

# LED DALI Sequencer - User Manual



Item No.: LC-004-800

## 1. Product Description

The DALI Sequencer is a DALI Control unit for automatic retrieval of sequences and have a memory for 4 sequences. A sequence can combine various command-sequences and scene-recalls. The module draws 2mA from the DALI circuit, an additional power supply is not necessary.

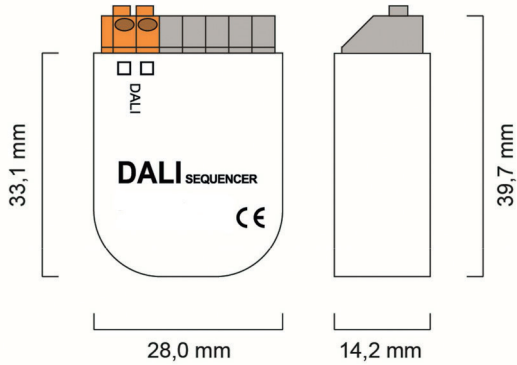
## 2. Specifications

power supply	via DALI-Bus
typ. current consumption	2mA
Input/Output	DALI
function	programmable sequences
max. wire cross-section	1,5 mm <sup>2</sup>
dimensions (L x W x H) in mm	40 x 28 x 15mm
weight	10g

## 3. Description

1. DALI-control unit for automatic retrieval of sequences
2. Memory for 4 sequences
3. A sequence can combine various command-sequences and scene-recalls
4. One command-sequence can consist of max. 19 DALI-commands
5. The Sequence can be retrieved single or cyclic
6. Configuration via DALI-Cockpit software
7. Sequences (0-3) are started by recalling the sequence address
8. If the DALI Sequencer is used in combination with a DALI group running sequences can be stopped via group-commands / broadcast-commands
9. Multimaster capable, several Master-Modules can be installed in one DALI circuit
10. The module fits into a standard lush mount box

## 4. Dimensions



## 5. Instructions

### Function and Configuration

The DALI Sequencer can send DALI command-sequences singular or cyclic to the DALI-bus. These 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).

To start one of the saved sequences the module has to be given an address with the DALI Cockpit Software. Afterwards the sequence can be recalled with the GO TO SCENE command 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 is able to control groups. Sequences can be stopped with an OFF-command directed to the group or via broadcast.

Following commands are OFF-commands:

OFF, Direct Arc Power, GOTO SCENE X, RECALL MIN und RECALL MAX.

This feature enables for example (wiring plan: application example) the recall of a colour scene in group 0 (or broadcast) and simultaneously stopping the Sequencer with this exact same command.

## DALI Instruction Set

In standard operating mode the DALI sequencer functions as an automatic control module. It sends sequences with DALI commands to the bus. The system supports the complete DALI-command set. Therefore commands for various device types can be used in the sequences.

## Sequences

The DALI Cockpit supports 2 types of generating Sequences. Type one uses predefined macros "Dynamic Scenes", type two allows user defined macros.

predefined macros „Dynamic Scenes“

When using the „Dynamic Scenes“-macros the target address, where scene commands should be directed to, can be defined in the input form.

Afterwards up to 16 Scenes can be recalled. With each recall fade-time and delays between calls (0-254sec) can be set.

For example (see wiring plan: application example) a Sequence for automatic color changing (On condition that the correct color values are already saved in the scenes of the RGBW-ballast.):

The screenshot shows the 'Macro Settings' window in the DALI Cockpit. At the top, the 'Zieladresse:' (Target Address) is set to 'Gruppe' and '(GO)'. The 'Command:' dropdown is set to 'Makro: Dynamische Szene'. The main area is a table with 16 rows, each representing a scene in the sequence. Each row has a checkbox for activation, a 'Verzögerung' (Delay) field set to 2, a 'Fade Time' dropdown set to [4] 2sec, and a 'Szene' (Scene) dropdown. The scenes are numbered 0 through 15. At the bottom, there is a checked checkbox labeled 'wiederholen' (repeat).

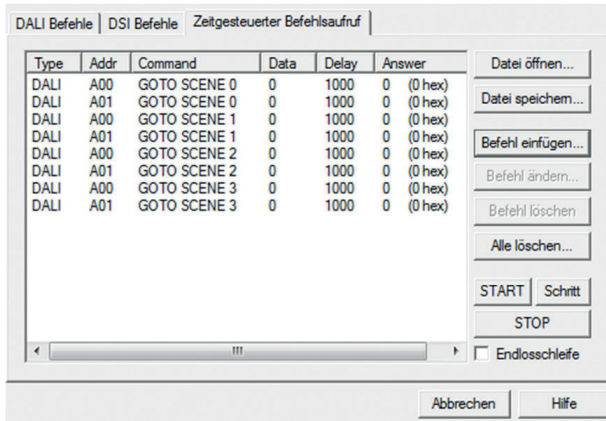
	Verzögerung [0...254sec]	Fade Time	Szene	Verzögerung [0...254sec]	Fade Time	Szene	
1	2	[4] 2sec	Szene 0	9	2	[4] 2sec	Szene 8
2	2	[4] 2sec	Szene 1	10	2	[4] 2sec	Szene 9
3	2	[4] 2sec	Szene 2	11	2	[4] 2sec	Szene 10
4	2	[4] 2sec	Szene 3	12	2	[4] 2sec	Szene 11
5	2	[4] 2sec	Szene 4	13	2	[4] 2sec	Szene 12
6	2	[4] 2sec	Szene 5	14	2	[4] 2sec	Szene 13
7	2	[4] 2sec	Szene 6	15	2	[4] 2sec	Szene 13
8	2	[4] 2sec	Szene 7	16	2	[4] 2sec	Szene 15

wiederholen

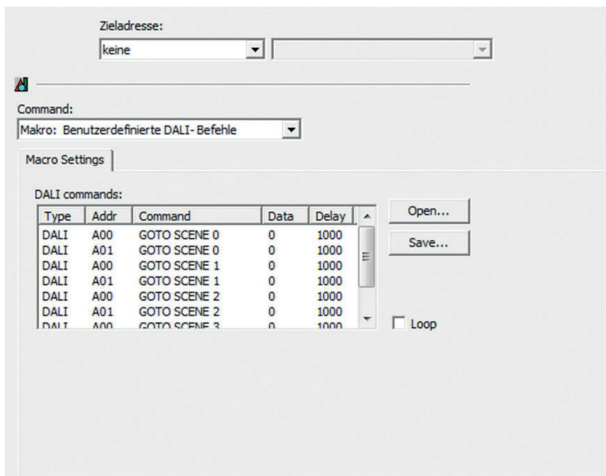
user defined macros

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

DALI-Bus -> DALI-commands subcategory „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 as sequences from the DALI Sequencer configuration-page.



In these user defined command-lists target-addresses are already included in the DALI-commands. A user defined sequence can include up to 19 DALI-commands.

## Connection

The sequencer-module has to be connected directly to the DALI bus. It is supplied with power by the DALI bus and does not need any additional power supply. A typical value of the current consumption is approximately 2mA. In order to supply additional components on a DALI line the installation of a power supply (DALI PS) is required. The connection to the DALI-line is polarity free and immune to over-voltage. The module fits into a standard lush mount box.

## 6. Wiring Diagram

