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DALI PS2 30mA DALI PS2 80mA



DALI-line power supply

Art. Nr. 24033444-30 Art. Nr. 24033444-80





DALI PS2 30mA, DALI PS2 80mA Bus Power Supply

Overview

- DALI bus power supply unit
- guaranteed Supply Current 30mA for Version 24033444-30, and. 80mA for Version 24033444-80
- maximum supply current allowed on a DALI line in total: 250mA
- Version 24033444-30 is suitable to power a DALI-line with up to 15 standard DALI ballasts
- Version 24033444-80 is suitable to power a DALI-line with up to 40 standard DALI ballasts

- suitable for back box installation and integration in protection class II devices
- power supply range 110Vac ... 240Vac for worldwide use
- surge immunity up to 400V







Specification, Characteristics

type	DALI PS2 30mA	DALI PS2 80mA
article number	24033444-30	24033444-80
input: L, N		
input type	mains power supply	
marking input terminals	L, N	
input voltage range	110Vac 240Vac	
max. input supply current	5mA	10mA
input supply frequency	50Hz / 60Hz	
power consumption max.	1W	2W
startup time	250	ms
output: DA+, DA- output type	DALI S	upply
marking output terminals	DA+, DA-	
output voltage range	12Vdc 20,5Vdc	
guaranteed DALI supply current	30mA	80mA
max. DALI supply current	50mA	100mA
open circuit proof	yes	
short circuit proof	yes	
insulation data:		
impulse voltage category	II	
pollution degree	2	
rated insulation voltage	250V	
rated impulse withstanding voltage	4kV	



insulation DALI / mains	reinforced isolation	
Insulation test voltage DALI / mains	3000V a.c.	
enviromental conditions:		
storing and transportation temperature	-20°C +75°C	
operational ambient temperature	-20°C +55°C	
rel. humidity, none condensing	15% 90%	
general data:		
dimensions (I x w x h)	59mm x 33mm x 15mm	
mounting	back box installation integration in protection class II device	

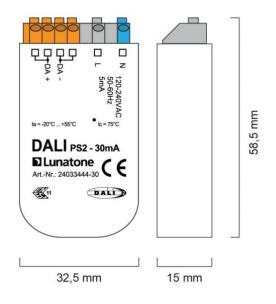
dimensions (I x w x h)	59mm x 33mm x 15mm	
mounting	back box installation	
	integration in protection class II device	
rated maximum temperature tc	75°C	
expected life time @tc	50.000 h	
protection class	II in intended use	
protection degree housing	IP40	
protection degree terminals	IP20	

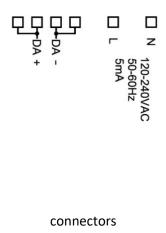
tο	min	alc.
LCI		aıs.

connection type	spring terminal connector
wire size solid core	0,5 1,5 mm² (AWG20 AWG16)
wire size fine wired	0,5 1,5 mm² (AWG20 AWG16)
wire size using wire end ferrule	0,25 1 mm²
stripping length	8,5 9,5 mm / 0,33 0,37 inch

standards:

DALI	EN 62386-101:2014	
EMC	EN 61547	
	EN50015 / IEC CISPR15	
safety	EN 61347-2-11	
	EN 61347-1	
markings	DALI-2, ENEC-11, CE	





dimensions

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Installation

- The DALI PS2 30mA and DALI PS2 80mA are intended for back box installation.
- Ensure proper working cable relief for installation in protection class II equipment
- Wiring as fixed installation in a dry and clean environment
- Installation only by qualified person when no voltage is applied
- Attend regulations regarding electrical installations of national authorities
- connect power supply terminals L and N to mains voltage
- the polarity of the output voltage is marked on the housing (DA+, DA-)
- The DALI-line may be installed within the same cable or as single conductors within the same tube as mains supply
- The DALI-line must not be connected to the mains or other extra low voltage systems

- DALI-line wiring with standard low voltage installation material.
- Wiring topology of the DALI-line: Line, Tree, Star



HINT: The DALI-signal is not classified as SELV circuit. Therefore the standards for installation in low voltage system apply.

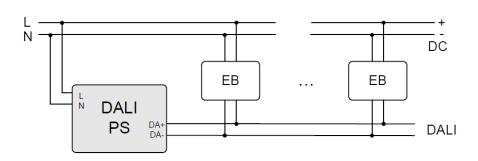


The voltage drop on the DALI-line must not exceed 2V. **Tip:** for long bus expansion, attach a DALI PS 80mA on both ends of the bus.

 Do not use standard DC power supplies as DALI bus power supply, they do not meet the requirements for DALI communication.



WARNING: an improper DALI power supply can cause damage on DALI devices!



wiring diagram

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Commissioning

- After connection, the DALI power supply is ready for use
- Ensure that the guaranteed supply current is higher than the sum of the current consumption of all bus devices.
- Ensure that the sum of the maximum supply currents on a DALI line does not exceed 250mA.

Purchase Order Information

Art.Nr. 24033444-30: DALI PS2 30mA, guaranteed DALI supply current 30mA, back box installation

Art.Nr. 24033444-80: DALI PS2 80mA, guaranteed DALI supply current 80mA, back box installation

Other DALI bus power supplies:

https://www.lunatone.com/en/product-category/dali-bus-system/bus-power-supply/

Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems http://lunatone.at/de/dali-systeme/software/

Lunatone DALI products http://www.lunatone.at/de/

Lunatone datasheets and manuals http://lunatone.at/de/downloads/

Contact

Technical Support: support@lunatone.com

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Disclaimer

Subject to change. Information provided without guarantee. The datasheet refers to the current delivery.

The function in installations with other devices must be tested for compatibility in advance.