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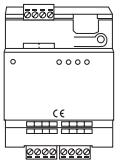
Schneider Electric

DALI Power supply DR-N 140

Operating instructions



MTN887131

For your safety

DANGER

Risk of fatal injury from electrical current.
All work on the device should only be carried out by trained and skilled electricians. Observe the country-specific regulations.

Getting to know the power supply

The DALI power supply DR-N 140 (referred to in the following as the **power supply**) provides the power for the DALI lines and 24V DC for other devices such as the DALI gateway MTN887271.

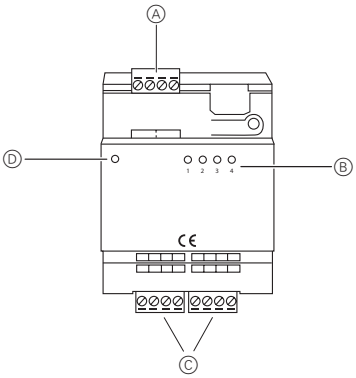
Depending on the energy consumption of the connected DALI loads up to 2 DALI output channels can be connected in parallel.

The power supply is short circuit and overload-proof on the output side, and has a voltage and current limiter. Excessive output current, overloads and short-circuits are indicated by operational LEDs.

The power supply is to be installed on a DIN rail TH35 according to EN-60715 and has the following features.

- 1 output DC 24 V (max 4W)
- 4 outputs for the supply of DALI lines (DC 16 V / 116mA per output)
- LED per output for status and failure indication
- Pluggable screw-type terminals for a quick and easy mounting

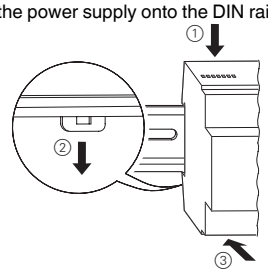
Connections, displays and operating elements



Ⓐ Output voltage DC 24 V
Ⓑ DALI LED per line
Ⓒ DALI lines 1-4 (upper row)
Supply voltage AC 230 V (lower row)
Ⓓ 24 V LED

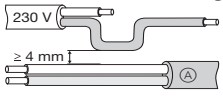
Mounting the power supply

① Place the power supply onto the DIN rail.



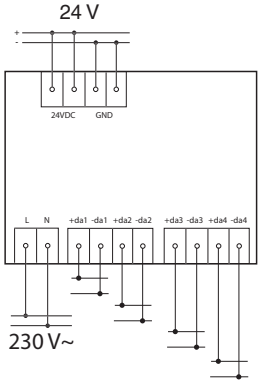
CAUTION

Risk of fatal injury from electrical current. The device could become damaged. Safety clearance must be guaranteed in accordance with IEC 60664-1. There must be at least 4 mm between the individual cores of the 230 V supply cable and the 24V cable Ⓐ.



② Connect the supply voltage wires to the 230 V input.
③ Connect the load to the 24 V output.
④ Connect the DALI lines to the output 1-4.

For DALI installation instructions, please, see www.dali-ag.org.



⑤ Switch on the main voltage AC 230 V.

The LEDs signal the status of operation.

Status LED

24 V-LED

- **24 V-LED on**: 24 V DC is present
- **24 V-LED off and DALI-LEDs flashing**: short-circuit on the 24 V-output
- **All LEDs flashing:** overload on the 24 V-output

DALI-LEDs

- **On**: DALI power is present , no data transfer
- **Off**: short-circuit or overload on the DALI line
- **Intermittend flashing**: data transfer

Technical data

Power supply	AC 220/230 V, 50/60 Hz
24 V output	
Output voltage	DC 24 V (+/- 10 %)
Nominal current	170 mA
24 V Short-Circuit	
Detection	Switch-off after 100 ms
max. current	4,5 A
Re-Start	every 1.6 s
24 V Overload	
Current limitation	230mA at max. op. temp. 190mA at min. op. temp.
Reaction time	150-500 ms (depending on the level)
DALI outputs	
Number	4
DALI bus voltage	DC 16 V (11V-20 V, not SELV)
DALI output current	min. >0 mA, max. 116 mA per DALI linie 2x 232 mA at parallel connection of two outputs
Protective circuit	basic insulation to 230 V, protective insulation to 24 V
Connections	pluggable screw-type terminals 0,5 ... 2,5 mm^2
Operating temp.	0 °C ... +40 °C
Max. humidity	93 % relative humidity, no moisture condensation
Protection class:	IP 20
Dimensions	90 x 72 x 64 mm (HxWxD)
Device width:	4 pitch

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If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.

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