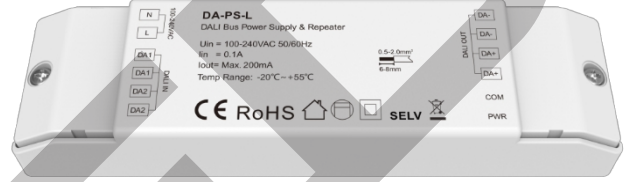


DA-PS-L

Napájanie a opakovač zbernice DALI

DALI

- Opakovač DALI s integrovaným napájaním DALI.
- Zlepšenie a prenos signálov DALI (obojsmerný).
- Príkazy DALI z akejkoľvek riadiacej jednotky sa prenášajú vo všetkých linkách DALI.
- Elektrická izolácia medzi hlavným riadiacim obvodom a podriadeným riadiacim obvodom.
- Inštalácia v hviezdicovej alebo kaskádovej konfigurácii si vyžaduje na prevádzku len jeden master.
- V aplikáciách s jedným masterom je možné nastaviť hviezdicové siete s viacerými opakovačmi.
- Kaskádové usporiadanie siete s až 3 opakovačmi v sérii.
- Na predĺženie dĺžky linky DALI z 300 na 600 m.
- Maximálny výstupný prúd 200 mA na napájanie celého vedenia DALI.
- Maximálny počet jednotiek DALI sa nezvyšuje.
Maximálny počet zariadení DALI v celkovej sieti (hlavný a podriadený obvod) je obmedzený na 64, zariadenia môžu byť voľne rozdelené na podriadený obvod.
- Pre každý podriadený obvod DALI nie je potrebný žiadny dodatočný napájací zdroj DALI.



CE RoHS

Technické parametre

Vstup a výstup		Prostredie		Bezpečnosť a EMC	
Vstupné napätie	100–240 V AC	Prevádzková teplota	Ta: -20 °C ~ +55 °C	Norma EMC	EN IEC 55015:2019+A11:2020 EN 61547:2023
Frekvencia vstupného napájania	50/60 Hz	Ochrana	Prehriatie	Bezpečnostná norma	EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019
Vstupný prúd	0,1	Balenie		Certifikácia	CE
Výstupný prúd	Max. 200 mA	Rozmer	Dĺžka 156 x šírka 48 x výška 22 mm		
Vstupný/výstupný signál	DALI	Hrubá hmotnosť	0,082 kg		

