SuperLightingLED DALI/DMX 4 Channel Switch Owner's Manual

Contents

SuperLightingLED

SuperLightingLED DALI/DMX 4-Channel Switch

Product Specifications

- **Product Name**: DH4 DALI/DMX 4-Channel Switch
- **Channels:** 4 DALI address, 4-channel 16A dry contact mains rated relay switch output
- **Work Modes:** DALI mode, DMX mode
- **Input Voltage:** 100-240VAC
- **Input Signal:** DALI+DMX512
- **Relay Contacts:** High inrush (120 A at 20ms), single-pole, single-throw (SPST) relay
- **Max Relay Load Current:**
  - 16A resistive load (incandescent lamp)
  - 8A Capacitive load (LED dimming driver)
  - 8A inductive load (fluorescent lamp)
- **Environment:** Ta: -20°C ~ +50°C, Tc: +60°C, IP20
- **Warranty:** 5 years

DALI/DMX 4-Channel Switch

- 4 DALI address, 4 channel 16A dry contact mains rated relay switch output.
- OLED display screen, via button setting two work modes: DALI mode, DMX mode.
- DALI address can be manually assigned and shown on the digital display or automatically assigned by the DALI master.
- By DALI standard protocol IEC 62386-101,102, 208
  and in compliance with DALI products from other international incorporations.
- Comply with the DMX512 standard protocols.
- RDM function can realize intercommunication between the MX master and decoder.
- Supports manual switching of individual channels.
- High-inrush specification relays (single pole, normally open).

- Zero cross-switching function.
- Can operate as:
  - 4 individual channels (4 × 1)
  - 2 sets of 2 channels (2 × 2)
  - 1 set of 4 channels (1 × 4)

