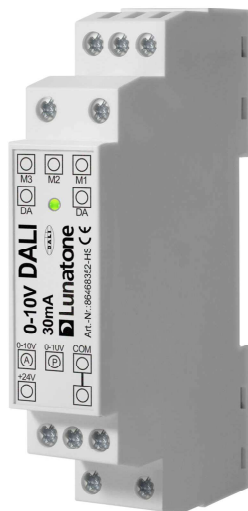


## 0-10V to DALI Converter 30mA



### Datasheet Interface

Interface for converting 0-10V  
control signals to DALI dim levels  
with integrated DALI power supply

Art. Nr. 86468352-HS

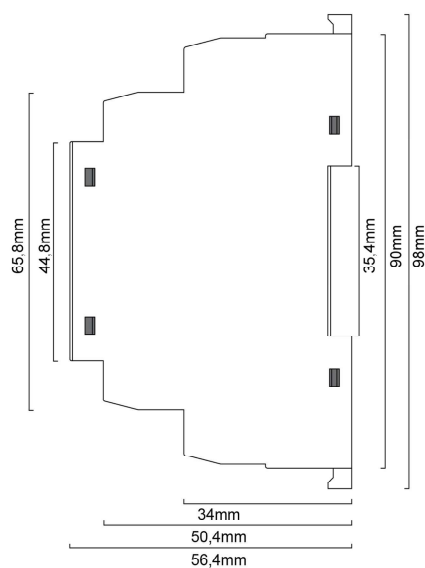
# 0-10V to DALI Converter 30mA Interface

## Overview

- Compact interface module for the conversion of 0-10V control signals to DALI dim levels
- The interface module provides a 30mA DALI power supply for up to 10 standard DALI ballasts
- passive and active 0-10V input
- The converted value is sent broadcast on the DALI subnet
- A change in the 0-10V input voltage signal (>1%) is used as trigger event.
- The interface module requires a 12-24V power supply
- Easy set up of the dim characteristic with the help of jumpers
- **A galvanic isolation between the ballasts connected to the DALI-output (30mA) and the 0-10V signal input (and 24V supply input) can be realised with the help of a DALI-Expander**

## Specification, Characteristics

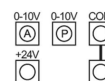
type	0-10V / DALI Converter
article number	86468352-HS
<b>electrical data:</b>	
supply voltage	12V-24V
typ. current consumption	4mA + current for DALI output
input	0-10V, passive or active
output	DALI I <sub>max</sub> =30mA
function	signal converter, selection of dim characteristic with jumper
<b>mechanical data:</b>	
ambient temperature	-10°C to 50°C
protection class	IP60
maximum connecting wire cross section	0.5-2.5 mm <sup>2</sup>
mounting	din rail
geometry	98 / 17 / 56 mm



