116819

Zigbee & RF to DALI converter

ISOLED®
CUSTOMISED LIGHT SOLUTIONS

OPERATING INSTRUCTIONS

Properties

- Zigbee & RF DALI master, 6 in 1 function, support single color, color temperature, RGB, RGBW, RGB + CCT or switch light control
- Philips HUE APP control through connection with Philips HUE Bridge
- Compatible with RF 2.4G single zone or multiple zones remote control optional
- 1 DALI address, support for DT6 dimming, DT8-TC color temperature, DT8-RGB, DT8-RGBW or DT7 switch
- In accordance with DALI standard protocol IEC 62386-101, 102, 207, 208, 209 and in accordance with DALI products from other international companies
- Power supply via DALI bus or 24 V DC
- Enables selection of the DALI address via coding switch, supports unicast, group and broadcast mode

Technical parameters

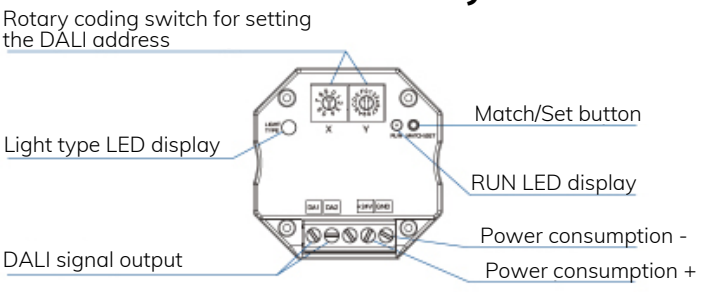
Input and output	
Power consumption:	DALI bus/24V DC
Static current	15mA@16V DC 2mA@24V DC
Input signal	Philips HUE + RF 2.4GHz
Output signal	DALI
Removing the remote control	30m (open and barrier-free)

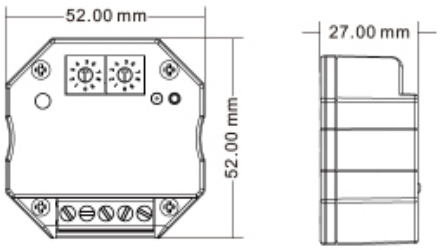
Warranty	
Guarantee	5 years

Surroundings	
Operating temperature	T_a: -20°C ~ +50°C
Case temperature (Max.)	T_c: +55°C
IP protection class	IP20

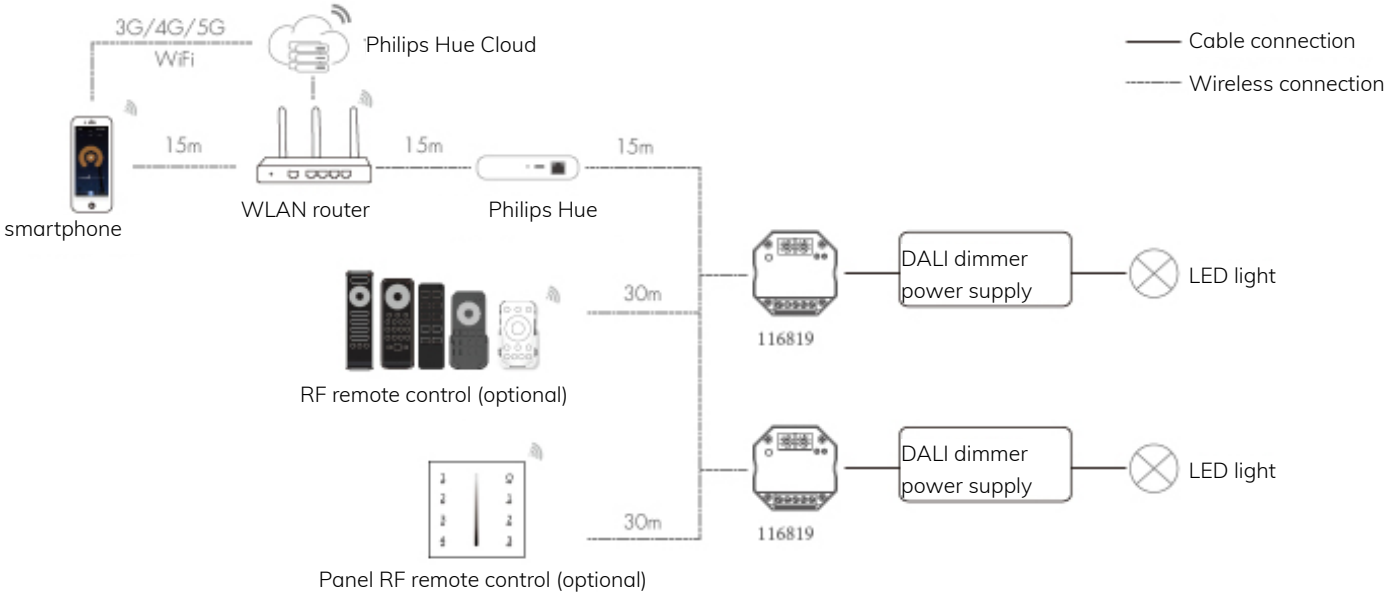
Packaging	
Dimensions	W60mm x L60mm x H40mm
Gross weight	0,061kg

