

LITECOM CCD DALI-2 Central control unit light management

Art. no. 22171127

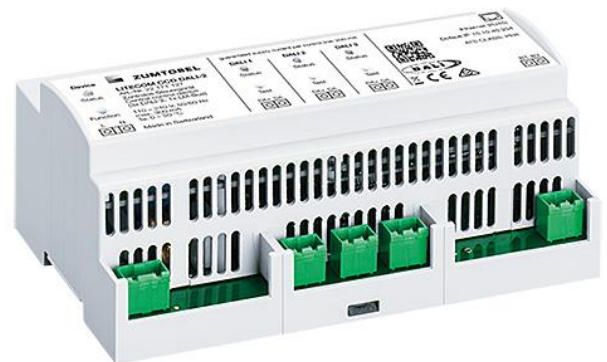
Control unit with 3 DALI-compliant outputs and an LM bus interface for controlling a maximum of 250 luminaires and motors.

Application

Typical applications are trade companies, office areas, law offices, modern medical practices, boutiques, sales spaces and exclusive residential buildings. Commissioning, configuration and operation of the LITECOM system is via a browser-capable device such as a tablet or laptop. The clear user interface guides the user through the different, well-organised levels. A context-based help supports with detailed information. Commissioning is made simpler and quicker with the use of mobile devices. This enables the control of DALI-compatible control gear, LM bus devices and special sensors and operating devices (ED devices). Connected control gear can be individually addressed and grouped.

Design notes

- A LITECOM system can be commissioned with any browser-compliant device.
- Google Chrome must be used as the browser.
- Various display devices (touch panels, tablets etc.) can be used for operating a LITECOM system.
- Using a touch panel for operation is not mandatory.
- A maximum of 250 actuators can be integrated.
- The LITECOM CCD DALI-2 is a central control unit for installation in a control cabinet with an Ethernet connection (TCP/IP).
- The three DALI lines are supplied and supply power for up to 100 bus loads (200mA).
- In addition, special sensors such as ED-Sens or ED-Eye, and special input units or control units such as ED-SxED or ED-Cxx can be connected to the DALI control lines.
- The LITECOM CCD DALI-2 is DALI-2 certified (DALI part 101/103/301/303/304).
- Third party DALI-2 certified input devices can be used if they have certified DALI parts 101 and 103 plus one or more of parts 301/303/304.
- The Luxmate bus is not supplied and requires its own bus supply (20975247 LM-BV or 22115026 LM-BV35) for use.



