

Image



Product description

The LON DALI-Controller DAL16 is designed for connection to the LON universal controller sistema MC16 (order no.: 121 000 C).

The LON DALI-Controller DAL16 is designed for connection to up to 64 DALI-electronic ballasts in max. 16 groups. The DALI-devices can be supplied via the internal power supply.

The controller can be tested and controlled via front-panel switches without prior software configuration. This feature makes it possible to switch on or off all devices manually already after having connected them.

All set-up and maintenance functions (e.g. group definition, test or replacement) can be done via the build-in serial interface or via the LON-network by a LNS-Plug-in. A software tool for Windows-PCs and Windows Mobile-PDAs is available for this purpose.

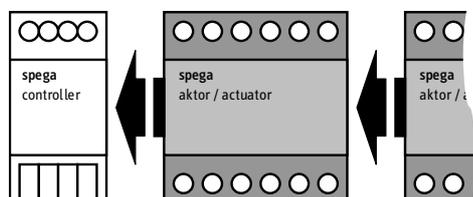
The software application enables an adjustable operation in case of power loss and recurrence. Each lamp group has its own scene memory. In the optional selectable stairway light functionality is an integrated turn-off pre-warning implemented. Due to a priority interpretation central commands can override local commands.

A failure of illuminants or DALI-devices is detected by the software and is signalled via the LON-network.

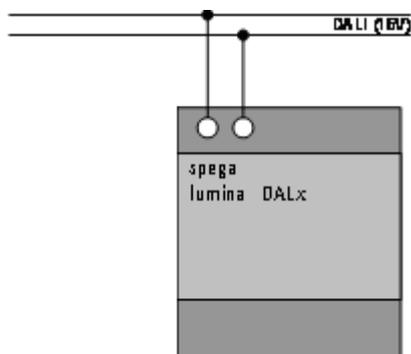
A comfortable LNS-Plug-in and a commissioning software tool (using the serial interface) for Windows 2000/XP/Vista or Mobile 5.0 are available.

Terminal diagram

Connection to controller



DALI-connection



spega Order Information

Order number	Description
121 166 C	lumina DAL16 LON DALI-controller for 16 groups
121 000 C	Sistema MC16 Controller zum Betrieb des Aktors am LON-Netzwerk, max. 16 Kanäle

Assembly instructions

- 1 Install on a DIN EN50022 rail, with 4 modular spacings
- 2 For operation with an external DALI-power supply, the internal supply must be disabled by the commissioning tool.



Electrical devices must be assembled and installed by trained personnel only.



Please observe local standards, guidelines and regulations when planning and installing electrical devices.



The device specifications given in this document must be adhered to.



The system installer has to take care that the correct application and the associated parameters are corresponding with the wiring and the intended use of the device.

Operation

Commissioning:

Use the proper LNS-plug-in or the commissioning software tool for PCs or PDAs (available on the e.control-CD or download-able via the internet under <http://www.spega.de>).

All DALI devices can be turned on or off manually by using the switch „MAN“ - even if the DALI-devices are not yet configured.

Replacement of failed DALI-devices:

Replaced DALI-devices can be configured via the „CONF“-switch. The exact procedure is described in the manual.

Technical data

Power supply	
Operating voltage	24V DC (15...27V DC) via spega controller
Current input	max. 110 mA (internal DALI supply) max. 20 mA (external DALI supply)
Inputs/Outputs	
Actuator interface	Sistema MC16 universal LON controller interface
DALI-bus interface	
DALI-bus internal power supply	16 V DC (no SELV) max. 130 mA (internal DALI supply)
Number of members	max. 64 DALI-devices (< 2mA), in max. 16 groups
Connections	
DALI-terminal connector	2 x 1 pole screw type terminal for Ø 4mm ²
Configuration interface	DSUB-9 female (RS232)
Control elements	
Service pushbuttons	Operation via pushbutton on front-panel
MAN-switch	Manual on/off control of all connected DALI-devices (even not configured DALI-devices)
CONF-switch	Replaces failed DALI-devices without software
Display elements	
Service-LED	ON: Device without application; BLINKING: Device not configured
MAN-LED	Refer to manual
CONF-LED	Refer to manual
Housing	
Type of protection	IP 20 (DIN 40050 / IEC 144)
Dimensions	85 (45) x 70 x 60 (H x B x T) - corresponds to 6 modular spacings
Type/location of installation	Standard distribution, 35mm mounting rail
Ambient conditions	
Operating temperature	-5°C ... +45°C
Transportation temperature	-25°C ... +55°C
Rel. humidity	5% ...93% (without condensation)
Max. altitude for operation	Up to 2000 m above sea level
Safety	
Electrical isolation	SELV (EN 60 950)
Class of protection	I (IEC 536 / VDE 106 part 1)
Standards/guidelines	
Device safety	acc. to EN 50 090-2-2
Immunity	acc. to EN 50 090-2-2
Certification	CE