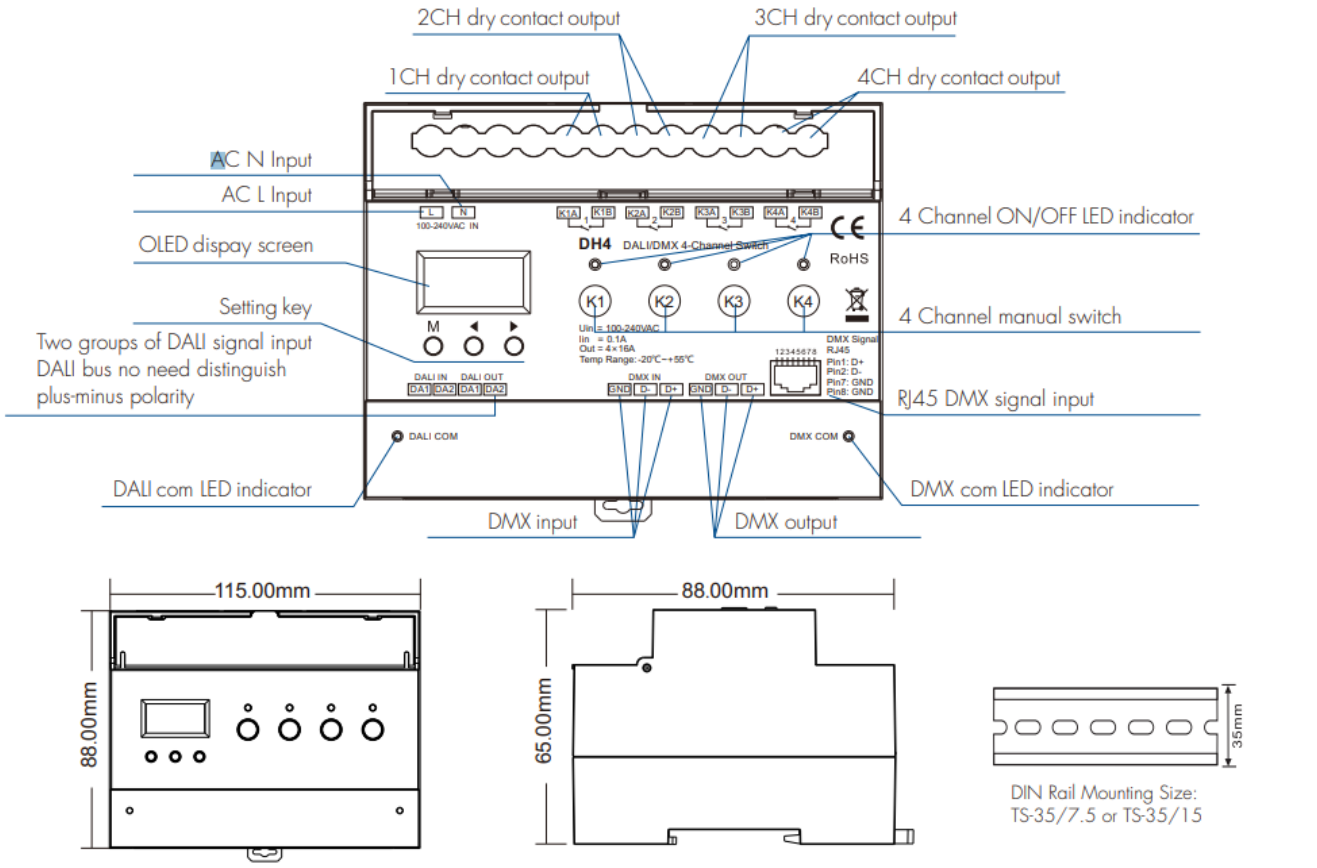
Technical Parameters

Input t and Output	
Input voltage	100-240VAC
Input current	0.1A
Input signal	DALI+DMX512
No-load standby power consumption	0.5W@100V, 1.5W@240V
Full load loss power	4W@100V, 4.5W@240V
Relay contacts	High inrush (120 A at 20ms), single-pole, single-throw (SPST) relay.
Max relay load current	16A resistive load (incandescent lamp) 8A Capacitive load (LED dimming driver) 8A inductive load (fluorescent lamp)

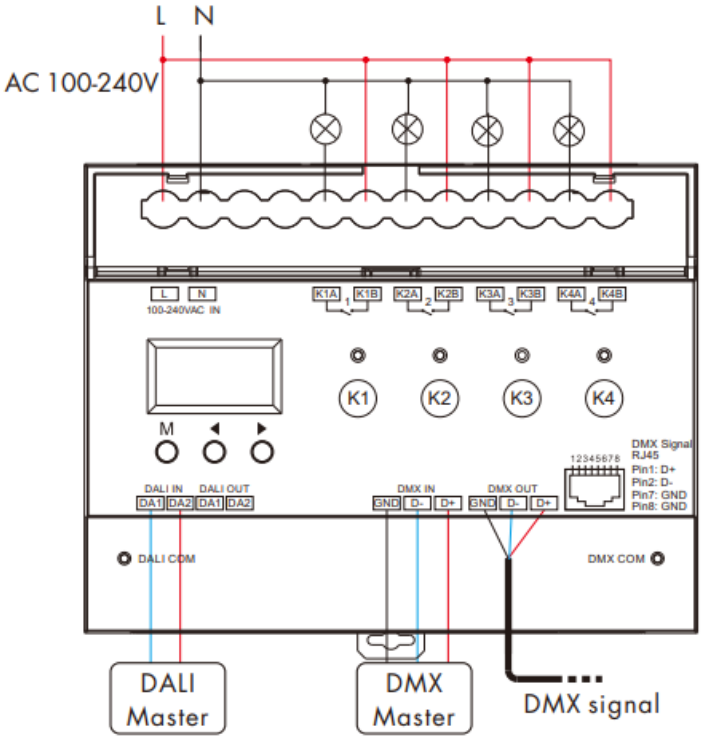
Safety and EMC	
EMC standard (EMC)	ETSI EN 301 489-1 V2.2.3 ETSI EN 301 489-17 V3.2.4
Safety standard(LVD)	EN 62368-1:2020+A11:2020
Certification	CE,EMC,LVD
Warranty and Protection	
Warranty	5 years

Environment	
Operation temperature	Ta: -20 °C ~ +50°C
Case temperature (Max.)	Tc: +60°C
IP rating	IP20
Package	
Size	W118 x L102 x H71mm
Gross weight	0.345kg

