

## DALI Expander

### Datenblatt

#### Expander with Power Supply

device for simple DALI circuit expansion with integrated Bus power supply



Art. Nr. 89453847

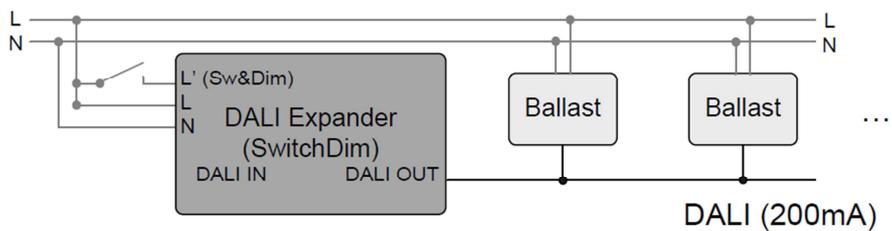
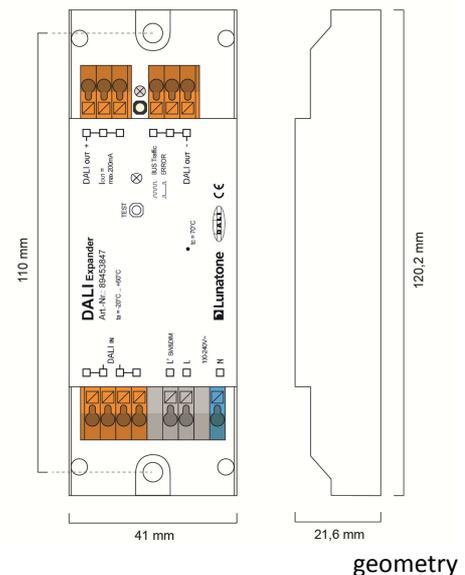
# DALI Expander Expander with Power Supply

## Overview

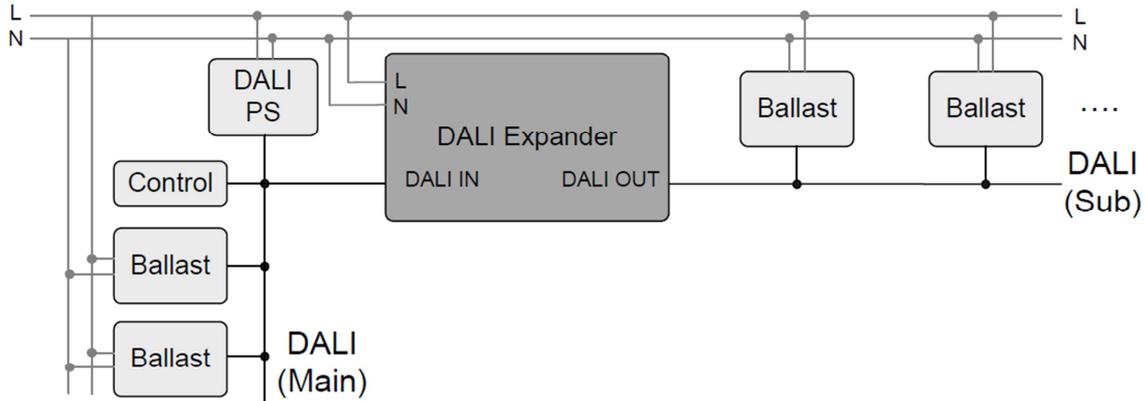
- Device for simple DALI circuit expansion
- Control of several DALI-devices via one DALI-address
- For the superordinate DALI circuit the DALI expander acts as a DALI EVG (DALI IN) with a single address.
- Output (DALI OUT) with DALI power supply (200mA) for the supply of DALI EVG's and DALI control modules.
- Forwarding commands received at the input (DALI IN) to the output (DALI OUT) broadcast
- LAMP FAILURE can be queried (firmware 1.2 and higher)
- Alternative control options of the DALI-output circuit via Switch&Dim-input (Broadcast).
- Galvanic separation between DALI-circuits.
- Multiple DALI-terminals

