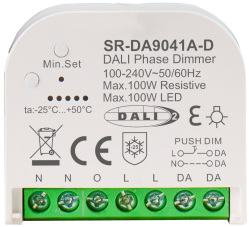
DALI Phase Dimmer with Push Dim

Important: *Read All Instructions Prior to Installation*

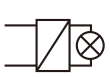
Features



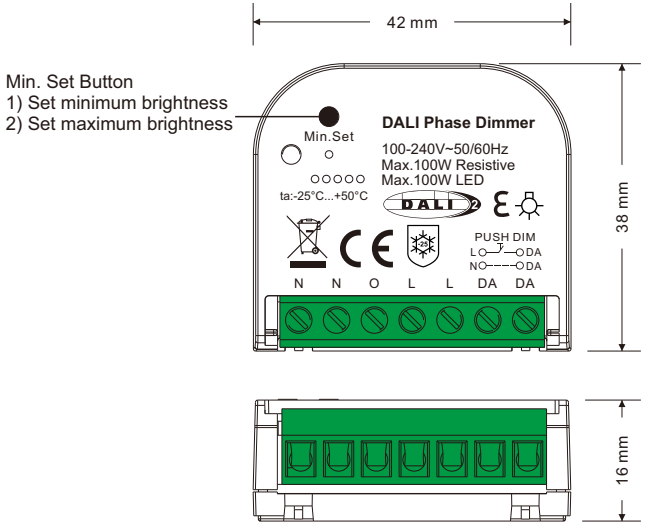
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2
- Built-in DALI-2 interface, DALI DT6 device
- Match all DALI systems in the market
- AC phase cut dimmer with both DALI and push switch control interface
- 100-240VAC wide input and output voltage,
- 1 DALI address to control 1 channel output, up to 100W
- Input and output with screw terminals, safe and reliable
- Trailing edge dimming, supports resistive loads and capacitive loads
- Minimum and maximum brightness setting function
- Single wire push switch input for push dim function
- Great compatibility with universal 8V-230V~ input push switches
- To dim and switch single color dimmable LED lamps, traditional incandescent and halogen lights
- Over temperature protection, overload protection, short circuit protection
- Mini size, easy to be installed into a standard size wall box
- Protection rating: IP20

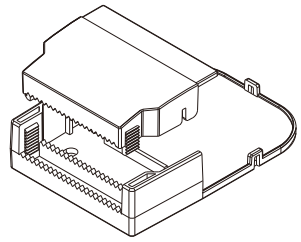
Product Data

Input Voltage	100-240VAC
Output Voltage	100-240VAC
Output Current	0.44A max
DALI Consumption	2mA max
Size(LxWxH)	42x38x16mm
Protections	Short Circuit Protection: Triggered when a short circuit occurs at the output. Overload Protection: Triggered when the resistive load >0.65 A (150 W). Overtemperature Protection: Triggered when the MOSFET temperature >120°C (internal NTC monitored). Protection Response: The output switches off immediately, and the LED indicator flashes slowly. Recovery: Remove the fault or wait until the MOSFET temperature falls below the threshold, then send a Recall Max command via the DALI bus.

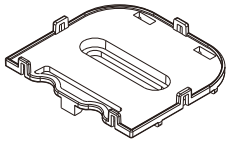
Compatible Load Types			
Load Symbol	Load Type	Maximum Load	Remarks
	Dimmable LED lamps	100W @ 230V 50W @ 120V	Due to variety of LED lamp designs, maximum number of LED lamps is further dependent on power factor result when connected to dimmer.
	Dimmable LED drivers	100W @ 230V 50W @ 120V	Maximum permitted number of drivers is 100W divided by driver nameplate power rating.
	Incandescent lighting, HV Halogen lamps	100W @ 230V 50W @ 120V	
	Low voltage halogen lighting with electronic transformers	100W @ 230V 50W @ 120V	

Function Introduction





Accessory 1: Wire clamp cover.
Need to purchase separately.



Accessory 2: din rail bracket.
Need to purchase separately.

Safety & Warnings

- DO NOT install with power applied to device.
- DO NOT expose the device to moisture.

Operation

Set DALI Address

A DALI address for the output channel is assigned automatically by the DALI Master. Refer to the user manual of the compatible DALI Master for detailed instructions.

Set Minimum and Maximum Brightness Levels

Note: By default, the minimum brightness is 15% and the maximum brightness is 88%. To set a minimum brightness below 15% or a maximum brightness above 88%, follow the procedure below.

Step 1: Press and hold the Min. Set button for about 5 seconds until the indicator flashes once per second, then release. The device enters Minimum and Maximum Brightness Setting mode.
Step 2 – Minimum Brightness: With the indicator flashing, the device is in Minimum Brightness Setting mode. Hold the Min. Set button to adjust the brightness, then double-click to save the setting.
Step 3 – Maximum Brightness: Short press the Min. Set button to enter Maximum Brightness Setting mode. Hold the button to adjust the brightness, then double-click to save the setting.

Restore Factory Default Minimum and Maximum Brightness Levels

Press and hold the Min. Set button for more than 10 seconds to reset the minimum and maximum brightness to factory default values. The indicator will flash rapidly to confirm.

