


LIGHTLAND

LIGHTLAND
DMX512 Signal
Converter



LIGHTLAND DMX512 Signal Converter Instruction Manual

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LIGHTLAND DMX512 Signal Converter



Product Information

Specifications

- **Input and Output:** DALI or DMX512
- **Input voltage:** 12-48VDC
- **Input current:** 40mA
- **Standby power:** 0.5W
- **Input signal:** DALI or DMX512
- **Output signal:** DMX512 or DALI

Mechanical Structures and Installations

- Powerin+ Powerin-
- DMXsignal input+ DMXsignal inputGND
- Two groups of DALI signal input DALI bus no need distinguish plus-minus polarity
- DALI signal indicator

Package Information

- **Package Size:** L120 x W78 x H55mm
- **Gross weight:** 0.164kg

Environment

- **Operation temperature:** -20°C to +55°C
- **Case temperature (Max.):** +65°C
- **IP rating:** IP20

Safety and Compliance

- **Warranty:** 5 years
- **Protection:** Reverse Polarity
- **Certification:** CE, EMC, LVD, DALI-2

Product Usage Instructions

- **DALI to DMX512 Mode Wiring**

DALI Bus Power Supply DALI Master Power Supply 12-48VDC Constant Voltage

- **DMX512 to DALI Mode Wiring**

DALI Dimmer DALI Bus Power Supply Power Supply 12-48VDC Constant Voltage

Key Operations

Long press the M button for 2 seconds to enter the system parameter setting interface. The digital tube blinks, preparing to set the work mode, channel number, DALI rst address, and DMX512 rst address. Short press the M button to switch between the four setting items.

Frequently Asked Questions (FAQ)

- **Q: What does the DALI signal indicator status mean?**

A: The DALI signal indicator is always on. When the signal converter receives a DALI signal, the indicator flashes.

- **Q: What does the DMX signal indicator status mean?**

A: The DMX signal indicator is always off. When the signal converter sends a DMX signal, the indicator flashes.

DMC

DALI / DMX512 Signal Converter

- DALI/ DMX5 12 signal converter, convert DALI signal to DMX5 12 signal to realize DALI master control of DMX devices. or convert DMX5 12 signal to DALI signal to realize DMX master control of DALI devices. • 3-button operation with digital display.
- Set the work mode, channel number, DALI first address, and DMX5 1 2 first address by buttons.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386 and in compliance with DALI products from other international incorporation.
- Compliant with DMX5 12 standard protocol.

Technical Parameters

Input and Output

- Input voltage 12-48VDC
- Input current <40mA
- Standby power <0.5W
- Input signal DALI or DMX512

- Output signal DMX512 or DALI

Environment

- Operation temperature Ta: -20 OC ~ +55 OC
- Case temperature (Max.) Ta: +65OC
- IP rating IP20

Warranty and Protection

- Warranty 5 years
- Protection Reverse Polarity

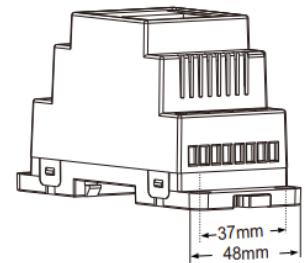
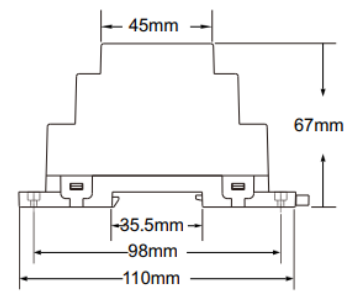
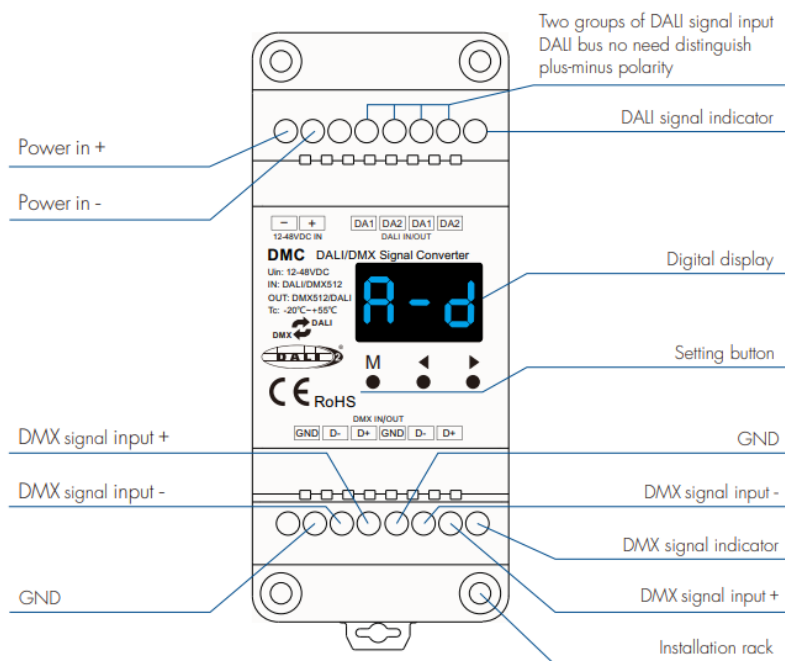
Safety and EMC