Mechanické konštrukcie a inštalácie

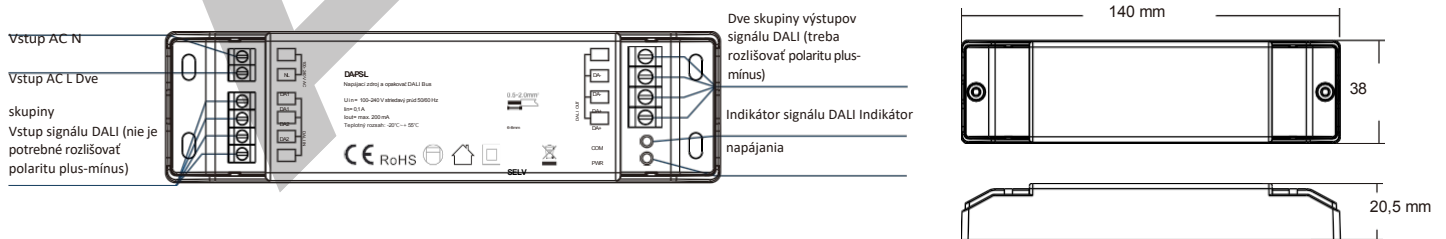
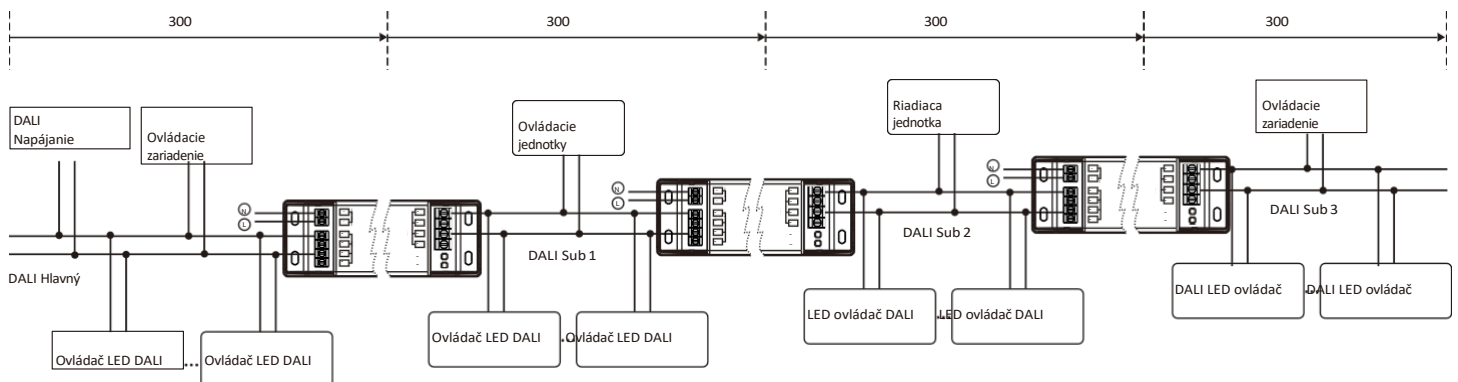


