LOYTEC

L-DALI   BACnet/DALI Controller

LDALI-ME204

L-DALI controllers are multifunctional devices combining constant light control and gateway functions between BACnet and DALI (Digital Addressable Lighting Interface) systems. With alarming, scheduling, and trending (AST™) the L-DALI Controller is a perfect solution for DALI lighting systems and for a smooth DALI integration into BACnet networks.

Constant Light Control

The integrated Constant Light Controller (BACnet Loop Object) handles DALI devices and can be used to implement advanced lighting applications.
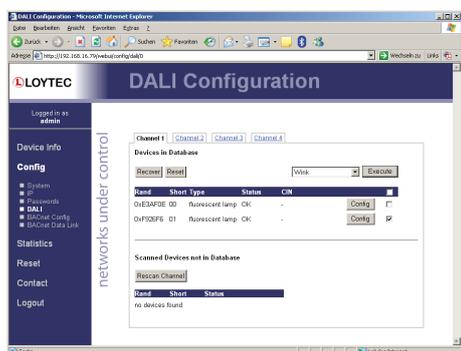
Advanced DALI Functions

L-DALI supports selected DALI presence detectors and light sensors with DALI ballasts. A list of currently supported devices can be found on www.loytec.com.

Fluorescent lamps must be operated about 100 hours with 100 % brightness before they may be dimmed. This burn-in process is monitored by L-DALI for each lamp. After 100 hours burn-in time the lamps constant light control is enabled.

In emergency lighting systems, L-DALI can be used for testing the system. The results can be logged.

For maximum transparency in the lighting system L-DALI can record the operating hours of each lamp and also the projected energy consumption.

Defective DALI ballasts can easily be replaced directly through buttons on the L-DALI controller or via the Web interface. No software tool is necessary.

Smooth DALI integration in BACnet networks

The L-DALI Controller maps information from the DALI network to BACnet Objects to control DALI ballasts or to display operating states. L-DALI represents a DALI-Master in the DALI network which can interact with selected DALI multi-sensors in Multi-Master mode.

Network Connection

The L-DALI lineup for BACnet networks features 4 independent DALI channels. Up to 64 DALI-based luminaries per DALI channel can be controlled individually or via 16 groups. All luminaries are monitored for lamp or ballast defect.
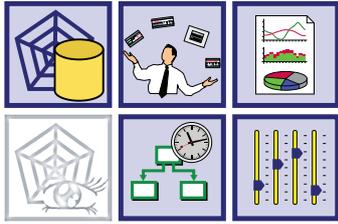
L-DALI Controller for BACnet can be connected either to an BACnet/IP channel (Ethernet/IP) or a MS/TP channel.

The BACnet interface includes the following objects:

DALI ballasts
- Analog Output Objects
- Analog Input Objects

Setting of dim values, operating parameters and configuration of light application parameters such as staircase lighting.

L-DALI BACnet/DALI Controller

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DALI groups and DALI channels
- Analog Output Objects
- Analog Input Objects
- Multi-State Output Objects
- Accumulator Objects

Setting of dimm values, scene control, accumulated energy usage (calculated), status and health of lamps

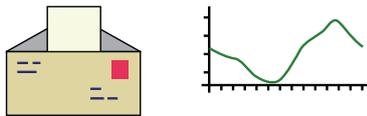DALI sensors
- Analog Input Objects
- Binary Input Objects

Lux level and occupancy sensor values

Constant Light Controller
- Loop Objects

Availablity of up to 16 constant light controller instances for each DALI channel

The device configuration is done with the integrated Web server. All data points are available in a tree structure on the integrated Web server to be displayed or set using a standard Web browser.

DALI lighting application parameters are available through the BACnet interface and can be accessed using the BACnet Operator Workstation (BOWS).

