LED DALI RTC Timer - User Manual

Item no.: LC-004-801

1. Product Description

The DALI RTC Timer is a DALI Real Time Clock with Scheduler. The time can be set and read out via the DALI-Line. The DALI-RTC Timer have a Scheduler Function wit upto 14 entries and each entry job sonsists of status (enabled/disabled), 24h time stamp, activation mask for each day of a week, 1 DALI address and 1 DALI command.
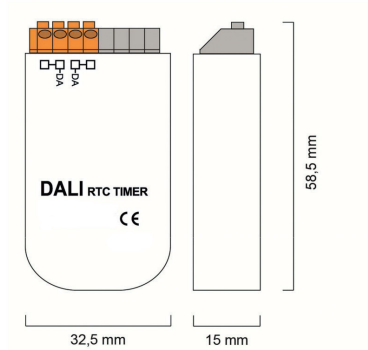
2. Specification

power supply	via DALI signal line
typ. current consumption	5mA
Input/Output	DALI
RTC	quarz based
scheduler	upto 14 programmable entries
max. wire cross-section	1,5 mm2
dimensions (L x W x H) in mm	59 x 33 x 15 mm
weight	10g

3. Description

1. DALI Real Time Clock
2. The time can be set and read out via the DALI-line
3. Scheduler Function – up to 14 entries
4. For each scheduler job weekday mask, time stamp and a DALI command can be defined
5. Easy schedule configuration via DALI Cockpit software tool and DALI USB interface
6. The DALI RTC module must not be connected to the mains. It is supplied directly via the DALI signal line.
7. Simple installation due to DALI double-clamp connector

4. Dimensions

5. Instruction

Addressing and Configuration

Via a DALI-USB interface the DALI-Cockpit software tool can communicate with the DALI RTC Timer. The DALI-Cockpit software is a free configuration tool for DALI systems. Hence standard DALI ballasts can be addressed and configured as well as the DALI RTC Timer.
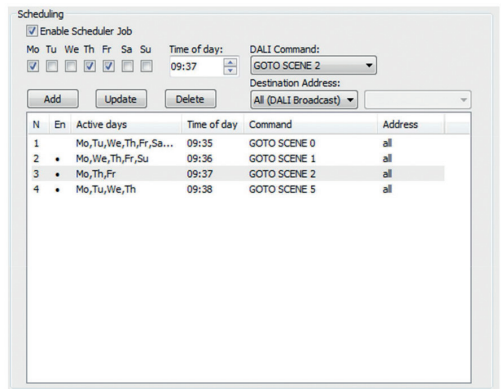
Once detected by the DALI Cockpit the time can be set and the schedule entries can be configured. In the scheduler up to 14 scheduler jobs can be defined. Each entry consists of status, a weekday mask, a time and finally DALI command and DALI address.

The DALI-Cockpit and DALI-USB Interface are only required for configuration and can be removed after setup (see typical installation drawing).

Function

The DALI RTC timer sends out DALI commands to the DALI-line based on the entries defined in the scheduler. Furthermore date and time can be read out using QUERY SCENE commands:

QUERY SCENE 0 LEVEL: seconds
QUERY SCENE 1 LEVEL: minutes
QUERY SCENE 2 LEVEL: hours
QUERY SCENE 3 LEVEL: day of month
QUERY SCENE 4 LEVEL: month
QUERY SCENE 5 LEVEL: year-2000

Installation

The DALI RTC Timer is connected to the DALI line. It is powered like all DALI modules directly by a DALI PS via the DALI signal line. A typical value of the DALI RTC current consumption is 5 mA. The connection to the DALI-line is polarity free and protected against overvoltage of up to 270Vac. The compact DALI RTC Timer can easily be installed in back boxes.

6. Wiring Diagram