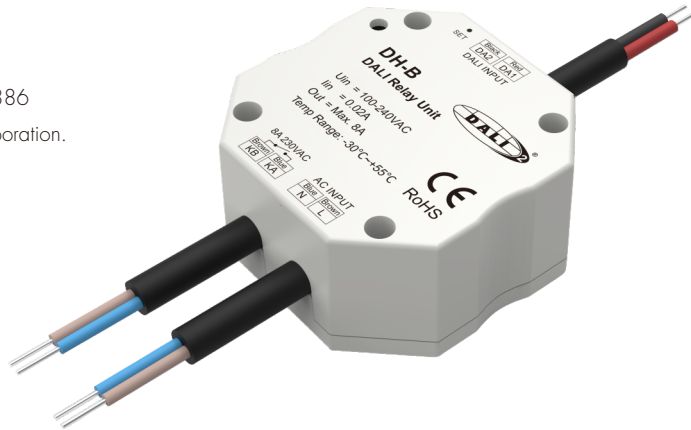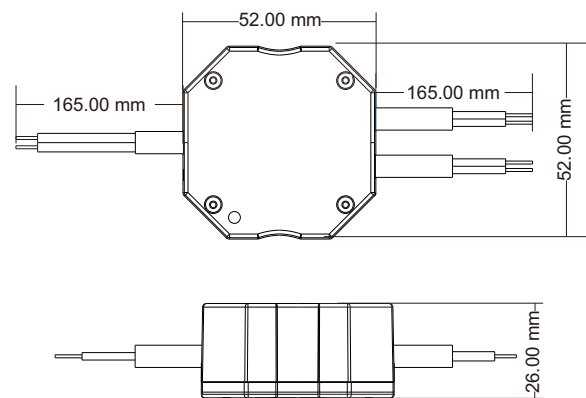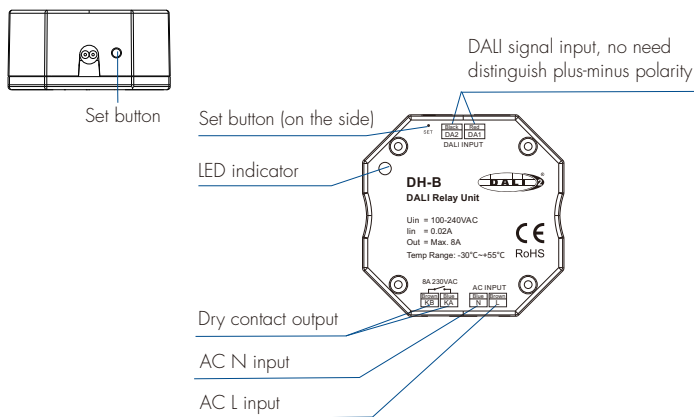# DH-B

DALI One Channel Relay Unit

DALI

- 1 DALI address, 1 channel 8A dry contact mains rated relay output.
- Powered by AC100-240V.
- DALI-2 certified, in accordance with DALI standard protocol IEC 62386 and in compliance with DALI products from other international incorporation.
- Compliant DALI device type 7.
- High-inrush specification relays (single pole, normally open).
- Connect with external push switch to achieve on/off function.
- Zero cross switching function.

DALI 2 CE RoHS emc LVD

Technical Parameters

Input and Output		Environment		Safety and EMC	
Input voltage	100-240VAC	Operation temperature	Ta: -30°C ~ +55°C	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
Input current	0.02A	Case temperature (Max.)	Tc: +60°C		
Relay contacts	single-pole, single-throw (SPST) relay.	IP rating	IP20	Safety standard(LVD)	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
		Package		Certification	CE,EMC,LVD
Max relay load current	8A resistive load (incandescent lamp) 6A Capacitive load (LED dimming driver) 4A inductive load (fluorescent lamp)	Size	L75 x W75 x H40mm	**Warranty**	
		Gross weight	0.981kg	Warranty	5 years

MechanicalStructuresandInstallations

Set button

Set button (on the side)

LED indicator

DALI signal input, no need distinguish plus-minus polarity

DH-B
DALI Relay Unit

Uin = 100-240VAC
Iin = 0.02A
Out = Max. 8A
Temp Range:-30°C~+55°C

Dry contact output

AC N input

AC L input

52.00 mm
165.00 mm
165.00 mm
52.00 mm
26.00 mm

Operation

1. DALI switch

DALI signal port connect with DALI Master controller.
DALI address can be assigned by DALI Master controller automatically.
Please refer to user manuals of compatible DALI Masters for specific operations.