## Specification, Characteristics

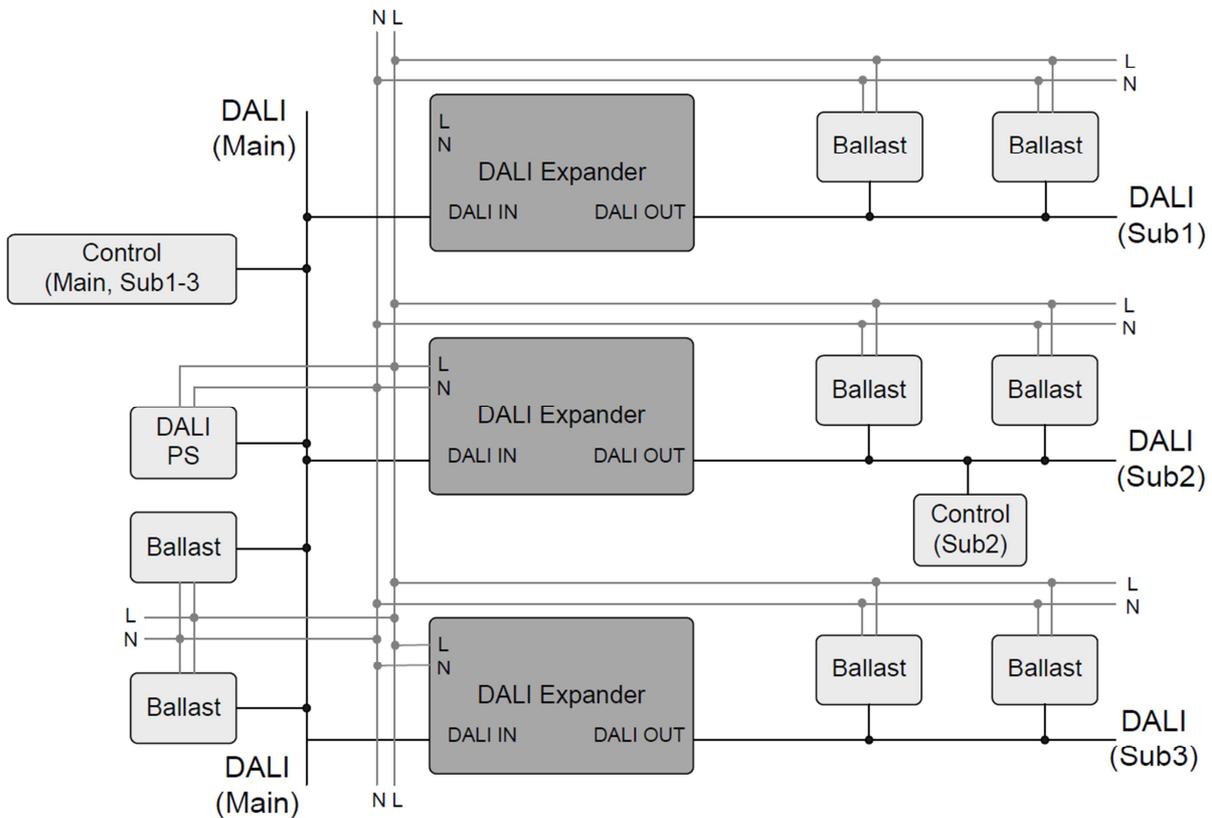
type	DALI Expander
article number	89453847
power supply	100V-240V AC
typ. current consumption DALI input (DALI IN)	2 mA
output (DALI OUT), power supply	200 mA
input/output	DALI / DALI
geometry (L x W x H)	120mm x 41mm x 21mm
working temperature	-20°C bis +60°C
protection class	IP20



Control of DALI loads via Switch/Dim



Expansion of a DALI circuit (Main) with a DALI subordinate circuit (all control commands sent to the DALI Expander are sent Broadcast to the DALI sub-circuit.)



Expansion of a DALI circuit (Main) with multiple broadcast controllable DALI sub-circuits. The additional control module in DALI (Sub2) enables the specific control of the sub-circuit.

