



## 0-10V to DALI Converter

### Datasheet Interface

Module for the control of a DALI-  
line with analogue 0-10V signals

- Art. Nr. 86468353-1-HS (1 channel)
- Art. Nr. 86468353-2-HS (2 channels)
- Art. Nr. 86468353-3-HS (3 channels)

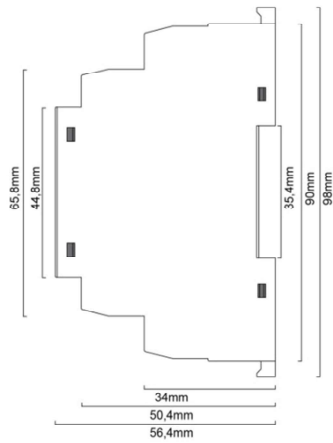
# 0-10V to DALI Converter Interface

## Overview

- Small interface module for the conversion of 0-10V control signals to DALI dim levels
- Devices with 1, 2 and 3 channels available
- The 0-10V voltage is transformed to a DALI dim level and DALI-command Off and sent to the defined effective range on the DALI line
- A change on the 0-10V input voltage (<1%) is used as event trigger
- Supply voltage 12V to 24V DC
- Configuration of effective range and conversion characteristic (conversion curve and behaviour below 1V input voltage) via DALI-Cockpit and DALI-USB-interface
- Passive input: the module does not supply any voltage to the input, suitable for control with a 0-10V analogue signal (e.g. Siemens LOGO)
- External DALI power supply (e.g. DALI PS) required
- **Galvanic isolation between DALI-Bus and 0-10V input respectively 24V-supply voltage**

## Specification, Characteristics

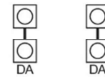
Type	0-10V to DALI Converter		
article number	86468353-1-HS	86468353-2-HS	86468353-3-HS
<b>Elektrical data:</b>			
supply	12V-24V DC		
typ. input current 24V	5mA		
input	1x 0-10V / 0,1mA	2x 0-10V / 0,1mA	3x 0-10V / 0,1mA
output	DALI		
Function	converter, function configurable via DALI		
<b>Technical data:</b>			
temperature	-20°C ...60°C		
geometry	1TE, 98mm x 56mm x 18mm		
mounting	Din rail		
protection class	IP20		
connecting wire cross section	up to 2.5 mm <sup>2</sup>		



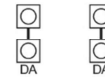
geometry



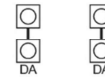
17,5mm



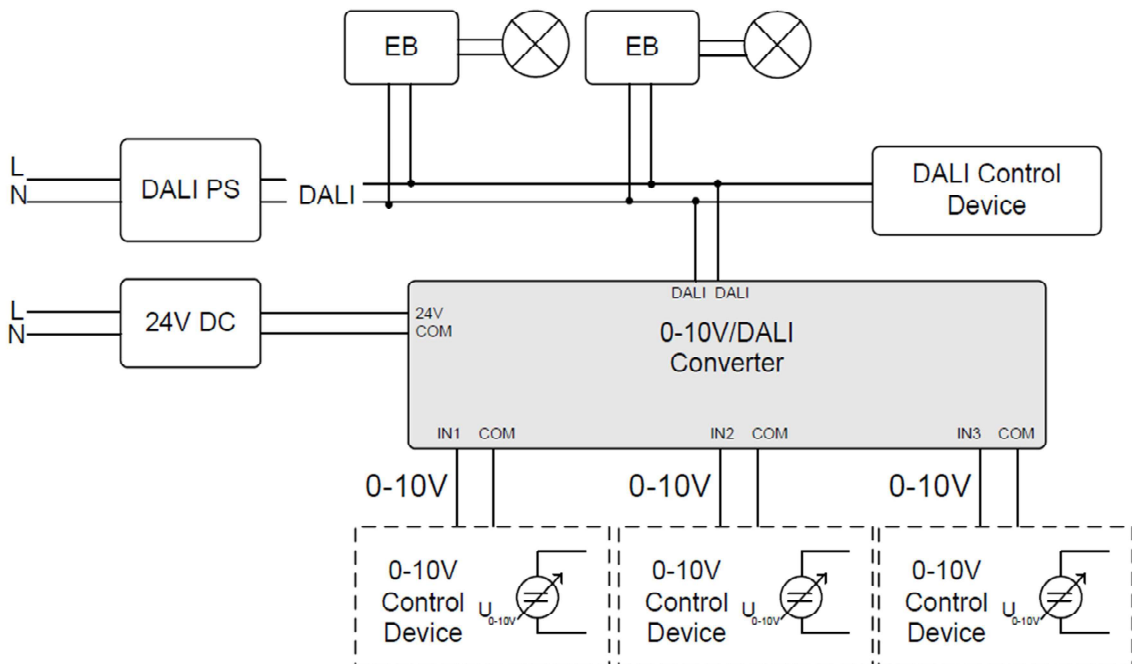
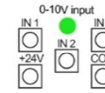
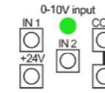
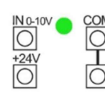
connection plan  
1 channel



connection plan  
2 channel

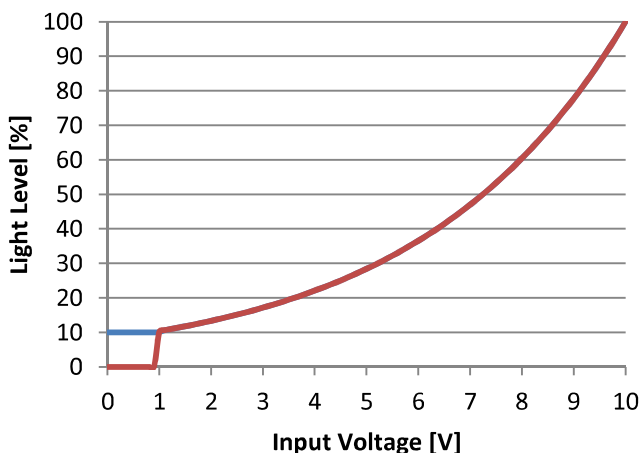


connection plan  
3 channel



typical installation 3channel 0-10V to DALI converter

## 0-10V / DALI conversion



Light level of a DALI-ballast connected to the converter (corresponding to IEC62386-102).

**conversion characteristic:**

The input voltage in the range of 1V-10V is converted into DALI dim levels.

In the DALI-Cockpit the following parameters can be changed:

**Light Level Range:**

0.1%-100%, 1%-100% or 10%-100%

**On/Off-Behaviour:**

the behaviour below 1V input voltage:  
DALI-command OFF or RECALL MIN

On the left the characteristic with 10%-100% dimming range is shown as an example.

## Purchase Order Information

**Art. Nr.: 86468353-1-HS:** 1 channel 0-10V to DALI Konverter, conversion of a 0-10V analog voltage to a DALI dim level, input passive, 24V DC supply, input and supply electrically isolated to DALI-line, suitable for external DALI power supply, din rail

**Art. Nr.: 86468353-2-HS:** 2 channel 0-10V to DALI Konverter, conversion of a 0-10V analog voltage to a DALI dim level, input passive, 24V DC supply, input and supply electrically isolated to DALI-line, suitable for external DALI power supply, din rail

**Art. Nr.: 86468353-3-HS:** 3 channel 0-10V to DALI Konverter, conversion of a 0-10V analog voltage to a DALI dim level, input passive, 24V DC supply, input and supply electrically isolated to DALI-line, suitable for external DALI power supply, din rail

## 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

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## Disclaimer

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

The compatibility with other devices must be tested in advance to the installation.