2. Push switch

DALI signal port connect with push switch.
Short press: Turn on or off light.
Long press 10s: Synchronizes multiple relay switch connected to the same push switch to the on state.
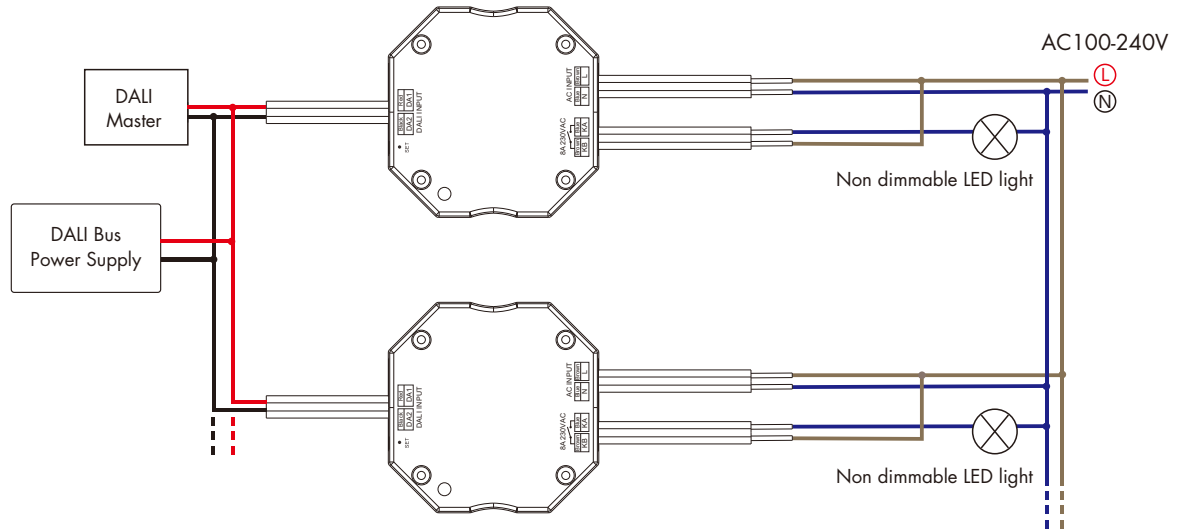
3. Set button

Short press: Turn on or off light.
Long press 10s: The relay switch is restored to its factory default state, i.e., the relay switch is on and the DALI address is not assigned.
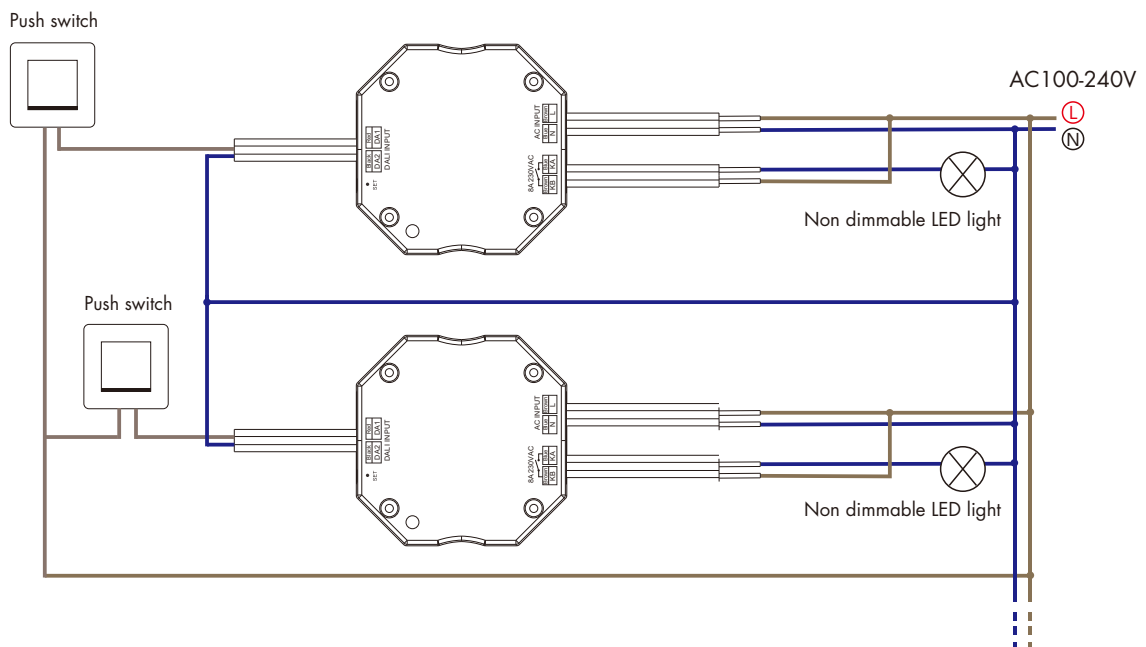
Wiring Diagram

⚠️ Caution:

1. Please carefully ensure all wire connections and polarities are correct and secure before applying power, otherwise this controller will be damaged.
2. DO NOT install with power applied to device.
3. DO NOT expose the device to moisture.

● DH-B connect with DALI master

● DH-B connect with AC push switch

LED indicator status:

When the relay switch is working normally, the LED indicator light is green.

When the internal temperature of the relay switch is too high (≥110℃), the LED indicator light is red,

after removing the fault, the LED indicator light return green.

When the relay switch receives DALI signal, the LED indicator light flashes once.

Note:

1. DALI interface and AC PUSH interface are compatible, DALI and AC PUSH can only be connected to one, not at the same time.
2. When connecting to the AC PUSH switch, note that the re wire (L) and zero wire (N) are connected to DA1 and DA2 respectively, and cannot be connected to DA1 or DA2 at the same time.
3. We recommend the number of relay switch connected to a push switch does not exceed 25 pieces, The maximum length of the wires from push to relay switch should be no more than 20 meters.