**Function**

With the help of the DALI-Expander more than 64 DALI control gear can be controlled within one DALI-line. On the input the DALI-Expander represents one device (DALI IN) by its address and can be handled like a typical DALI ballast. All commands received by the device are

forwarded broadcast to the sub circuit (DALI OUT). Hence control gear connected to DALI OUT can be controlled via the DALI address of the expander. The power supply for the DALI sub circuit is provided by the expander itself (200mA). For command forwarding there are no device type specific restrictions.

A LAMP FAILURE of the DALI sub circuit can be queried as well (supported by firmware version 1.2 and higher). Because of the standardized DALI-Timing the answer from the sub-circuit cannot be sent immediately to the host. The answer sent to the host from the expander always is the answer from the last query. Hence the query command has to be sent twice.

DALI commands:

Query Actual Level (=255 on Lamp Failure)

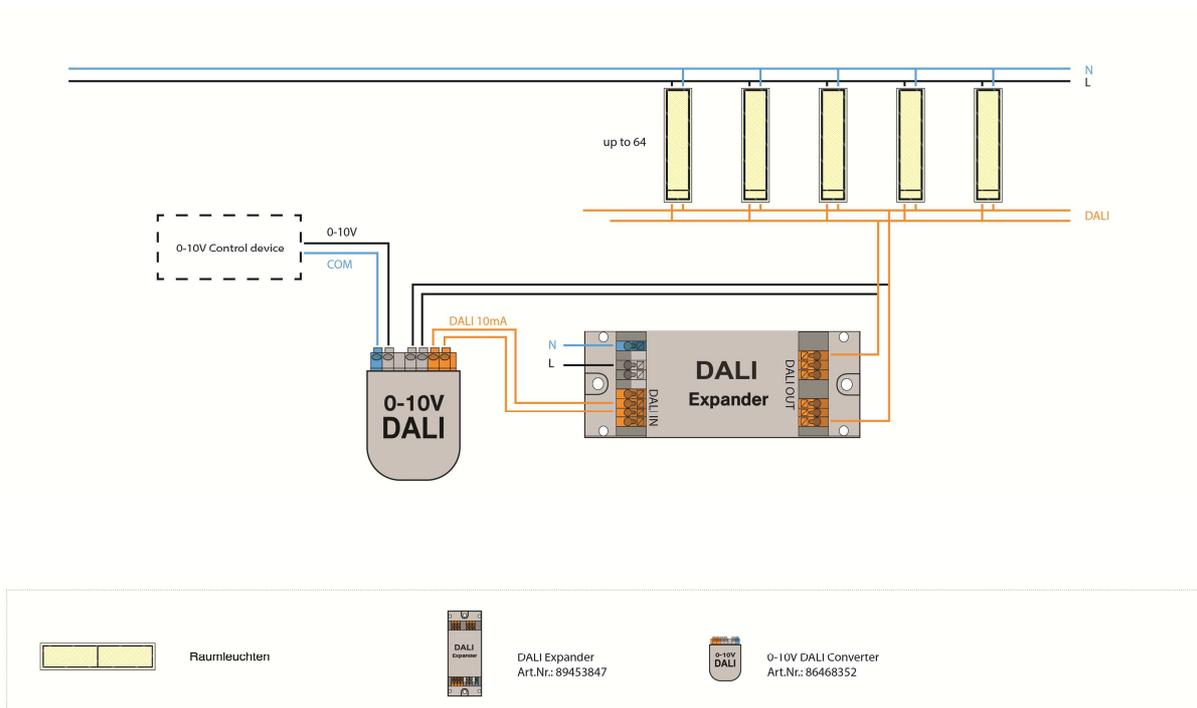
Query Status (Bit[1]=1 on Lamp Failure)

Query LampFailure (answer = YES on LampFailure)



DALI-Timing: Query Lamp Failure

### Application Example



64 DALI-devices controlled by a 0-10V control device using a 0-10V to DALI converter (Art.Nr: 86458352)

## Purchase Information

Art.Nr. 89453847: DALI Expander with  
integrated bus power supply

## Additional Information and Equipment

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)

Lunatone DALI products

<http://www.lunatone.at/en/>

Lunatone datasheets and manuals

<http://lunatone.at/en/downloads/>

## Contact

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[www.lunatone.com](http://www.lunatone.com)



## 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.