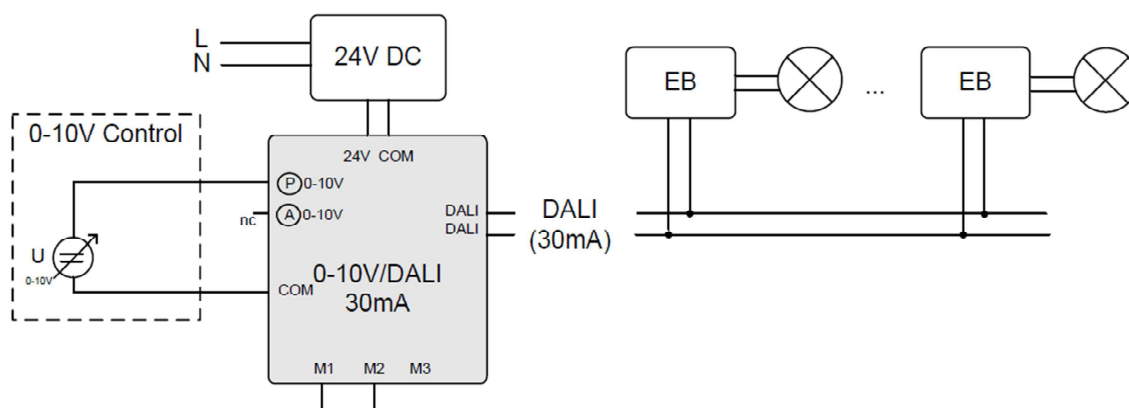
geometry



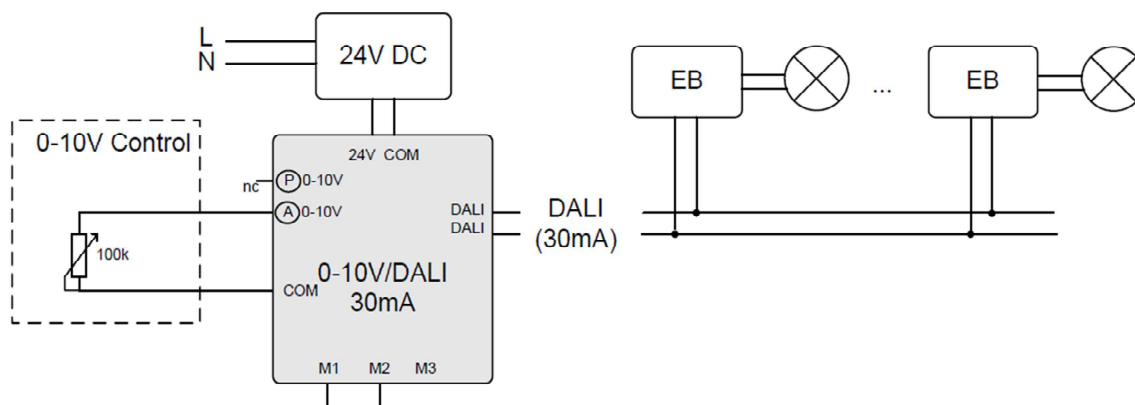
17,5mm



connection plan

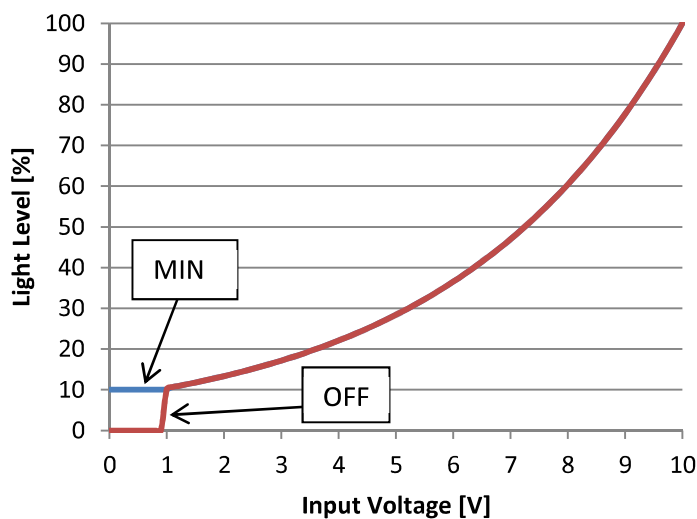


typical application with 0-10V voltage on input P (input passive, 0-10V control = source )



typical application with 100k potentiometer on input A (input active, 0-10V control = sink)

## 0-10V to DALI conversion



### Conversion Curve:

The input voltage range of 1V-10V is converted to the light level range of the connected DALI ballast.

The input voltage is converted to either 1%-100% or 10% -100% light level

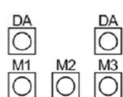
For a better visualisation only the characteristics of the 10% types are shown on the left.

### ON/OFF:

As behaviour below 1V the device can either switch OFF (red) or send the minimum level (blue).

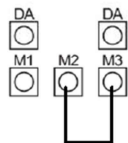
The light level is the output power of a standard DALI-ballast (IEC62386-102) which is connected to the converter.

### Dim Characteristic Selection by Jumper on M1 ... M3



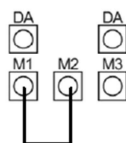
#### V1:

Dimming: 1%-100%  
below 1V: OFF  
(red characteristic)



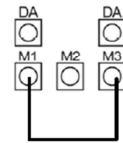
#### V2:

Dimming: 10%-100%  
below 1V: OFF  
(red characteristic)



#### V3:

Dimming: 1%-100%  
below 1V: Min (1%)  
(blue characteristic)



#### V4:

Dimming: 10%-100%  
below 1V: Min (10%)  
(blue characteristic)

## Purchase Information

**Art.Nr. 86468352-HS:** 0-10V to DALI converter, internal 30mA DALI power supply, configurable dim characteristic, active and passive 0-10V input, din rail mounting

## Additional Information and Equipment

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

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