Mechanical structures and systems



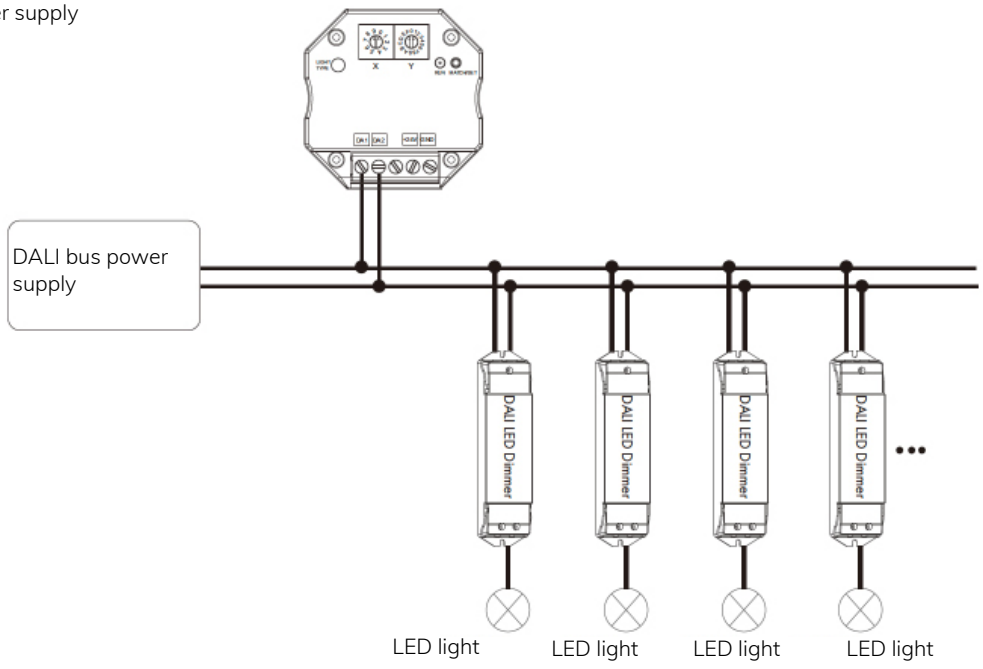


System cabling

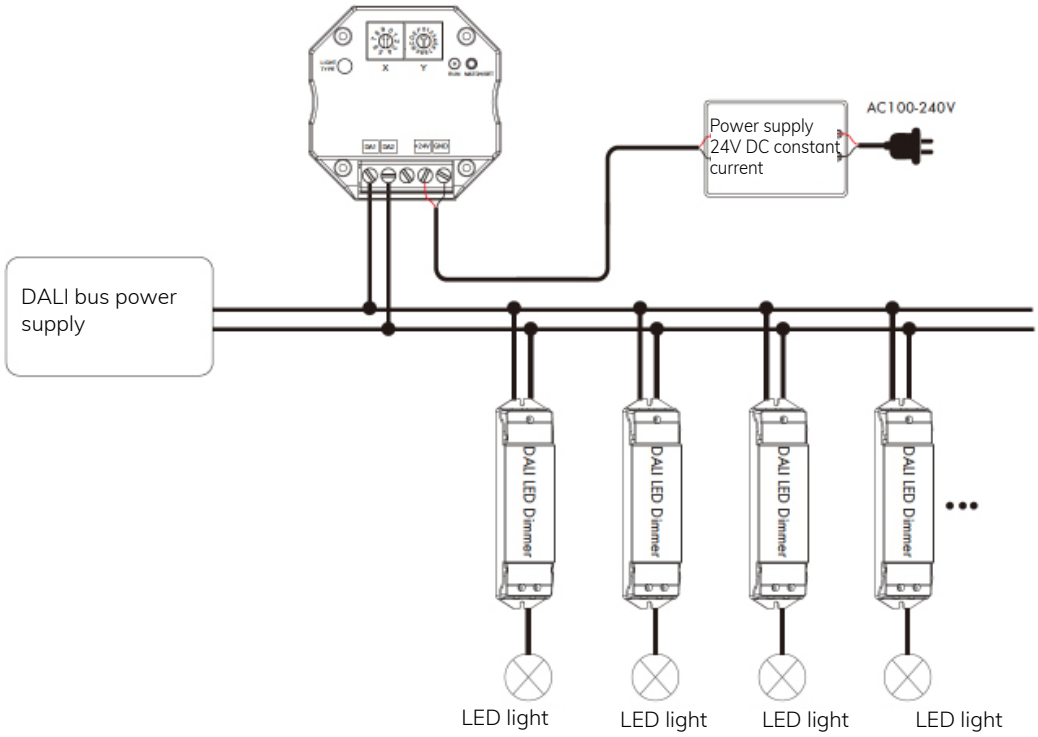


Circuit diagram

1. DALI bus power supply



2. 24V DC power supply



Note: It is recommended to use a 24 VDC power supply for the DALI master to reduce the load on the DALI bus power supply.

Light type settings

Switch	C
DIM	W
CCT	G
RGB	R
RGBW	G
RGB+CCT	B

Please choose the light type before configuring the Philips HUE APP network connection.
Press and hold the match/set button for 2 seconds, switch 6 types of light type in sequence, and light type LED indicator illuminates according to color.
White: DIM
Yellow: CCTR
Red: RGB
Green: RGBW
Blue: RGB+CCT
Cyan: SWITCH

Connecting the remote control (optional)

Please choose the same light type of RF remote control for adjustment, the end user can choose the appropriate adjustment/deletion path. There are two options to choose from:

Use the match push button:

Briefly press the match button and then immediately press the on/off button (single-zone remote control) or the zone button (multi-zone remote control) on the remote control. The RUN LED indicator flashes quickly a few times if the match is successful.

Delete:

Press and hold the Match button for 10s to delete all matches. The RUN LED indicator flashes quickly a few times, which means that all matching remote controls have been deleted.

