LDT-DALI-BUS-PSU-200MA

200 mA DALI Bus Power Supply & Isolated Repeater

Extend a suitable DALI control line with isolated signal repeating and an integrated 200 mA supply for the subordinate line.

Supply voltage	100-240 VAC, 50/60 Hz
Output type	DALI bus power + bidirectional isolated DALI repeater
Maximum bus output current	200 mA
Input current	0.1 A
DALI line extension	300 m to 600 m per documented extension arrangement
Maximum series repeaters	3; guide illustrates total bus length up to 1200 m
Maximum gear count	64 devices across the total network; repeater does not increase this
Topology	Documented single-master star or cascade
Protection	Short circuit
Operating temperature	-20 to +55 °C
Body dimensions	135 x 38 x 20.5 mm

This is a DALI bus supply, not an LED power supply. Do not add a further subordinate-line supply or increase the network device count merely because a repeater is fitted.

The following reference pages include the complete wiring, dimensions, settings and operating instructions. Use the lighting and hardware variant identified above; shared references may illustrate other separate models.

DALI

DALI Bus Power Supply & Repeater

- DALI repeater with integrated DALI power supply.
- Enhancement and transmission of DALI signals(bidirectional).
- DALI commands from any control unit are transmitted in all DALI-lines.
- Electrical insulation between the main control circuit and the subordinate control circuit.
- Star or cascade network layout installation require only a single master to operate.
- In single-master applications star networks with multiple repeaters can be set up.
- Cascaded network layout with up to 3 repeaters in series.
- For extending the DALI line length from 300 to 600m.
- Maximum output current of 200mA to power the entire DALI line.
- There is no increase in the maximum number of DALI units.
  The maximum amount of DALI-devices in the total network(main and subordinate circuit) is limited to 64, the devices can be divided on the subordinate circuit freely.
- For each subordinate DALI circuits no extra DALI power supply required.



CE RoHS

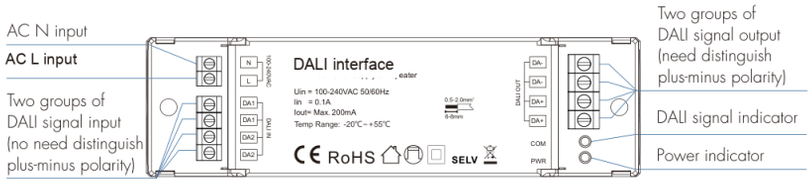
Technical Parameters

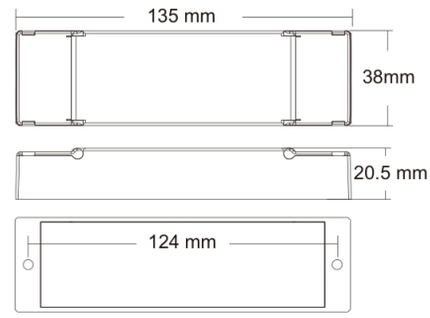
Input and Output	
Input voltage	100-240VAC
Input supply frequency	50/60Hz
Input current	0.1A
Output current	Max. 200mA
Input/Output signal	DALI

Environment	
Operation temperature	Ta: -20 °C ~ +55 °C
Protection	Short-circuit
Package	
Size	L156 x W48 x H22mm
Gross weight	0.082kg

Safety and EMC	
Safety standard	EN 61347-1/-2
EMC standard	EN IEC 55015/EN IEC 61547 ETSI EN 301 489-1/-3
Radio Equipment	ETSI EN 300 440
Certification	CE RoHs

