DH4

DALI Switch

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 mode: DALI mode, DMX mode.
- DALI address can be manually assigned and shown in digital display or automatically assigned by DALI master.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386-101,102, 208 and in compliance with DALI products from other international incorporation.
- Comply with the DMX512 standard protocols.
- RDM function can realize intercommunication between DMX 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 sets of 4 channels (1 × 4)

CE RoHS

4CH / dry contact output / 4 DALI address / DMX-RDM / OLED display / Din Rail

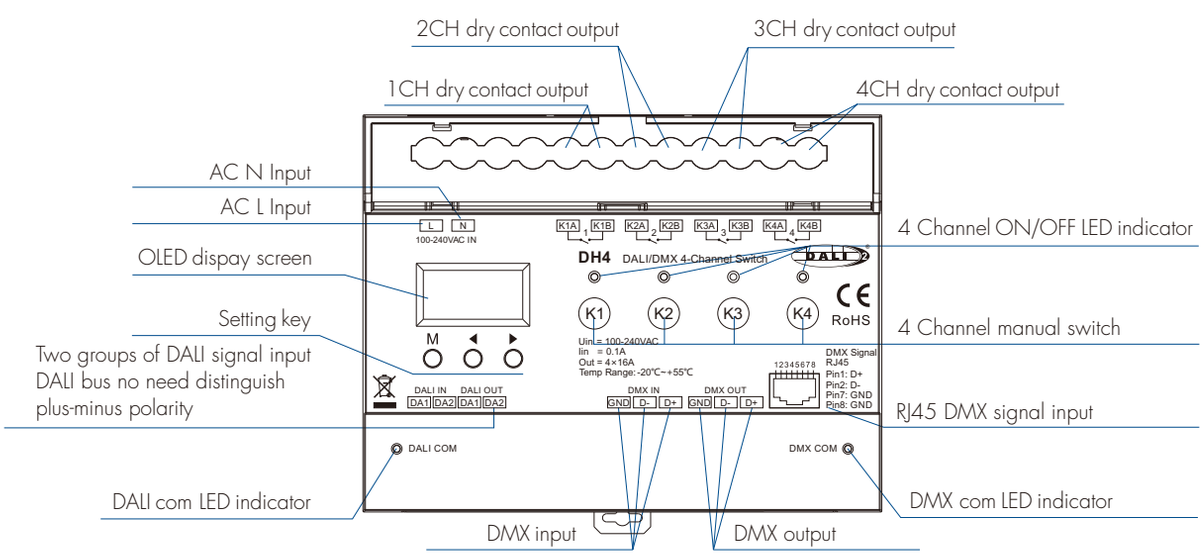
Technical Parameters

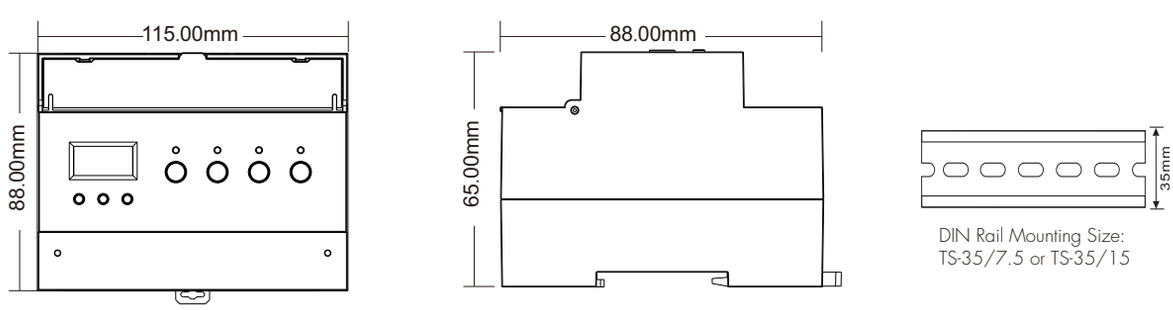
Input and Output	
Input voltage	100-240VAC
Input current	0.1A
Input signal	DALI+DMX512
No-load standby power consumption	0.5W@100V, 1.5W@240V
Full load loss power	4W@100V, 4.5W@240V
Relay contacts	High inrush (120 A at 20ms), single-pole, single-throw (SPST) relay.
Max relay load current	16A resistive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

