Lunatone

DALI-2 4Ch RC

Datasheet

Control Gear

4-Channel Relay Control (DT7)

Art.Nr. 89453860-DE

Art.Nr. 89453860-HS

DALI-2 4Ch RC Control Gear

Overview

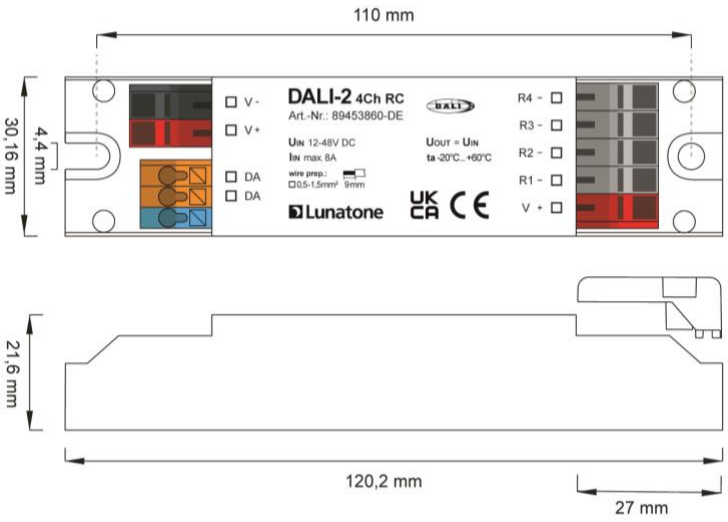
- 4 channel relay control
- For the control of switched ballast via DALI
- Suitable for circuit breakers and relays with coils-voltages of 12V to 48V DC
- 4 DALI adresses, one for each channel (Device Type 7)
- configuration with DALI-Cockpit software tool and DALI USB-Interface
- 2 types of housing
- maximum input current 8A
- maximum output current of 2A per channel

Specification, Characteristics

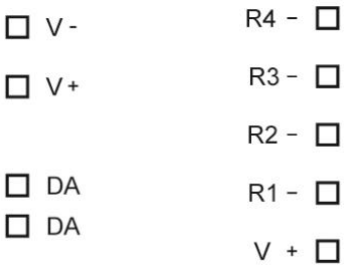
type	**DALI-2 4Ch RC**	**DALI-2 4Ch RC**
article number	89453860-DE	89453860-HS

electrical data:	
supply voltage	12VDC-48VDC (=relay coil voltage)
maximum input current	8A
max. output current per channel	2A
control input	DALI
number of DALI addresses	4
typ. current consumption DALI	2mA

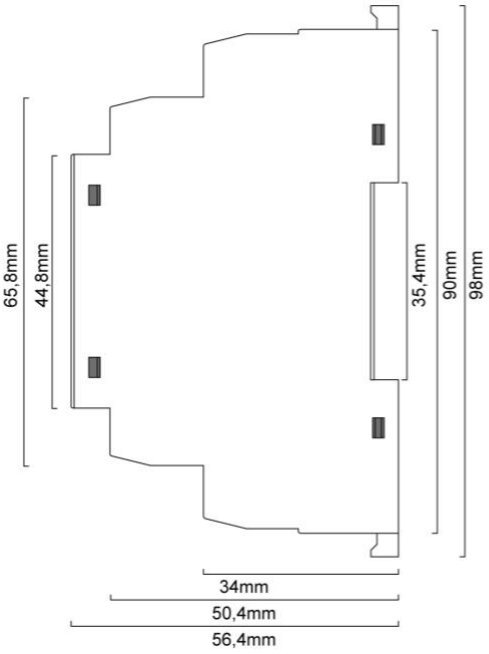
technical data:		
power on behaviour	programmable	
storing/transportation temperature	-20°C…+75°C	
operational ambient temperature	-20°C…+60°C	
protection class	IP20	
max. connecting wire cross section	2.5 mm^2	
geometry	120mm x 30mm x 22mm	98mm x 17.5mm x 56mm
type of housing	remote ceiling	din rail