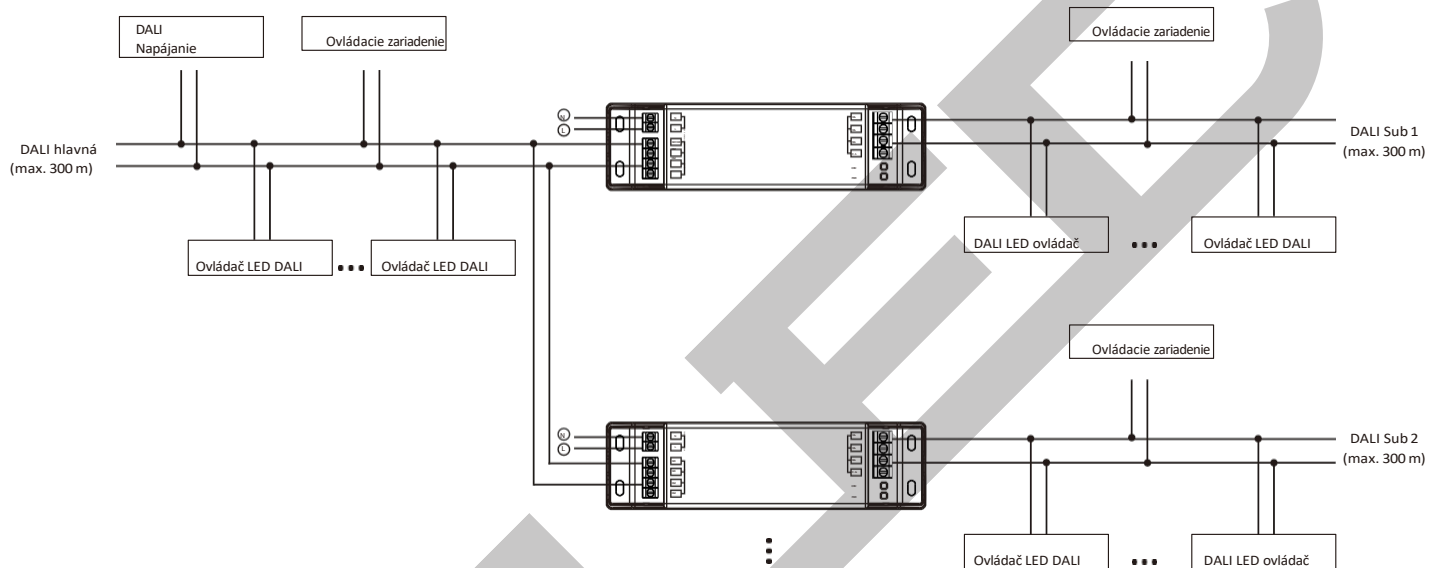
Schéma zapojenia

1. Sériové zapojenie pre väčšie vzdialenosti zbernice



Poznámka: V prípade sériového zapojenia je možné pripojiť až 3 opakovače a zväzok DALI je možné predĺžiť až na 1200 metrov.

2. Paralelné zapojenie pre zvýšenie zaťaženia na linke DALI



DALI LED ovládač: obsahuje DALI stmievač, DALI stmievač napájania atď.

Ovládacie jednotky: zahŕňajú DALI master, samonastaviteľný spínač, DALI spínaciu dosku, DALI senzor atď.

Poznámka:

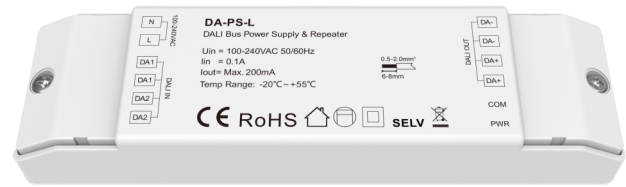
- Dĺžka riadiacej linky DALI za opakovačom DALI nesmie presiahnuť 300 m (pri priereze kábla 1,5 mm²) alebo pokles napätia nesmie presiahnuť 2 V.
- Keď je napájanie zbernice DALI zapnuté, indikátor napájania (PWR) svieti vždy červenou farbou.
- Indikátor signálu DALI (COM) svieti vždy zeleno a indikátor signálu DALI (COM) bliká pri každom prijatom rámci signálu DALI.
- Keď opakovač DALI prijme nesprávny signál DALI, indikátor signálu DALI (COM) svieti červeno po dobu 1 sekundy.
- Výstupy rôznych opakovačov DALI nemožno navzájom prepojiť.
- Výstupy opakovača DALI nemusia byť pripojené k napájaciemu zdroju DALI.
- Odporúča sa prevádzka s jedným masterom; prevádzka s viacerými mastermi môže byť obmedzená.

Bezpečnosť a varovania

- Nainštalujte napájací zdroj zbernice do vlhkého prostredia.
- Neinštalujte napájanie zbernice v blízkosti elektrickej energie.

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.

