



DATA SHEET
DCI 4 DALI
Dupline interface to the DALI bus
 Article number 09501243



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Function

Lighting control devices, depending on the design, allow the control of different lighting equipment. The main focus is the capability to smoothly adjust the lighting in order to create lighting scenes. The control devices have different power and available input signals in addition to the type of controllable lighting. The standardised DALI bus (digital addressable lighting interface) allows the control of lighting control gear (electronic ballasts, power dimmers, LEDs, etc.) The DALI bus supports the use of maximum 64 devices, which can be combined into up to 16 lighting groups. Individually adjusted brightness values of all groups can be saved and recalled in up to 16 lighting scenes, where parameters such as minimum and maximum values, dimming and fade speeds can be adjusted as well. Doepke DALI gateways are control devices for maximum 64 control gear elements on one DALI bus. They support basic functions such as searching for devices, creating lighting groups and lighting scenes. They also supply the DALI bus with voltage so that an external power supply is not required. The available parameters of the devices (minimum/maximum dimming values, dimming and fade speeds) can be adjusted via the gateway. The equipment is operated very easily via a two-line LC display with complete menu guidance. It can also be operated manually to control all devices, groups and lighting scenes so that external wiring configurations are not required for commissioning. Configurations are saved permanently, providing all functions even after a voltage drop. The DCI 4 DALI supports the linking of all possible 16 lighting groups and lighting scenes with the addresses of the Dupline bus. The direct connection via central-ON and central-OFF command is also possible via Dupline as well as through the inputs on the gateway. Thanks to the configuration options of the Dupline bus, the lighting scenes can also be implemented across gateways, so that even large rooms with more than 64 control gear elements can be controlled with just the touch of a button.

Features

interface for a DALI bus with up to 64 devices, 16 lighting groups and 16 lighting scenes, configuration of DALI devices (dimming speed etc.), integrated voltage supply for the DALI bus, short-circuit and overload detection on the DALI bus, easy, user-friendly configuration via two-line display with 16 characters each line, manual control option via the display, compact design with just 4 module width, free addressing of all lighting groups, lighting scenes and central commands, two separate inputs 24 V DC for central-OFF and central-ON, all responses can be visualised on Dupline or displays, lighting groups and lighting scenes can be configured across gateways, configurable behaviour when Dupline or DALI bus fails and power supply is restored

Mounting

quick fastening to mounting rail, any installation position

Applications

The DALI bus allows for the implementation of mainly room-related applications, such as lighting control in conference and multi-purpose halls, lighting scenes in dining areas, individual lighting in meeting and seminar rooms and accent lighting in sales showrooms. It is also excellently suited to control RGB LEDs for effect lighting.

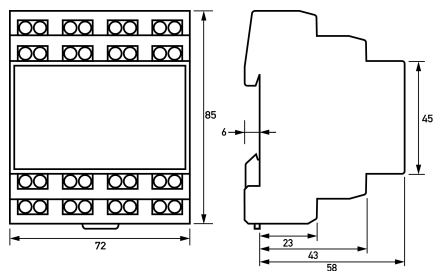
In connection with the Dupline bus system, which allows for large cable lengths, halls, buildings and large building complexes can be equipped with DALI gateways for sophisticated lighting applications. The many different Dupline components also allow the gateways to be integrated into convenient controls based on time and outdoor light, for example.

Technical Data

Technical Data	DCI 4 DALI
Series	DCI 4DALI
Manual operating mode possible	true
design	Dupline
max. IF Bus system output channel	16
max. IF Bus system input channel	34
current consumption bus	900 µA (800 µA ... 1000 µA)

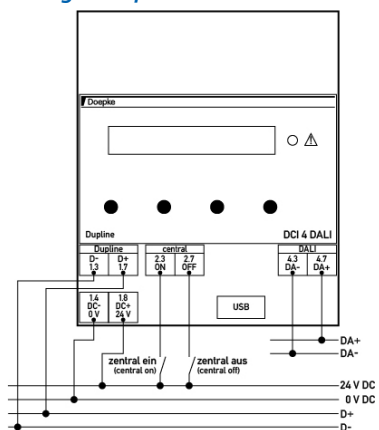
Technical Data	DCI 4 DALI
design	DALI-Master
Rated voltage (DC)	16.5 V (11.5 V ... 17 V)
max. rated current	0.2 A
short-circuit detection	true
current value of short-circuit detection	230 mA
max. Number of participants	64
max. Number of lighting groups	16
max. Number of lighting scenes	16
Operating voltage (DC)	24 V (21.5 V ... 26.5 V)
max. Ripple voltage	0.1 V
Current consumption (DC)	0.026 A (0.024 A ... 0.031 A)
	Display menügeführte Bedienung
Type	LC display (alphanumeric)
Dimensions	W 43.9 mm · H 10 mm
number of lines	2
Characters per line	16
	Display Fault
Type	LED (red)
	Semiconductor input
number	2
Rated voltage (DC)	24 V (21.5 V ... 26.5 V)
Rated current	4.6 mA (4 mA ... 5.1 mA)
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 45 °C
Permissible humidity	max. 85 %
Housing type	Distributor housing
Mounting type	Mounting rail
Housing material	Polycarbonate (PC)
Protection class	IP20
Width	72 mm
Height	85 mm
Depth	65 mm
Installation depth	58 mm
Width (modules)	4
Design requirements/Standards	EN 60669-2-1, EN 50428, EN 50491-3, EN 50491-4-1, EN 50491-5-1, EN 50491-5-2, EN 60929, EN 62386-101, EN 62386-103

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram