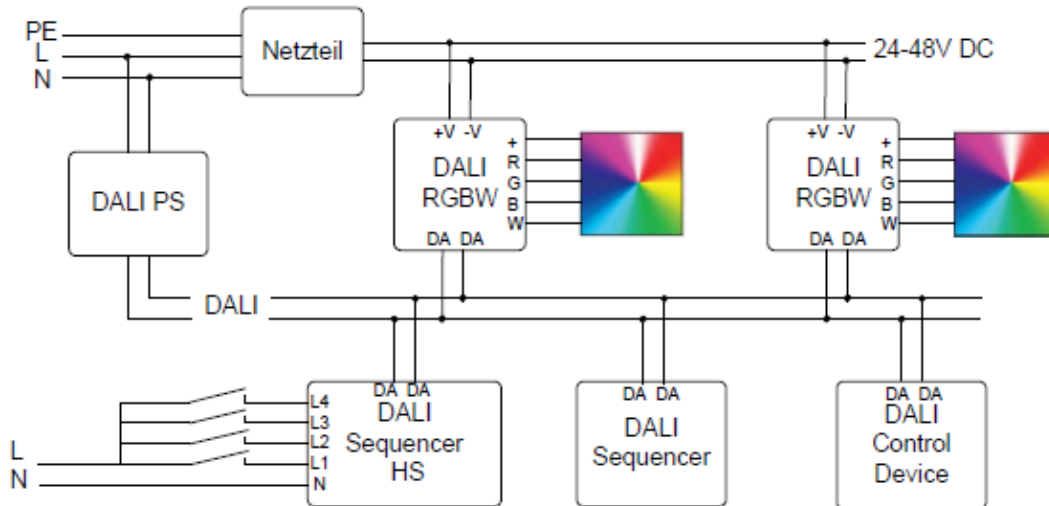
typical application: colour changing ambient lighting

## Installation

The sequencer-module is connected directly to the DALI-line. It is supplied by the DALI-line directly and does not need any additional power supply (current consumption typically 2mA).. The connection to the DALI-line is polarity free and protected against over-voltage.

The module for back box mounting fits into a standard installation box, the module for dinrail mounting provides 4 switching inputs for mains voltage and a LED, which indicates a running sequence by blinking.

## Function and Configuration

The DALI Sequencer can send DALI command-sequences once or cyclic to the DALI-bus. The sequences can be configured with the DALI Cockpit Software and transferred to the module.

The module is able to memorize 4 sequences (sequence 0 -sequence 3), but only one of them can be active at a given moment. To start one of the saved sequences a DALI-address has to be assigened to the module

with the DALI Cockpit Software. Afterwards the sequence can be recalled with

GO TO SCENE commands directed to the modules address.

| Sequence | command |
|----------|--------------|
| 0 | GOTO SCENE 0 |
| 1 | GOTO SCENE 1 |
| 2 | GOTO SCENE 2 |
| 3 | GOTO SCENE 3 |

Running sequences will be stopped if either an OFF-command is sent to the modules address or a new sequence is started with the GO TO scene-command.

The DALI Sequencer-module can be assigned to groups. Sequences can be stopped with an OFF-command directed to the assigned groups or broadcast.

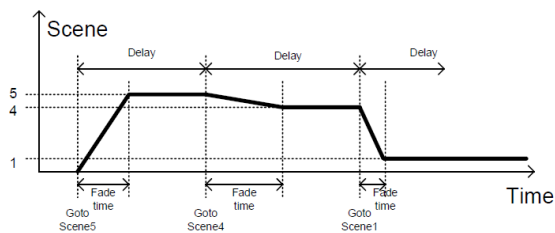Following commands are OFF-commands: OFF, Direct Arc Power, GOTO SCENE X, RECALL MIN und RECALL MAX.

When using the dinrail type the sequences can be started as well by pressing the corresponding input button.

# Sequences

The DALI Cockpit supports 2 types of generating sequences. On the one hand predefined macros "Dynamic Scenes" on the other hand user defined command lists can be used.

**Predefined Macro „Dynamic Scenes"**

When using the „Dynamic Scenes"-macros the effective range and the order of up to 16 scenes can be defined For each scene recall the fade time and the delay (0…254s) to next scene recall can be configured.



For example a sequence for automatic color changing could look like as follows [1]:



**User Defined Macros**

To generate macros, load or safe them as files with the extension *.cot use following menu-point in the DALI-Cockpit Software:

DALI-Bus -> DALI-commands-> „commands over time".

As an example: the scenes 0-3 addressed with A00 and A01 are retrieved with 1min delay each.



Saved files can be imported on the DALI Sequencer configuration-page:



A user defined sequence can include up to 19 DALI-commands.

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[1] please note that the color values are already saved in the scenes of the RGBW-ballast.

## Additional Information

Datasheets and manuals
https://jumitech/produkter

DALI-Cockpit – free configuration tool from
Lunatone for DALI systems
http://lunatone.at/en/downloads/Lunatone_
DALI-Cockpit.zip

## Contact

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### Disclaimer

Subject to change. Information provided without guarantee.
The datasheet refers to the current delivery.

The function in installations with other devices must be tested
for compatibility in advance.