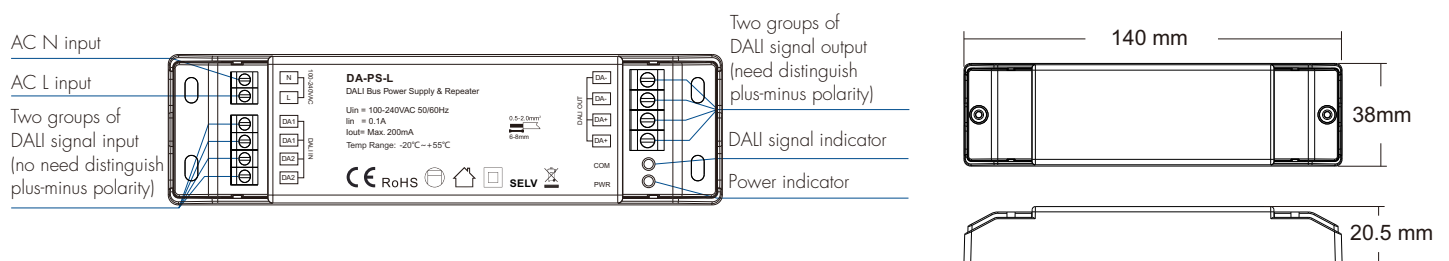


CE RoHS

Technical Parameters

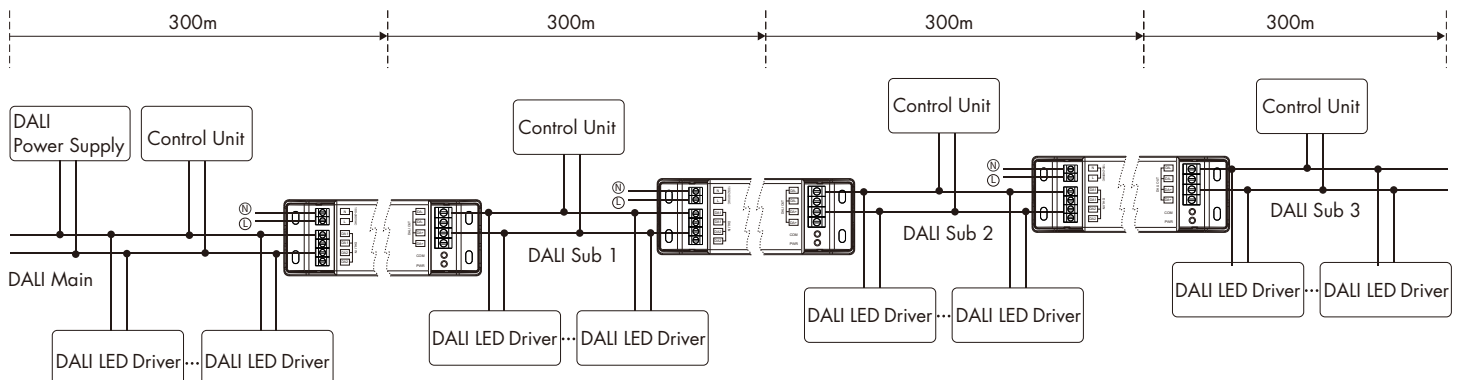
Input and Output		Environment		Safety and EMC	
Input voltage	100-240VAC	Operation temperature	Ta: -20°C ~ +55°C	EMC standard	EN IEC 55015:2019+A11:2020 EN 61547:2023 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019
Input supply frequency	50/60Hz	Protection	Over-heat	Safety standard	EN 61347-1:2015+A1:2021 EN 61347-2-13:2014+A1:2017
Input current	0.1A	Package		Certification	CE
Output current	Max. 200mA	Size	L156 x W48 x H22mm		
Input/Output signal	DALI	Gross weight	0.082kg		