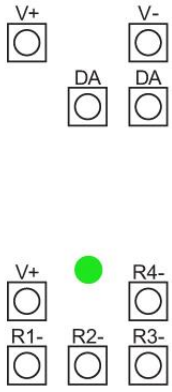
geometry remote ceiling: 89453860-DE



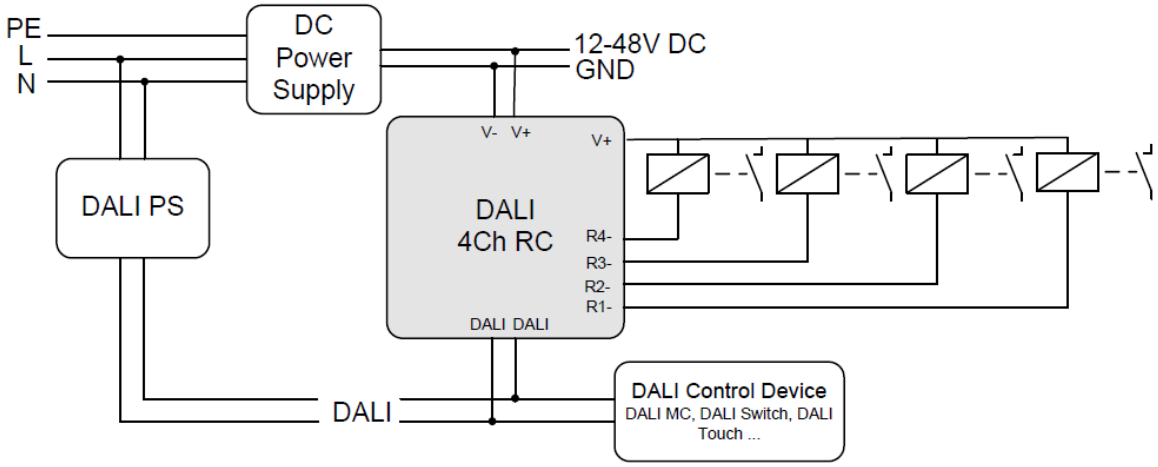
connection plan remote ceiling: 89453860-DE



geometry din rail: 89453860-HS



connection plan din rail: 89453860-HS



typical application

Function

The DALI 4Ch RC offers 4 independent channels, of which each channel can be individually controlled via DALI. Hence loads can be switched on and off. Since each channel provides an integrated free-wheeling circuit, the module is suitable for inductive loads like coils of relays and circuit breakers.

Each channel of the DALI 4Ch RC acts like a standard DALI ballast for non-dimmable loads. It is based on the DALI specification for control gear (IEC 62386-102) and the device type 7 extension (IEC 62386-208). Therefore the switching characteristic is determined by the comparison of the virtual direct arc power level (VDAP) with 4 thresholds.

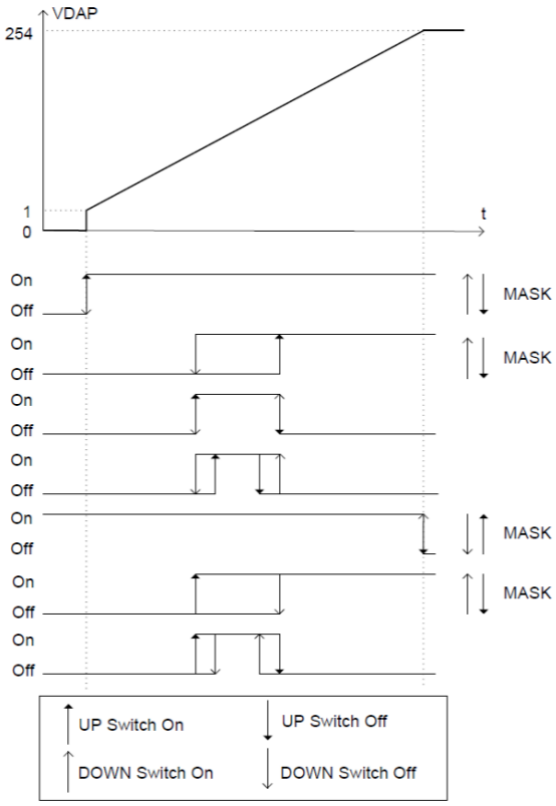
The virtual dim level (VDAP) is like the dim level of DALI-ballasts and is therefore limited by MINLEVEL and MAXLEVEL and influenced by fade-time and fade-rate.

For each dim direction 2 thresholds can be defined. They are compared with the virtual dim level and as a result the output is switched on or off:

virtual dim direction	comparison of virtual dim level and thresholds	output
UP	VDAP>= UP SwitchOn Threshold	ON
UP	VDAP>= UP SwitchOff Threshold	OFF
DOWN	VDAP<= DOWN SwitchOn Threshold	ON
DOWN	VDAP<= DOWN SwitchOff Threshold	OFF

If a threshold value is set to “MASK” the threshold is inactive and does not influence the relay output.

Find some examples of switching characteristics below:



With the help of the fade time switch on and switch off delays can be realized.

Purchase Information

Art. Nr. 89453860-HS: DALI-2 4Ch RC, Relay control modul with 4 independent channels, 4 DALI addresses (DT7), din rail mounting

Art. Nr. 89453860-DE: DALI-2 4Ch RC, Relay control modul with 4 independent channels, 4 DALI addresses (DT7), remote ceiling

Additional Information and Equipment

DALI-Cockpit – free configuration tool from Lunatone for DALI systems
https://www.lunatone.com/en/product/dali-cockpit/

Lunatone DALI products
https://www.lunatone.com/en

Lunatone datasheets and manuals
https://www.lunatone.com/en/downloads-a- z/

Contact

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Requests: sales@lunatone.com

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.