EMC standard (EMC)	EN IEC 55015:2019+A11:2020 EN 61547:2009 EN IEC 61000-3-2:2019+A11:2021 EN 61000-3-3:2013+A11:2019
Safety standard(LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Certification	CE,EMC,LVD, DALI-2

Package

- Size L120x W78 x H55mm
- Gross weight 0.164kg

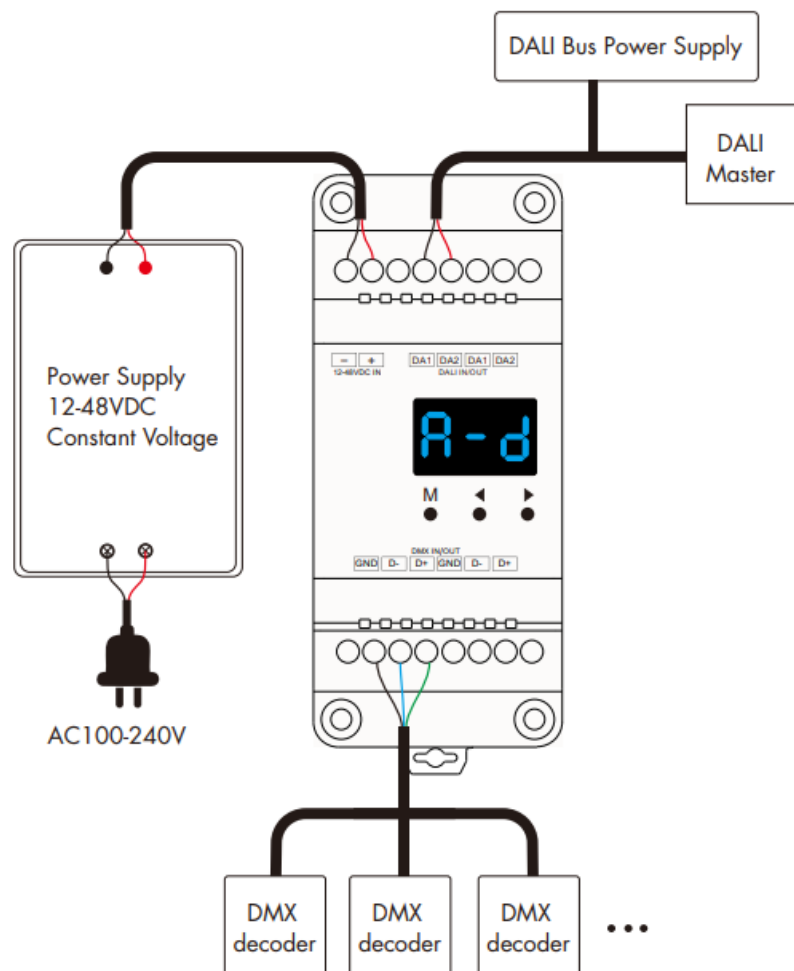
Mechanical Structures and Installations



DIN Rail Mounting Size:
TS-35/7.5 or TS-35/15

Wiring Diagram

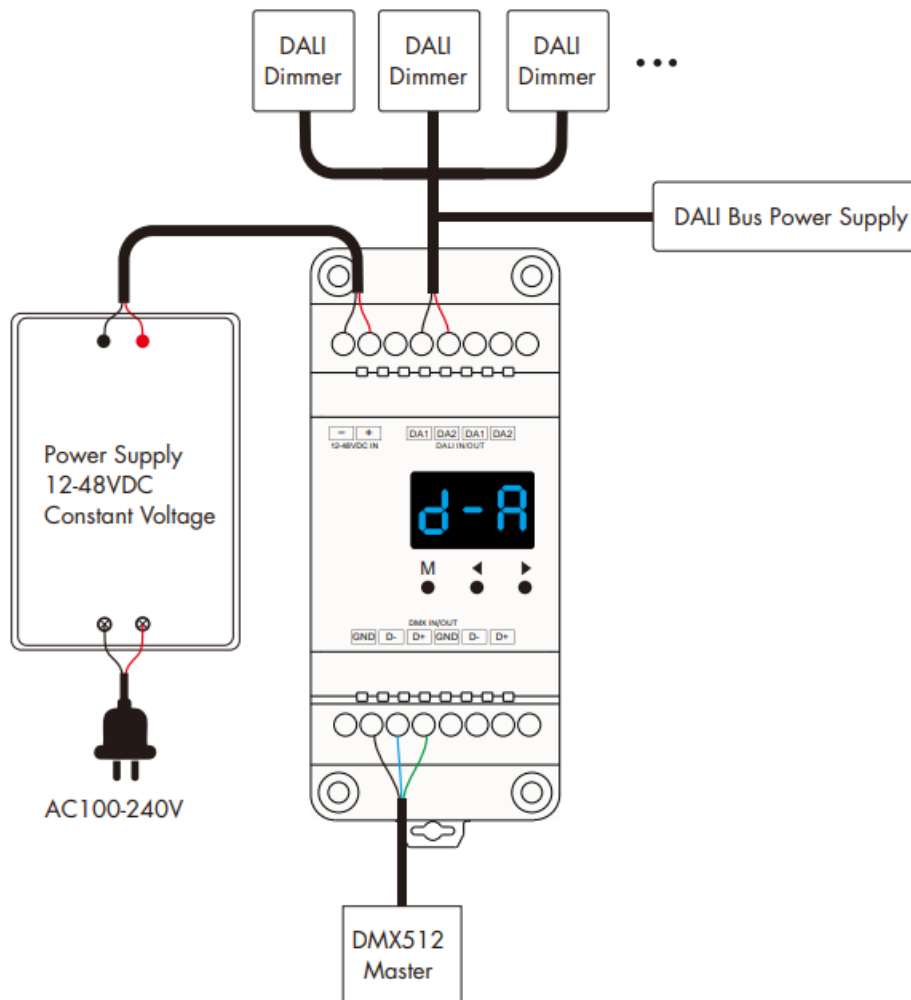
DALI to DMX512 mode wiring



Note

- One or more DMX512 decoders can be connected to the DMX512 signal output ports.
- Indicator status:
 - DALI signal indicator is always on. When the signal converter receives DALI signal, DALI signal indicator flashes. DMX signal indicator is always off. When the signal converter sends DMX signal, DMX signal indicator flashes.

DMX512 to DALI mode wiring



Note

- One or more DALI dimmers can be connected to the DALI signal output ports.
- Indicator status:
 - DMX signal indicator is always on. When the signal converter receives DMX signal, DMX signal indicator flashes. DALI signal indicator is always off. When the signal converter sends DALI signal, DALI signal indicator flashes.

Key operation

- Long press the M button for 2s, enter the system parameter setting interface, the digital tube blinks. Prepare to set the work mode, channel number, DALI first address, DMX5 1 2 first address. Short press M button to switch

four setting items.

- Work mode: Short press ◀or▶ button to switch DALI to DMX512 (“A-d”), DMX512 to DALI (“d-A”) two work modes.
- Channel number: Short press ◀or▶ button to set the channel number, setting range is 01-64, display “Cxx”.