Mechanical Structures and Installations



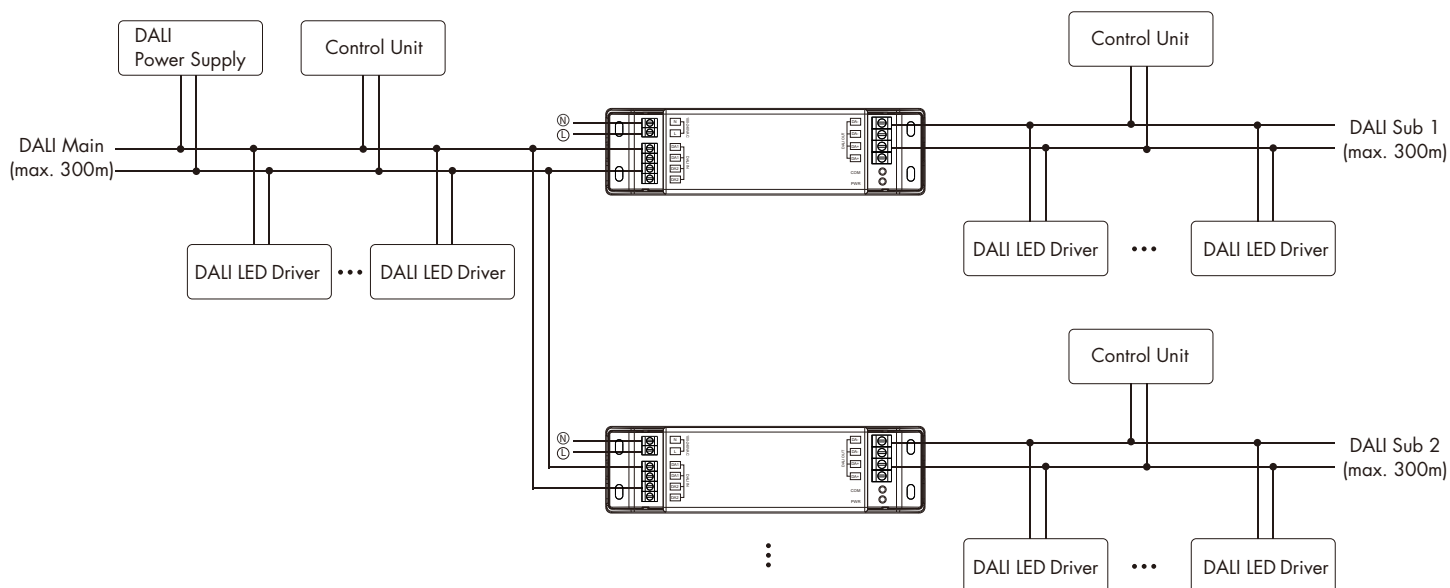
Wiring Diagram

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:

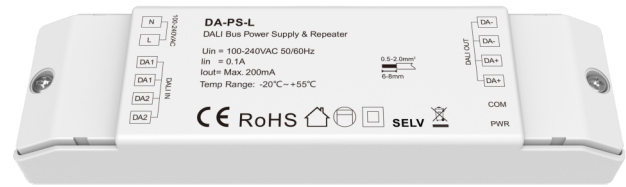
- The length of the DALI control line after the DALI repeater must not exceed 300m (for a cable cross-section of 1.5 mm²) or the drop in voltage must not exceed 2V.
- When the DALI bus power supply is powered up, the power indicator (PVR) is always red.
- The DALI signal indicator (COM) is always green, 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.

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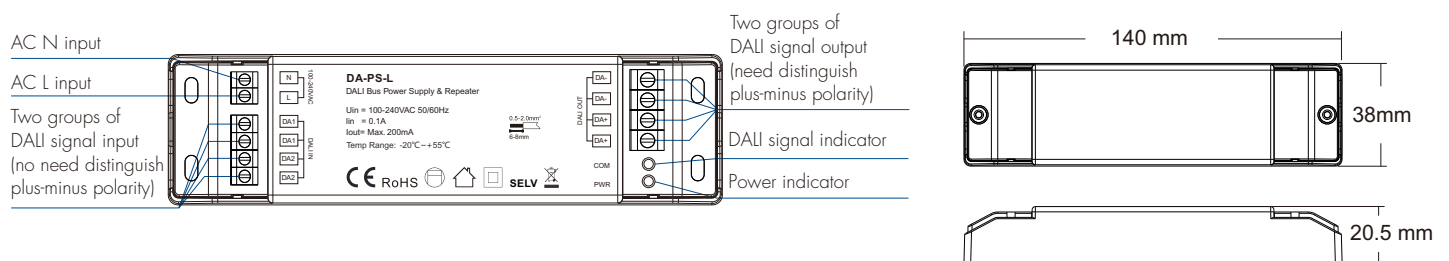