Safety and EMC	
EMC standard	EN IEC 55015/EN IEC 61547
Safety standard	EN 61347-1/-2 EN 62493
Certification	CE DALI-2
Warranty	
Warranty	5 years

Environment	
Operation temperature	Ta: -20 °C ~ +50 °C
Case temperature (Max.)	Tc: +60 °C
IP rating	IP20
Package	
Size	L118 x W102 x H71mm
Gross weight	0.345kg

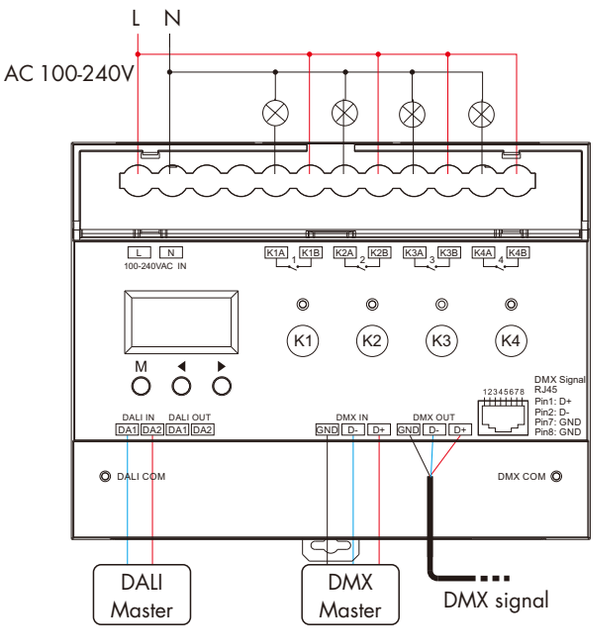
Mechanical Structures and Installations





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

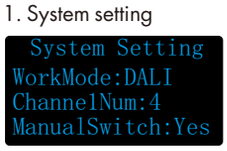
Wiring Diagram



Note: The maximum surge current of the AC output is120A, the sum of surge current of multiple resistivel load or inductive load (LED drivers)should not exceed its maximum value. Otherwise, the product will be overloaded and damaged.

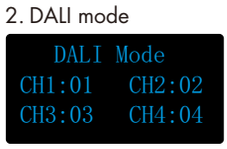
Work Mode

1. System setting



- Long press M button for 2s, enter system setting state, prepare to set the working mode, channel number and manual switch enable. Short press the M button to switch three setting items.
- Working mode: Short press ◀ or ▶ button, 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 (4x1), 2 groups of 2 channels (2x2) or 1 group of 4 channels (1x4).
- 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.

2. DALI mode

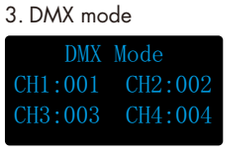


In DALI mode, the DALI address can be set by buttons or DALI master control:
(1) Set DALI Address via buttons

- Short press M button, prepare for 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 M button for 2s, or timeout 15s, quit DALI address setting.

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

3. DMX mode



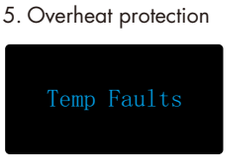
In DMX mode, the DMX address can be set by buttons or DMX RDM master:

- Short press M button, prepare for 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 ◀ or ▶ button, change the DMX address value (001-512), long press for fast adjustment.
- Long press M button for 2s, or timeout 15s, quit DMX address setting.
- DMX control: When DMX data value is <50, the relay output is off.
  When DMX data value is >200, the relay output is on.
  When DMX data value is between 50 and 200, keep the previous on/off status.

4. Restore factory settings

- Long press ◀ 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 enable.

5. Overheat protection



- 110°C triggers temperature protection and shuts off the relay output.
- Normal switching control is resumed at 90°C.