



DALI 4Ch RC

Datasheet

Control Gear

4-Channel Relay Control (DT7)

Art.Nr. 89453860-DE

Art.Nr. 89453860-HS

DALI 4Ch RC Control Gear

Overview

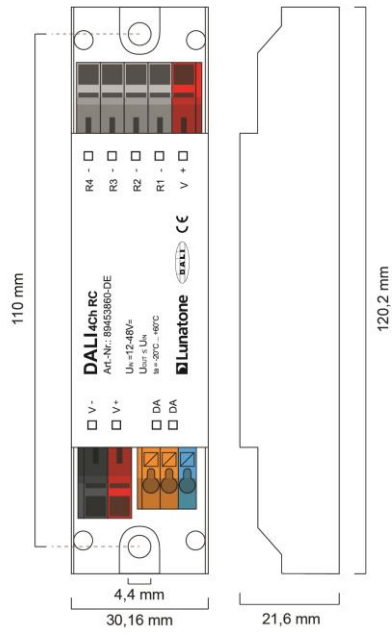
- 4 channel relay control
- For the control of switched ballast via DALI
- Suitable for circuit breakers and relays with coils-voltages of 12V to 48V DC
- 4 DALI addresses, one for each channel (Device Type 7)
- configuration with DALI-Cockpit software tool and DALI USB-Interface
- 2 types of housing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

Specification, Characteristics

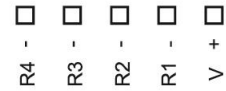
| type | DALI 4Ch RC | |
|----------------|-------------|-------------|
| article number | 89453860-DE | 89453860-HS |

| 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 |

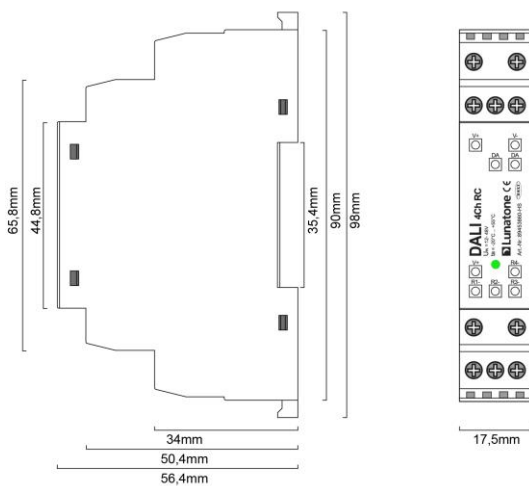
| technical data: | | |
|------------------------------------|---------------------|----------------------|
| power on behaviour | programmable | |
| storing/transportation temperature | -20°C...+75°C | |
| operational ambient temperature | -20°C...+60°C | |
| protection class | IP20 | |
| max. connecting 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



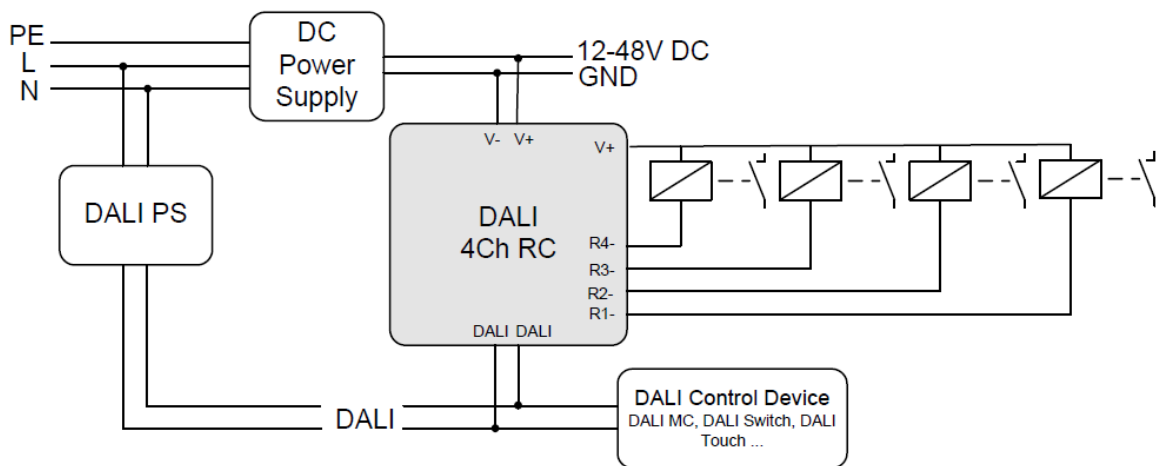
connection plan remote ceiling



geometry din rail



connection plan din rail



typical structure

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.

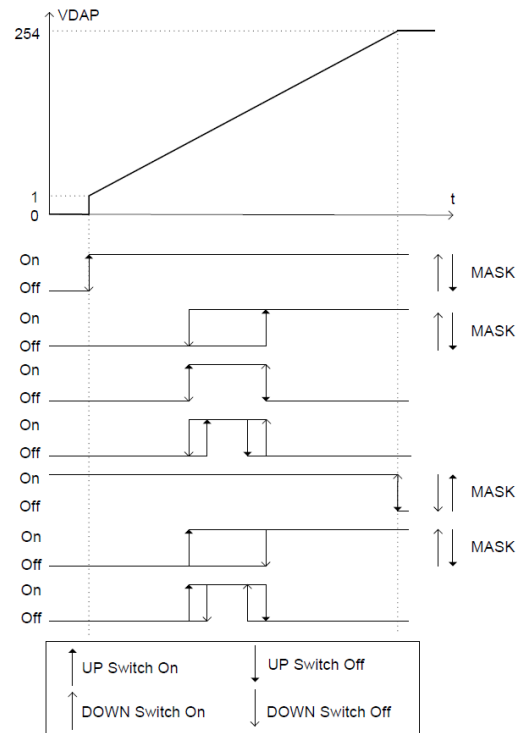
The virtual dim level (VDAP) is like the dim level of DALI-ballasts and is therefore limited by MINLEVEL and MAXLEVEL and influenced by fade-time and fade-rate.

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 | $VDAP \geq \text{UP SwitchOn Threshold}$ | ON |
| UP | $VDAP \geq \text{UP SwitchOff Threshold}$ | OFF |
| DOWN | $VDAP \leq \text{DOWN SwitchOn Threshold}$ | ON |
| DOWN | $VDAP \leq \text{DOWN SwitchOff Threshold}$ | 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 4Ch RC, Relay control modul with 4 independent channels, 4 DALI addresses (DT7), din rail mounting

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

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: alg@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.