CE RoHS

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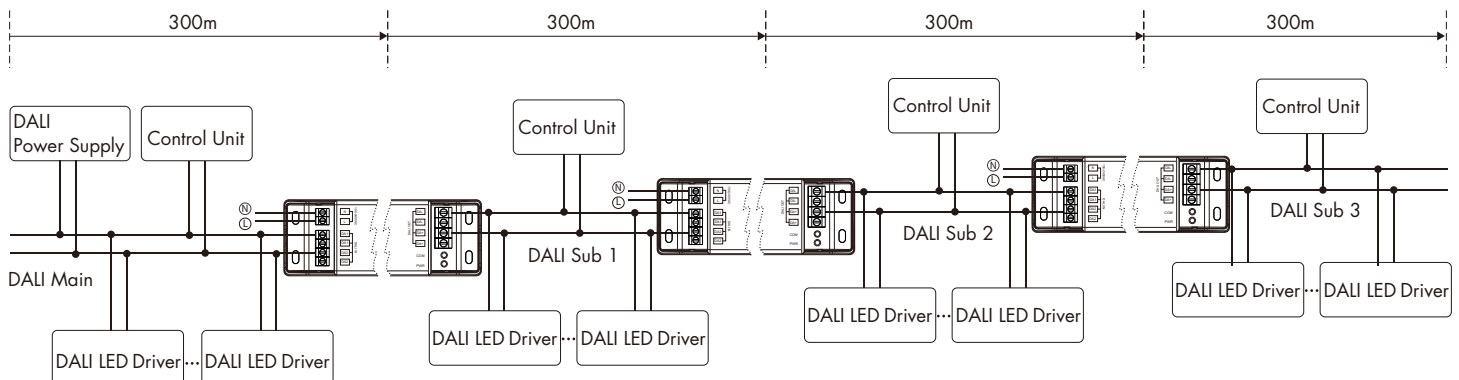
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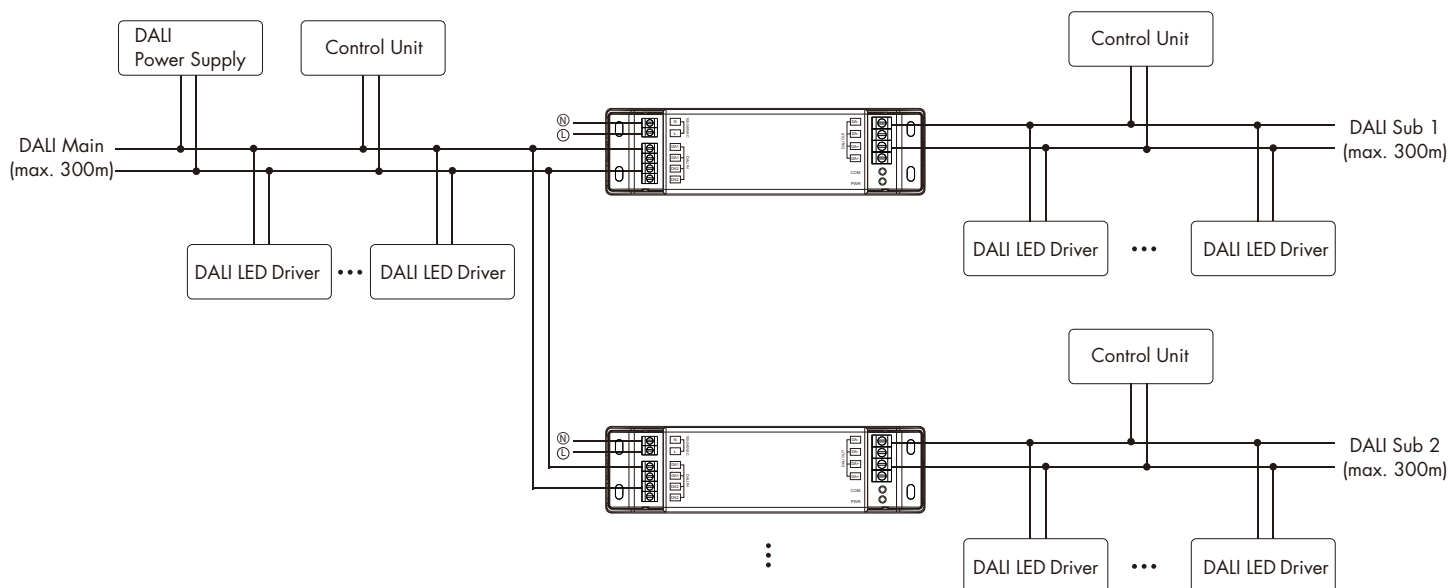
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