JUMiTECH

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)
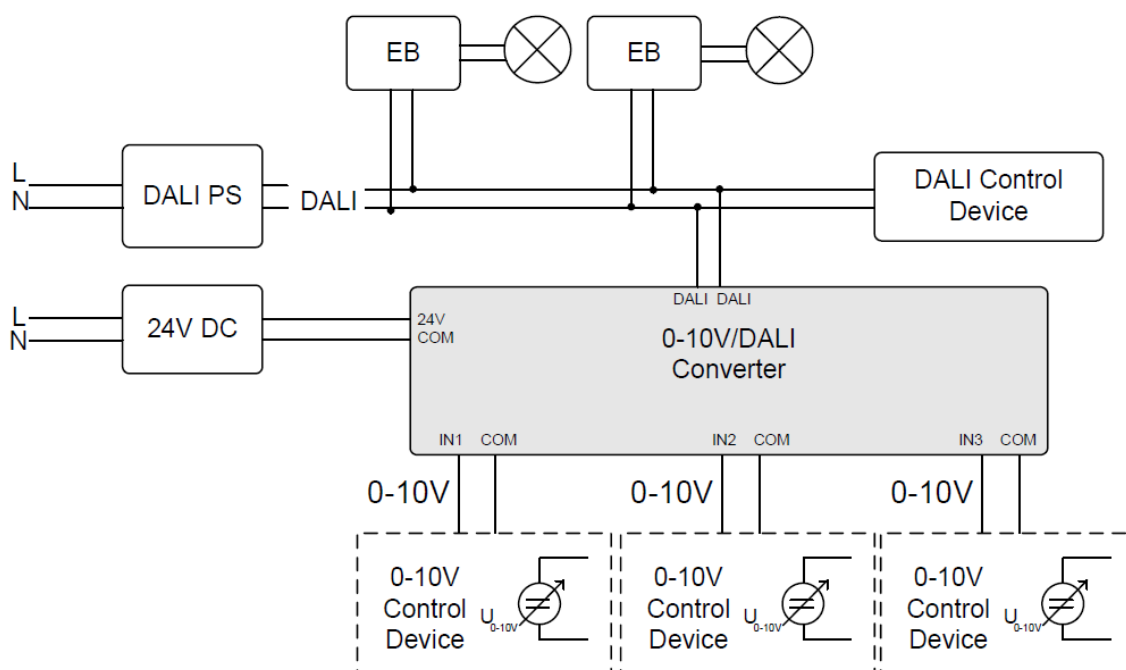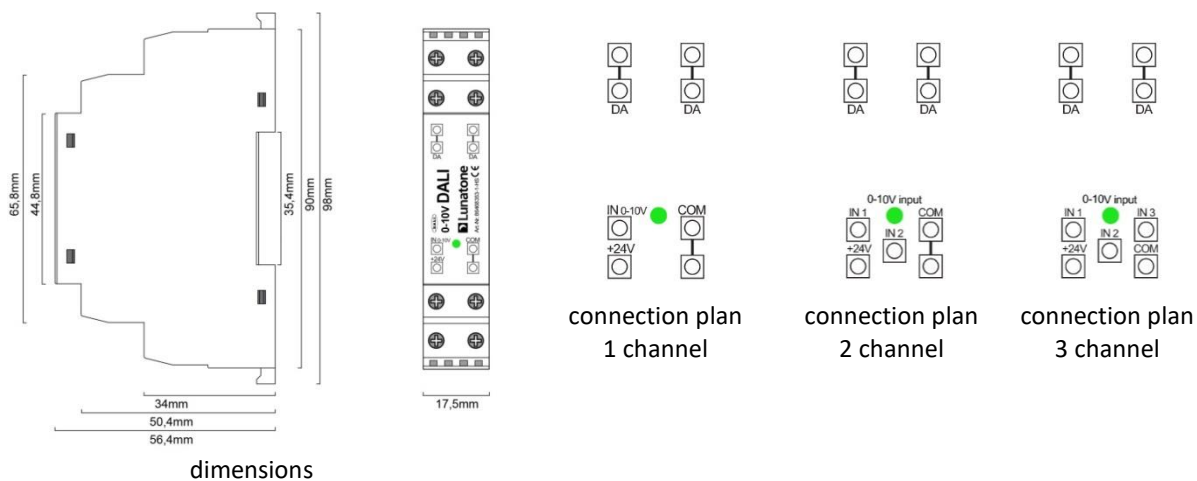Art. Nr. 86468353-3-HS (3 channels)