Push Dim

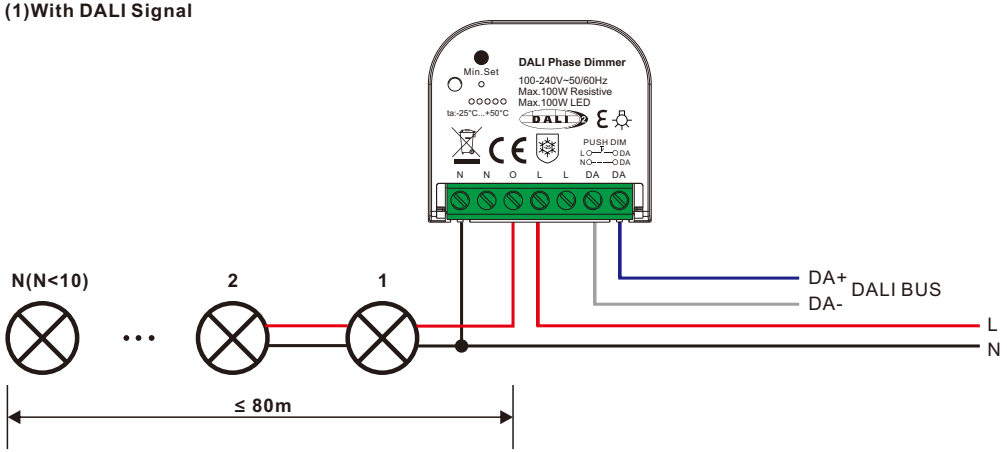
When connected to a push switch, click to turn the light ON/OFF. Press and hold to increase or decrease brightness.

Memory Function Under Push Dim

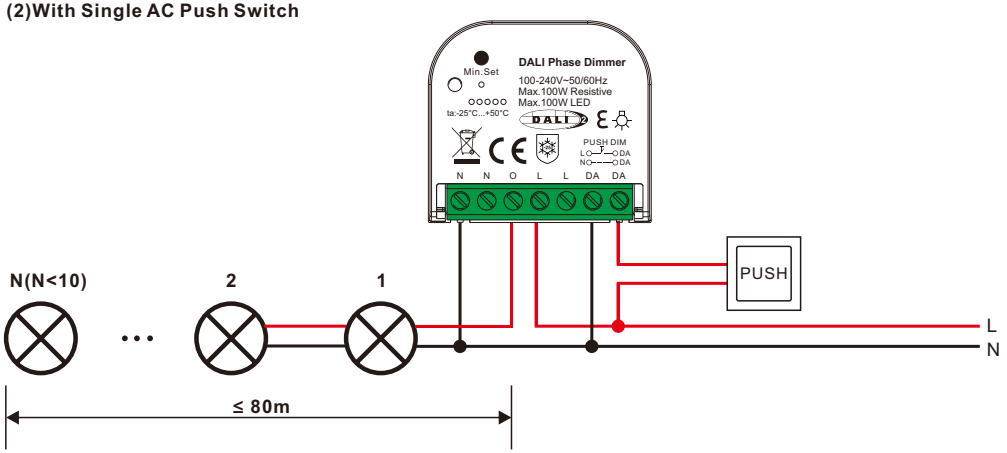
Adjust the light to the desired brightness using the push switch, then wait for more than 10 seconds. Turn the device power off, then back on. The light will restore the previously memorized brightness level.

Wiring diagram

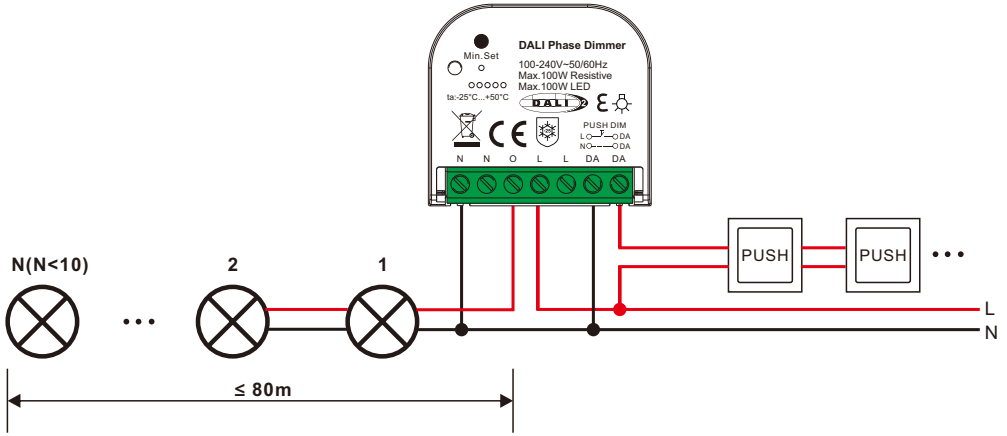
(1)With DALI Signal



(2)With Single AC Push Switch



(3)With Multiple AC Push Switches for Multiple Control Points



Note:

1) The maximum allowed number of parallel connected drivers or luminaries shall be less than 10, otherwise the dimmer may be damaged due to the high inrush current at the moment of starting.
2) The maximum allowed cable length from the dimmer to connected drivers or luminaries shall not be longer than 80 meters.
3) The maximum allowed cable length from the push switches to the dimmer shall not be longer than 80 meters.

This phase dimmer adopts trailing edge dimming (reverse phase control), please make sure the connected loads support reverse phase control. Please refer to the user manual of the load or consult the supplier of the load.