Local Data Storage, Data Provision and Reporting

L-DALI Controllers can store trend and event logs locally. For this purpose it provides 64 BACnet Trend Log Objects. In addition, trend and event logs can be read via FTP as CSV files. For long-term data storage the LWEB-801 Server with SQL database connection is available. LWEB-801 Server stores the information in its SQL database. LWEB-830 Dream Report is provided optionally for analyzing and presenting the data.

Scheduler

Scheduler and Calendar Objects can be configured and parameterized via a common browser (integrated Web server). Centralized management of schedulers on one or multiple distributed L-DALI Controllers is done with the LWEB-820 Master Schedule Configurator.

Alarming

The L-DALI Controllers support BACnet alarming functionality via BACnet Notification Class Objects. Alarms are also available on the LWEB-800 visualization or via the integrated Web server. Alarm logs are stored on the device and synchronized to an available LWEB-801 Server. Alarm logs can be read via FTP as CSV file from the L-DALI Controller.
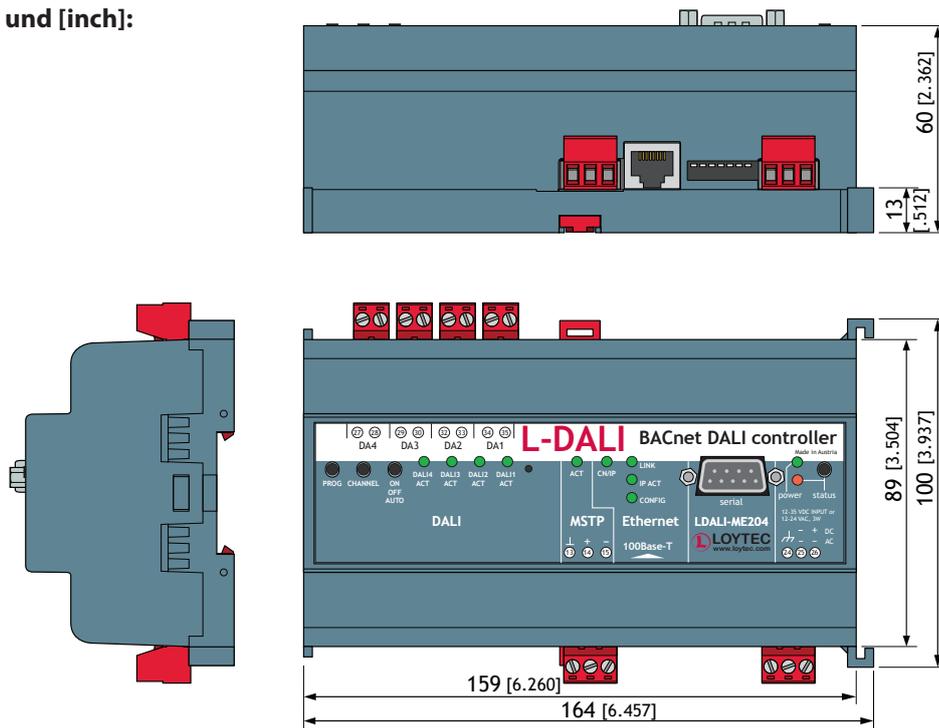
DALI Power Supply