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 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 (e.g. 24V/300mA Art.Nr. 24166012-24HS), multiple devices can be supplied by the same supply voltage

- 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, multiple devices can be connected to the same DALI-line

- **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

Electrical data:

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		

Technical data:

storing and transportation temperature	-20°C … +75°C
operating ambient temperature	-20°C …+75°C
protection class	IP20
connecting wire cross section	up to 2.5 mm^2
mounting	Din rail
dimensions	1TE, 98mm x 17.5mm x 56mm

dimensions

connection plan
1 channel

connection plan
2 channel

connection plan
3 channel

typical installation 3channel 0-10V to DALI converter

Installation

- Supply: 12V-24V DC (e.g.. 24V/300mA
  Art.Nr.: 24166012-24HS)

- Galvanic isolation between DALI and
  0-10V input / supply

- The 0-10V input voltage has same
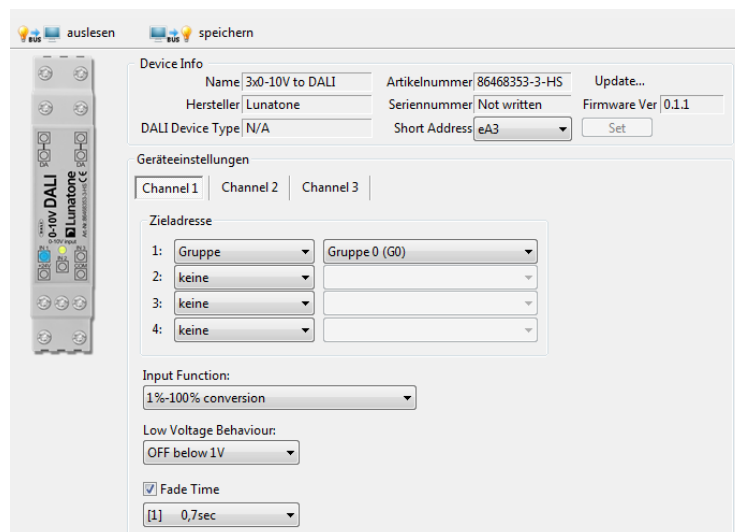 potential as the supply voltage

2018-08-09

- the connection to the DALI-line is

polarity free, the DALI-line is powered by an external DALI power supply

Default Settings and Configuration

- After connecting the device it is ready to use, dependent on the type different factory default settings apply:

Type	1 channel (86468353-1-HS)	2 channel (86468353-2-HS)	3 channel (86468353-3-HS)
Effective Range	Broadcast	channel1: G0 channel2: G1	channel1: G0 channel2: G1 channel3: G2
Dimming range	1%-100%		
Behaviour for input voltage below 1V	OFF		
Fade Time	0.7s		

- Changes on the default settings can be done with the help oft he DALI-Cockpit:

0-10V / DALI conversion

conversion characteristic:
The input voltage in the range of 1V-10V is converted into DALI dim levels.
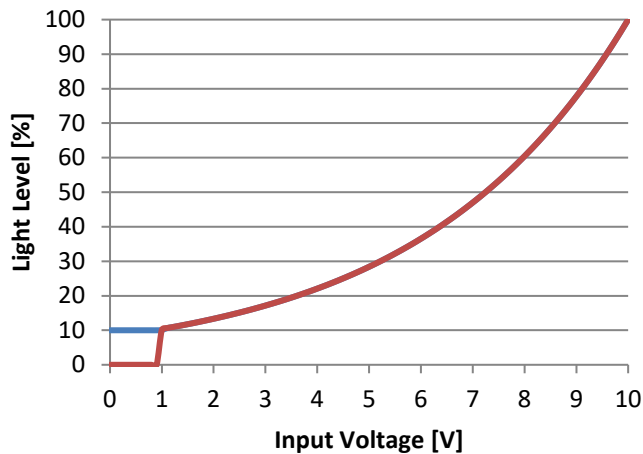
In the DALI-Cockpit the following parameters can be changed:

Light Level Range:
0.1%-100%, 1%-100% or 10%-100%

On/Off-Behaviour:
the behaviour below 1V input voltage:

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

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

Art. Nr.: 24166012-24HS, 24VDC/300mA power supply, dinrail, 1TE

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

Contact

Technical Support: support@jumitech.dk

Requests: salg@jumitech.dk

www.jumitech.dk

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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.