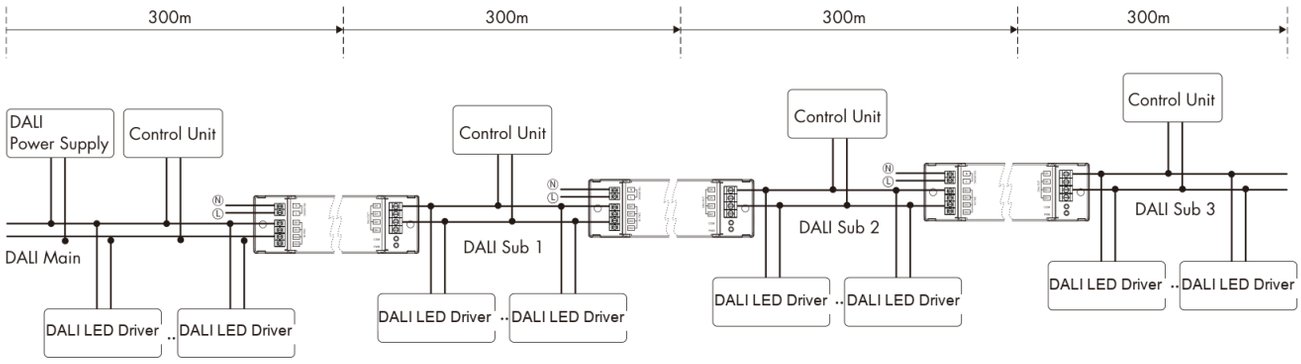
Mechanical Structures and Installations





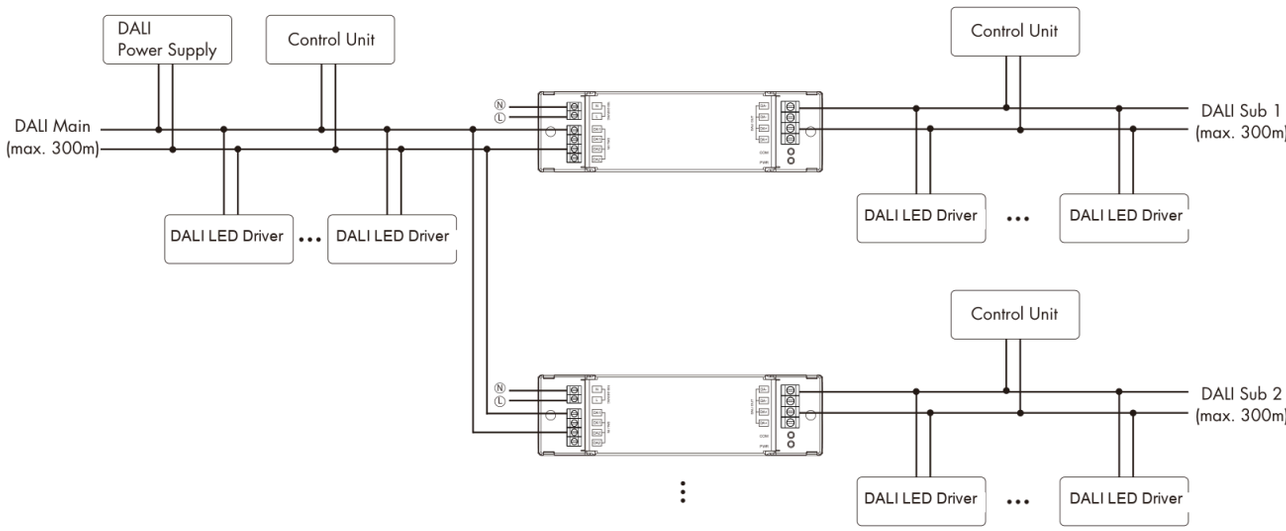
Wiring Diagram

1. Serial wiring for longer bus distances



Note: In case of series wiring, up to 3 repeaters can be connected and the DALI bus can be extended up to 1200 meters.

2. Parallel wiring for increase load on the DALI line



DALI LED driver: include DALI dimming controller, DALI dimming power supply, etc.
Control Unit: include DALI master, self-resetting switch, DALI switch panel, DALI sensor, etc.

Note:

- The length of the DALI control line after the DALI repeater must not exceed 300m (for a cable cross-section of 1.5 mm^2) or the drop in voltage must not exceed 2V.
- When the DALI bus power supply is powered on, the power LED indicator (PWR) does not light up.
  When the DALI output DA+ and DA- is short-circuited, the power LED indicator (PWR) is always red.
- The DALI signal indicator (COM) is always green, and the DALI signal indicator (COM) blinks for each frame of DALI signal received.
- When the DALI repeater receives an incorrect DALI signal, the DALI signal indicator (COM) will display red for 1 second.
- The outputs of different DALI repeaters can not be connected to each other.
- The outputs of the DALI repeater do not need to be connected to a DALI power supply.
- Single-master operation is recommended; multi-master operation may be limited.

Safety & Warnings

- Do not install the bus power supply in a humid environment.
- Do not install the bus power supply with electricity.