

DALI Master

Data Sheet

Description

The DALI Master module is a DALI interface module for the AmsCPU and AmsCPU-IO for controlling luminaries individually. It combines a DALI interface and DALI power supply. The module is fully IEC 62386 compliant to control and monitor DALI compliant lamps from the control cabinet using a DALI control line.

Functionality

Topic	Comments
Communication	RS232 two-way communication with AmsCPU and AmsCPU-IO
Autodiscovery	The module is automatically discovered by the AmsCPU module. In case a module is disconnected from the AmsCPU module, this is reported to the server application and the module is listed as missing. If the module is reconnected to the AmsCPU module or another AmsCPU module, it will be rediscovered by the system.
Power LED	Green: fault-free operation, off: device or power failure
Status LED	Green on: fault-free operation, green flashing every 0.5s: test mode: manually repeated, orange flashing every 0.5s: test mode: automatically repeated, off: device or power failure, red: deficiency at DALI/DSI output

Connections

I/O	Comments
Supply Voltage	110-240V (Permitted: 110-260V) 50/60 Hz
RS-232	Interface to Amplex AmsCPU/AmsCPU-IO via Amplex DALI Data Cable
Max. output current, DALI	240 mA
Output voltage, DALI	16V



Technical Specifications

Operational specifications

Storage temp.	-20°C to +60°C
Operating temp.	-10°C to +50°C
Max humidity	90% (non-condensing)
IP grade	IP20
Input voltage	110 - 230 V
Power consumption	1-6 W

Standards and approvals

EN 55022, EN 60950-1, EN 61000-3-2,
EN 61000-3-3, EN 61000-6-2, EN 61547



DALI Master



Installation Guide

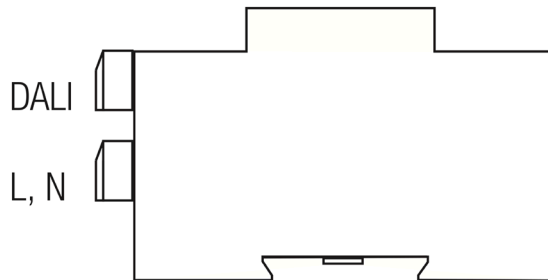
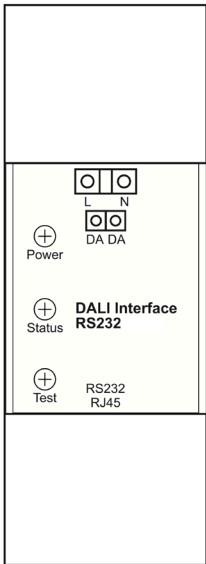
The DALI Master module is connected to the AmsCPU/AmsCPU-IO RS232 inputs using the Amplex DALI Data Cable. The DALI Data Cable is connected to the DALI Master using the RJ45 connector.

AmsCPU/AmsCPU-IO RS-232 Terminals

Amplex DALI Data Cable

AmsCPU/AmsCPU-IO RS-232 Terminals	Amplex DALI Data Cable
1 (Not used)	
2 (RxD)	Blue/white
3 (TxD)	Green
4 (DTR)	Green/white
5 (Ground)	Blue
6 (Not used)	
7 (RTS)	Brown
8 (Not used)	
9 (Not used)	

Drawing

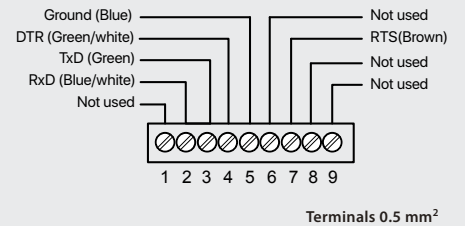


Physical Specifications

Weight	90 g
Housing	PC, halogen-free polycarbonate, non-flammable
DALI connector	0.75 - 2.5 mm ² (AWG 26-20)
Power connector	0.75 -2.5 mm ² (AWG 26-16)
Mounting	DIN-rail (EN50022) 35 mm
Dimensions L x W x H	91 x 35 x 59 mm

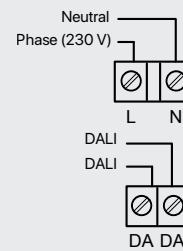
I/O Schematic

AmsCPU/AmsCPU-IO RS-232 Connections



Terminals 0.5 mm²

DALI Module Connections



Ordering Information

Product	Order number
DALI Master	250-60-000
DALI Data Cable	250-60-001

All specifications are subject to changes

DALI Master/2019-04-09/v0001

amplex

Bødker Balles Gård 24-26
8000 Aarhus C
Denmark
Phone +45 7199 2525
Email info@amplex.dk
www.amplex.dk