

DALI 1Ch LED Dimmer

Datasheet Control Gear

1-Channel LED Dimmer (CV)



Art. Nr. 89453826 (4A)

Art. Nr. 86459556 (8A)

Art. Nr. 86459572 (10A)

Art. Nr. 89453829 (16A)

DALI 1Ch LED Dimmer Control Gear

Overview

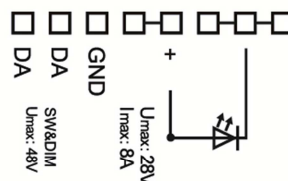
- 1 Channel LED Dimmer
- Suitable for constant voltage LED-modules
- dimming control via DALI or standard switch (SwitchDim-function integrated)
- The output is dimmable from 1% to 100% (upon request 0.1%)
- Supply voltage from 12V to 28V DC or 12V to 48V DC dependent on type
- Configuration via DALI-Cockpit software and DALI USB interface
- 3 types of housing
- Depending on product-type the maximal input current must not exceed 4A, 8A, 10A or 16A.

Specification, Characteristics

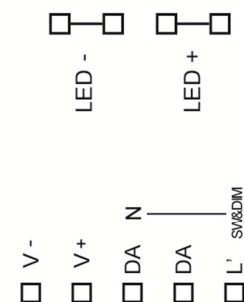
type	DALI 1Ch LED Dimmer			
article number	89453826	86459556	86459572	89453829
power supply	12VDC-28VDC		12V- 48VDC	
maximum input current	4A	8A	10A	16A
maximum output current	4A	8A	10A	16A
control input	DALI / SwitchDim			
number of DALI addresses	1			
ambient temperature	-20°C...+50°C		-20°C...+60°C	
protection class	IP20			
default state after power return	configurable via DALI			
max. connecting wire cross section	1.5 mm ²		2.5 mm ²	
geometry (L x W x H)	40mmx28mmx14mm	59mmx33mmx15mm	120mmx30mmx21mm	



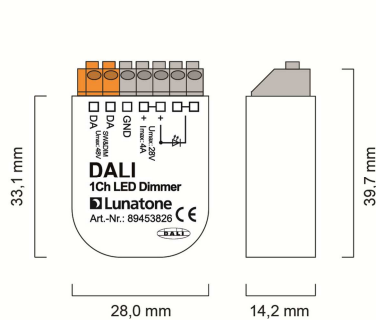
connection plan 4A



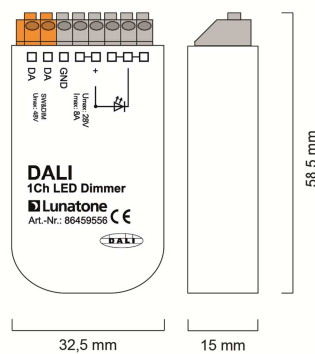
connection plan 8A



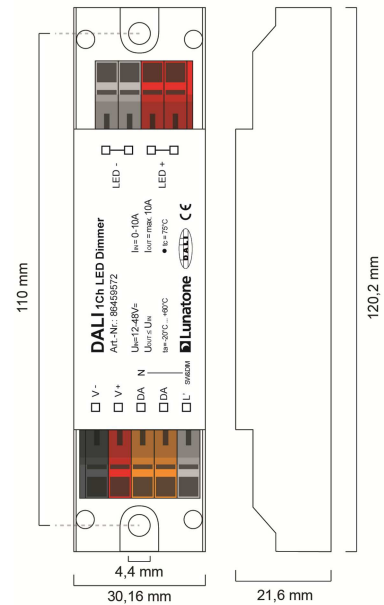
connection plan 10A and 16A



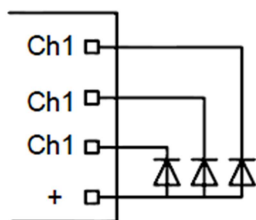
geometry 4A



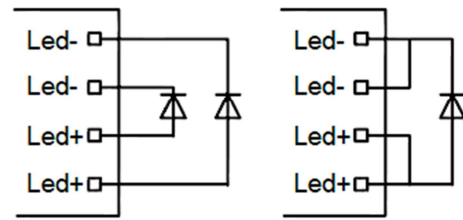
geometry 8A



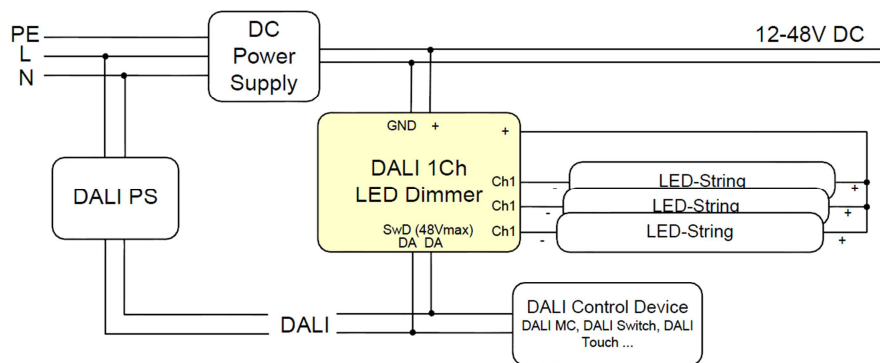
geometry 10A and 16A



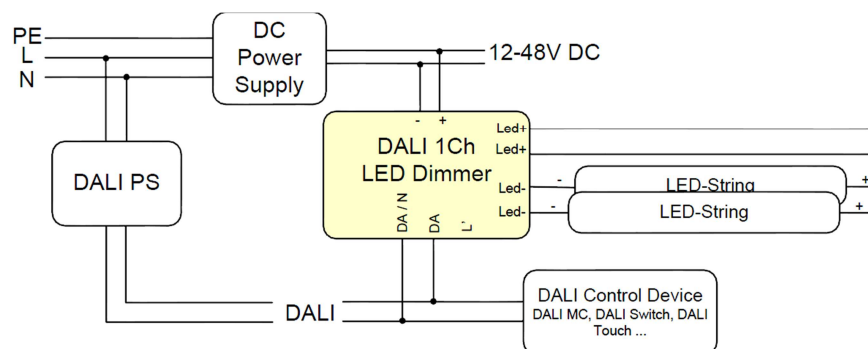
wiring plan example (8A)



wiring plan example (10A/16A)



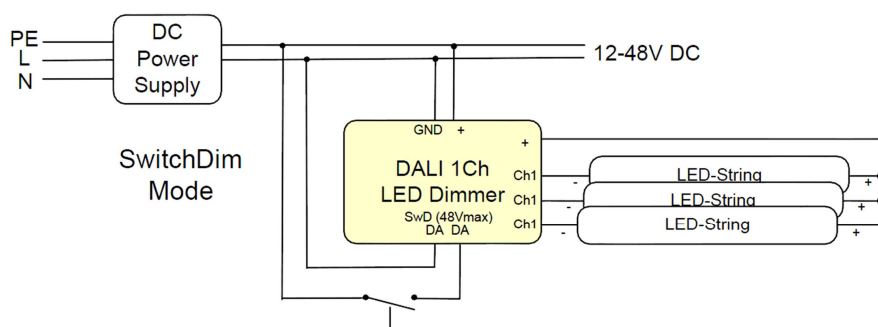
typical application DALI-Mode 4A/8A



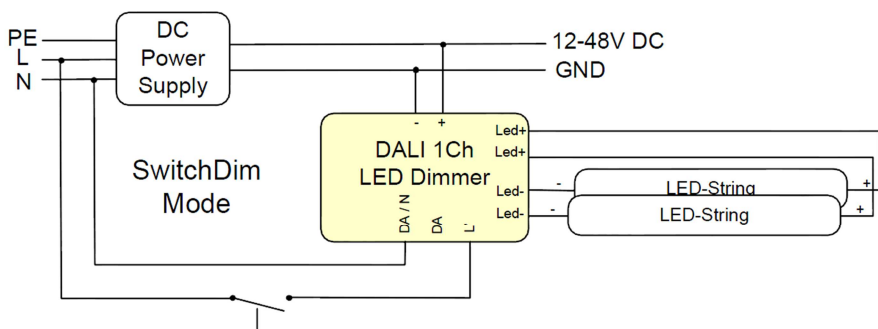
typical application DALI-Mode 10A/16A

DALI-Mode:

The device switches to DALI-mode automatically after a DALI message has been received.



Prinzipschaltbild SwitchDim 4A/8A



Prinzipschaltbild SwitchDim 10A/16A

Switch-Dim:

The device is in the Switch-Dim mode after power up.

U_{max} on SwD-input may not exceed 48VDC at 4A/8A-type!

At 10A and 16A types from before June 2015, at which the inputs L' and N are not available, the maximal voltage for SwitchDim is 48VDC as well.

SwitchDim:
Button pressed short (<500ms):
On / Off
Button pressed long (>500ms): Dim Up / Down

RECOMMENDATION: Care should be taken on keeping cable lengths between DC power supply and dimmer as well as between dimmer and luminaires (Led-Strings) as short as possible. This kind of installation will minimize the influence of voltage drops.

Purchase Information

ArtNr. 89453826: 1-Channel LED Dimmer, CV, max. input current 4A, 12V-28V DC, back box

ArtNr. 86459556: 1-Channel LED Dimmer, CV, max. input current 8A, 12V-28V DC, back box

ArtNr. 86459572: 1-Channel LED Dimmer, CV, max. input current 10A, 12V-48V DC, remote ceiling & built in

ArtNr. 89453829: 1-Channel LED Dimmer, CV, max. input current 16A, 12V-48V DC, remote ceiling & built in

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

Technical Support: support@lunatone.com

Requests: sales@lunatone.com

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.