An external DALI power supply is needed to power up the DALI network. Power supplies are available for two or up to four channel DALI networks.
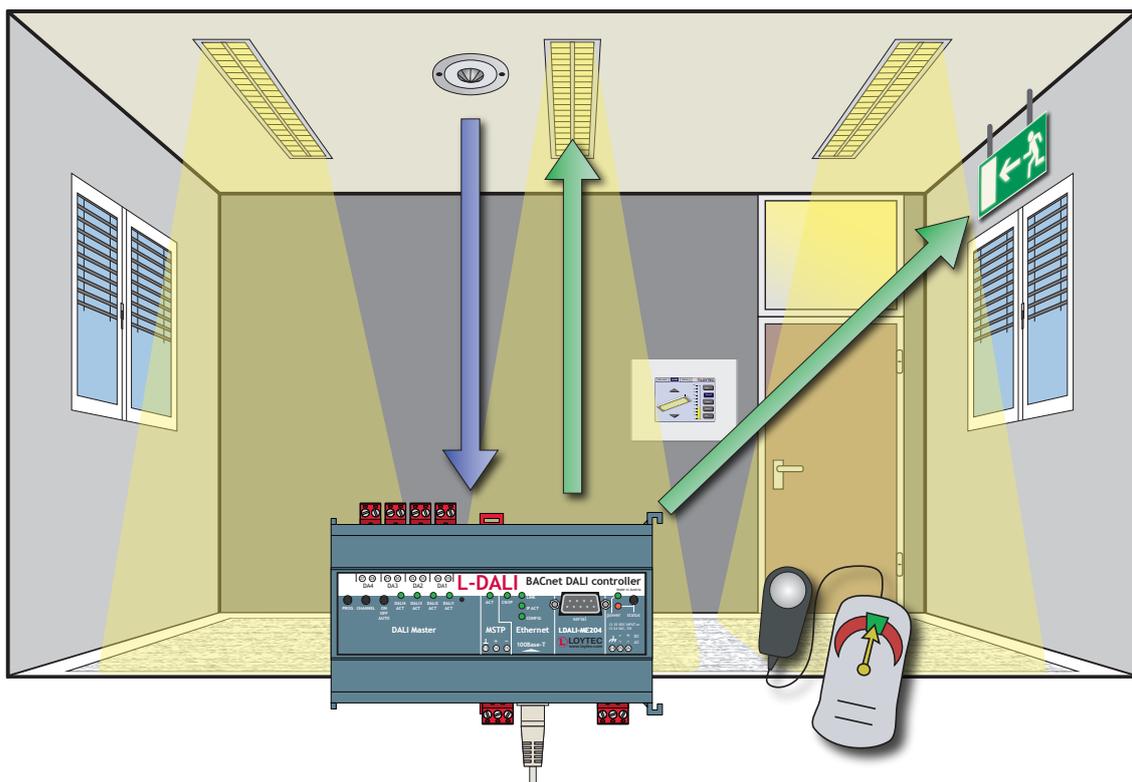
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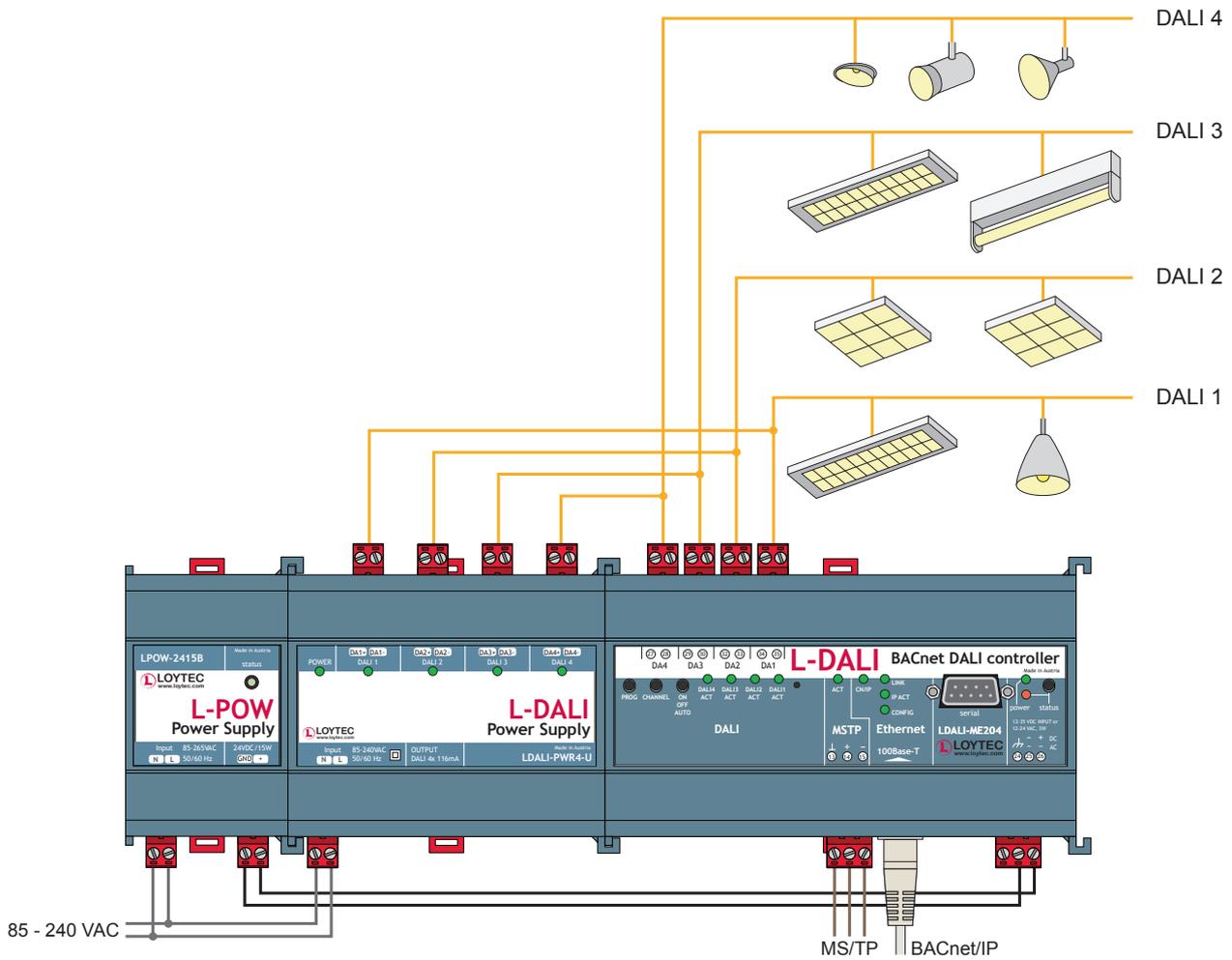
Abmessungen in mm und [inch]:

Features:

- DALI Light Controller featuring 4 DALI channels
- Gateway funktions for DALI integration in BACnet networks
- Supports BACnet/IP (Ethernet) or BACnet MS/TP
- Supports up to 64 DALI devices and 16 groups per DALI channel
- Integrated Constant Light Control
- Integrated Web server for the device configuration and for monitoring of data points
- Test and assignment of the DALI devices via the Web interface

- Replacement of DALI devices without additional software tools
- DALI commissioning with unique ballast ID (GTIN/SNR)
- DALI interface IEC 62386 (Device Type Part 201-208)
- Compliant with ANSI/ASHRAE - 135-2008 and ISO 16484-5 standard
- Integrated DALI protocol analyzer
- Supports periodic testing of emergency lights
- Supports lamp burn-in mode

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Specifications	
Dimensions (mm)	159 x 100 x 60 (L x W x H)
Power supply	12-35 VDC / 12-24 VAC ±10 %, typ. 2 W
Interfaces	1 x Ethernet (100Base-T) BACnet/IP, HTTP, FTP 1 x BACnet MS/TP
Type	LDALI-ME204
DALI-Kanal	4
Tools	Configuration via Web interface with browser

Ressource limits			
DALI devices per DALI channel	64	Scene Control	16 groups per DALI channel
DALI groups per DALI channel	16	Broadcast Scene	1 per DALI channel

Order number	Configuration
LDALI-ME204	BACnet DALI Controller for 4 DALI channels
LDALI-PWR2-U	DALI Power Supply, 85-240 V, 50/60 Hz, Output: 2 x 16 VDC, 116 mA (DALI bus)
LDALI-PWR4-U	DALI Power Supply, 85-240 V, 50/60 Hz, Output: 4 x 16 VDC, 116 mA (DALI bus)
LPOW-2415B	Power Supply with external power connector 24 VDC, 15 W