

## DALI PS128

### Datasheet

#### DALI Bus Power Supply Unit



DALI-line power supply

Art. Nr. 24033444-128

# DALI PS128 Bus Power Supply

## Overview

- DALI bus power supply unit
- guaranteed Supply Current 128mA
- maximum Supply Current 250mA
- suitable to power an entire DALI-line with 64 standard DALI ballasts
- independent electronic device for remote ceiling and integration in protection class II devices
- power supply range 110Vac ... 240Vac for worldwide use
- surge immunity up to 400V



## Specification, Characteristics

|                                      |                                |
|--------------------------------------|--------------------------------|
| <b>type</b>                          | <b>DALI PS128</b>              |
| article number                       | 24033444-128                   |
| <b>input: L, N</b>                   |                                |
| input type                           | mains power supply             |
| marking input terminals              | L, N                           |
| input voltage range                  | 110Vac ... 240Vac              |
| max. input supply current            | 40mA (@110Vac), 20mA (@240Vac) |
| input supply frequency               | 50Hz / 60Hz                    |
| power consumption max.               | 4W                             |
| startup time                         | 250ms                          |
| <b>output: DA+, DA-</b>              |                                |
| output type                          | DALI Supply                    |
| marking output terminals             | DA+, DA-                       |
| output voltage range                 | 12Vdc ... 20,5Vdc              |
| DALI supply current                  | 150mA                          |
| guaranteed DALI supply current       | 128mA                          |
| max. DALI supply current             | 250mA                          |
| open circuit proof                   | yes                            |
| short circuit proof                  | yes                            |
| <b>insulation data:</b>              |                                |
| 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:**

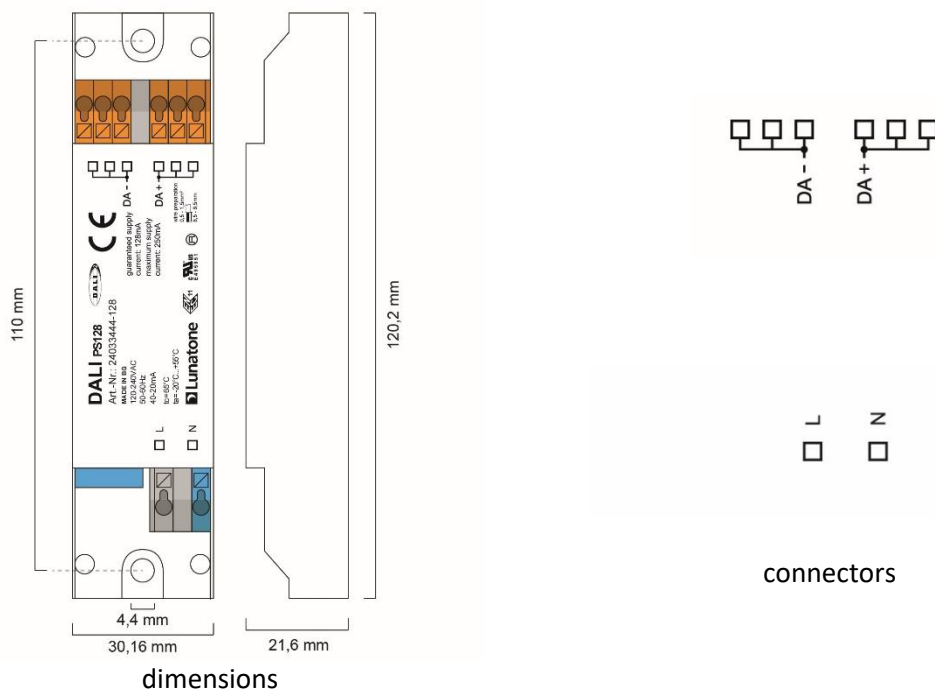
|                              |   |
|------------------------------|---|
| dimensions (l x w x h)       | 120mm x 30mm x 22mm   |
| mounting                     | remote ceiling<br>integration in protection class II device |
| rated maximum temperature tc | 65°C  |
| expected life time @tc       | 50.000 h  |
| protection class             | II in intended use  |
| protection degree housing    | IP40  |
| protection degree terminals  | IP20  |

**terminals:**

|                                  |   |
|----------------------------------|---|
| connection type                  | spring terminal connector                     |
| wire size solid core             | 0,5 ... 1,5 mm <sup>2</sup> (AWG20 ... AWG16) |
| wire size fine wired             | 0,5 ... 1,5 mm <sup>2</sup> (AWG20 ... AWG16) |
| wire size using wire end ferrule | 0,25 ... 1 mm <sup>2</sup>                    |
| stripping length                 | 8,5 ... 9,5 mm / 0,33 ... 0,37 inch           |

**standards:**

|                |                                   |
|----------------|-----------------------------------|
| DALI           | EN 62386-101:2014                 |
| EMC            | EN 61547<br>EN50015 / IEC CISPR15 |
| safety         | EN 61347-2-11<br>EN 61347-1       |
| markings       | DALI-2, CE, ENEC-11, cURus        |
| UL file number | E495951                           |



## Installation

- The DALI PS128 is intended for remote installation in the ceiling or in an enclosure
- 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.

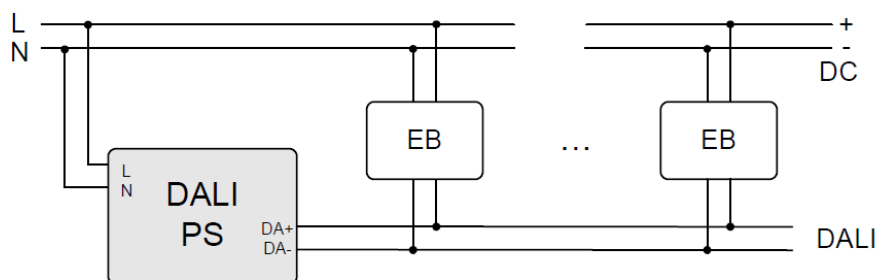


The voltage drop on the DALI-line shall not exceed 2V.

- Don't use standard DC power supplies on the DALI-line, since they do not meet the requirements for DALI communication



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



wiring diagram

## Commissioning

- The DALI power supply is ready for use
- Make sure that the guaranteed supply current exceeds the current consumption of all bus devices

## Purchase Order Information

**Art.Nr. 24033444-128:** DALI PS128,  
guaranteed DALI supply current 128mA,  
remote ceiling

## Additional Information

Datasheets and manuals

<https://jumitech/produkter>

DALI-Cockpit – free configuration tool from  
Lunatone for DALI systems

[http://lunatone.at/en/downloads/Lunatone\\_DALI-Cockpit.zip](http://lunatone.at/en/downloads/Lunatone_DALI-Cockpit.zip)

## Contact

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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.