Mechanical Structures and Installations

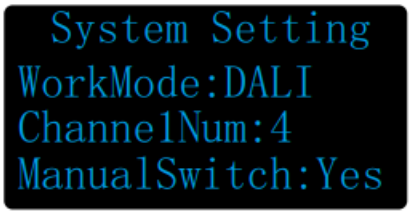


Wiring Diagram



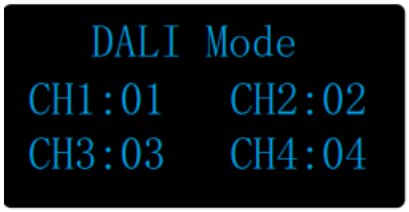
Work Mode

System setting



- Long press the M button for 2s, enter the system setting state and prepare to set the working mode, channel number, and manual switch. Short press the M button to switch three setting items.
- Working mode: Short press the ◀ or ▶ button, and switch between DALI and DMX working mode.
- Channel number: Short press ◀ or ▶ button, switch the number of 4/2/1 channels, i. e. 4 independent channels (4×1), 2 groups of 2 channels (2×2) or 1 group of 4 channels (1×4).
- Manual switch enable: Short press ◀ or ▶ button, setting to allow (Yes) or disallow (No) the manual switching function, i. e. setting whether the four-channel manual switching buttons are active or not.
- Long press M button for 2s, or timeout 15s, quit system setting.

DALI mode



In DALI mode, the DALI address can be set by buttons or DALI master control: (1) Set DALI Address via buttons.

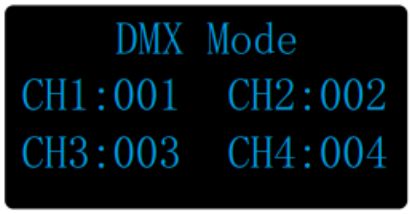
- Short press the M button, and prepare to set the start DALI address. The four channels can be addressed separately, and the address setting of the four channels can be switched sequentially by short pressing the M

button.

- Short press ◀ or ▶ button, change the address value of the current channel (00-63-FF), FF means unassigned DALI address. Long press for fast adjustment.
- Long press the M button for 2s, or timeout 15s, and quit the DALI address setting.

(2) DALI address assigned by DALI masters
DALI address can also be assigned by the DALI Master controller automatically. Please refer to user manuals of compatible DALI Masters for specific operations.

DMX mode



In DMX mode, the DMX address can be set by buttons or DMX RDM master:

- Short press the M button, and prepare to set the start DMX address.
  Only the address of the First channel needs to be set, and the addresses of the other channels will be automatically added 1 in sequence.
- Short press the ◀ or ▶ button, change the DMX address value (001-512), and long press for fast adjustment.
- Long press Mthe button for 2s, or timeout 15s, and uit Dthe MX address setting.
- DMX control:
  - When the DMX data value is <50, the relay output is off.
  - When the DMX data value is >200, the relay output is on.
  - When the DMX data value is between 50 and 200, keep the previous on/off status.

Restore factory settings

- Long press the ◀ and ▶ buttons at the same time for 2 seconds to restore factory settings.
- Factory default parameter: DALI mode, number of channels is 4, manual switch enabled.

Overheat protection

- 110°C triggers temperature protection and shuts off the relay output.

- Normal switching control is resumed at 90°C.

Frequently Asked Questions

- **Q: Can the DH4 switch between DALI and DMX working modes?**
  - A: Yes, you can switch between DALI and DMX modes by short pressing the appropriate button.
- **Q: What is the warranty period for the DH4 switch?**
  - A: The DH4 comes with a 5-year warranty.

Documents / Resources

	SuperLightingLED DALI/DMX 4 Channel Switch [pdf] Owner's Manual DH4-100-to-240VAC-4-Channel-DMX-DALI-Relay-Unit-Switch, DH4, DALIDMX 4 Channel Switch, DALIDMX, 4 Channel Switch, Channel Switch, Switch

References

- User Manual

Manuals+, Privacy Policy

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