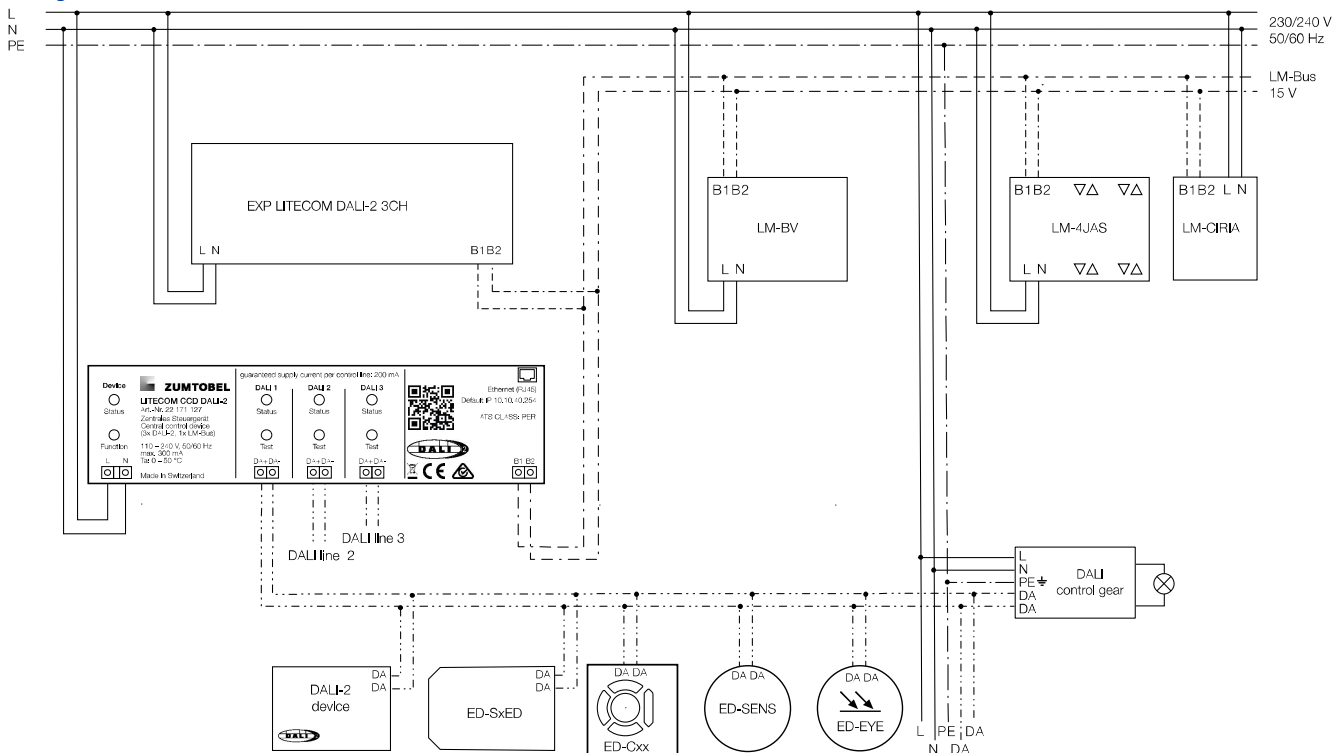
Functional description

With LITECOM CCD DALI-2, the lighting, blinds, screens and windows of a building or project can be controlled. Up to 250 actuators can be driven on one controller.

Basic functions:

- Switching and dimming, calling scenes, activating motor actuators (curtains, screens, windows)
 - Calling of preset light scenes
 - Defining and saving own light scenes
 - Configuration of functions at room or group level
 - Access to the system via web browser
 - Guided commissioning using a wizard
 - Facade protection, wind, rain and temperature alarms via relay contacts
 - Real-time error monitoring
- Supplementary functions are variously available as an APP:
- Daylight-dependent adjustment of artificial light
 - Time management (working hours, weekends, holidays and simple event control) via the calendar that can be configured in LITECOM.
 - Control according to presence or absence
 - Dynamic scenes (Shows, Motivation Cycle)
 - Creation of special luminaires (e.g. from 3 actuators; red, green, blue, defining a colour luminaire)
 - Monitoring and launching of functional test and service life test for emergency lighting (self-contained emergency luminaires)

Wiring scheme



Mounting and installation instructions

- Installation: only in dry and clean surroundings, access only possible with tools; only in solid control cabinet or solid, closed distribution unit complying with standards for fire and touch protection
- Topology: Connect LITECOM CCD DALI-2 and display device (touch panel, computer) via Ethernet cable (topology A) or connect LITECOM CCD DALI-2 and display device (touch panel, computer, mobile terminal) via a wireless access point (topology B)
- Mains cable: must not be interrupted by control points
- Ethernet cable: at least CAT-5 cable, shielded
- Bus line and DALI control line: use standard installation material for low voltage systems (< 1 000 V); only tree, line and star formation cabling permitted
- Bus voltage supply: in the event of a continuous short-circuit, equipped with an automatic switch-off in accordance with EN 62386-101 with restart attempt every second for a duration of 200 ms
- Bus lines: can be interchanged
- DALI control cable

Technical data

Nominal voltage	110–240 V, 50–60 Hz
Permitted input voltage	100–260 V, 50–60 Hz
Power loss	max. 20 W
Outputs	3 DALI-compatible outputs (DALI 1–3) Per output: Maximum of 64 DALI-/DALI-2 addresses and 64 eD addresses guaranteed supply current 200 mA for maximum 100 DALI loads maximum supply current 250 mA
Connections	1 ethernet connection (ethernet): RJ45 plug Data transmission speed: 10/100 MBit/s
Interface	LM bus (B1, B2) (LM system limits depend on the LM bus supply used)
Terminals	0.5–2.5 mm ² (single-wire or fine wire)
Protection type	IP20
Protection class	SC2 (safety isolated) only with correctly installed terminal cover
Housing material	flame-resistant polycarbonate; halogen-free
Installation	On 35 mm top-hat rail according to EN 50022
Dimensions	160 x 91 x 62 (W x H x D, in mm) 9 HP à 17.8 mm
Permissible ambient temperature ta	0–50 °C, on horizontally mounted DIN rail, (e.g. in control cabinet) 0–40 °C, on upright mounted DIN rail
Relative humidity	20–90 %, non-capacitive
Weight	Approx. 0.6 kg

Label/connections