Use Power Restart

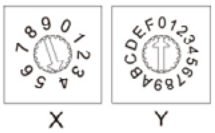
Match: Switch off the receiver power, then switch on the power, repeat the process.Immediately press the On/Off button (single zone remote control) or the zone button (multi-zone remote control) 3 times on the remote control.The RUN LED indicator flashes 3 times, which means that the adjustment was successful.

Delete: Switch off the receiver's power, then switch on the power, repeat the process.Immediately press the On/Off button (single zone remote control) or the zone button (multi-zone remote control) 5 times on the remote control.The RUN LED indicator flashes 5 times, which means that all calibrated remote controls have been deleted.

Setting the DALI address

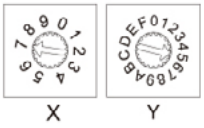
Address value = X * 10 + Y. For example: X = 5, Y = 4, address value = 5 x 10 + 4 = 54.

Unicast mode



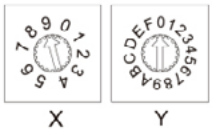
X is 0-6, Y is 0-9. The address value 0-63 corresponds to the DALI unicast address 00-63. Example: Address value = 40, the unicast address value is 40.

Group mode



X is 7, Y is 0-F. The address values 70-7F correspond to the DALI group addresses 0-15. For example: address value = 75, the group address value is 5.

Broadcast mode



X is 9, Y is 0-F. The address values 90 - 9F correspond to the broadcast address.