- DALI first address: Short press ◀or▶ button to set DALI first address, setting range is 00-63, display “Axx”.
- DMX5 12 first address: Short press ◀or▶ button to set DMX5 12 first address, setting range is 001-512, display “xxx”.
- Default display of digital tube: “A-d” in DALI to DMX5 12 mode; “d-A” in DMX512 to DALI mode.

DALI to DMX512 mode

According to channel number and the DALI first address, the DALI address dimming data is sequentially converted to the dimming data of the DMX channel.(In the DALI to DMX mode, the DMX first address is fixed to 001.)

Example:

If the channel number is 30 and the DALI first address is A00, the conversion relationship between DALI dimming data and DMX512 channel dimming data is shown in the table below.

DALI address	DMX address
A00	001
A01	002
A02	003
.....
A28	029
A29	030
A30-A63	Invalid, not converted

DMX512 to DALI mode

According to the channel number, DMX512 first address, and DALI first address, the DMX512 dimming data is sequentially converted to DALI dimming data.

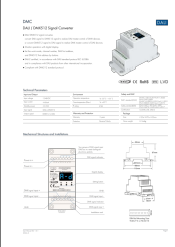
Example:

If the channel number is 30, the DMX512 first address is 100, and the DALI first address is A10. Then the conversion relationship between DMX512 channel dimming data and DALI dimming data is shown in the table below.

DMX address	DALI address
000-099	Invalid, not converted
100	A10
101	A11
.....
129	A39
130	A40
131-512	Invalid, not converted

User Manual Ver 1.0.1

Documents / Resources

	LIGHTLAND DMX512 Signal Converter [pdf] Instruction Manual DMX512 Signal Converter, DMX512, Signal Converter, Converter
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References

- [User Manual](#)

[Manuals+.](#) [Privacy Policy](#)

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