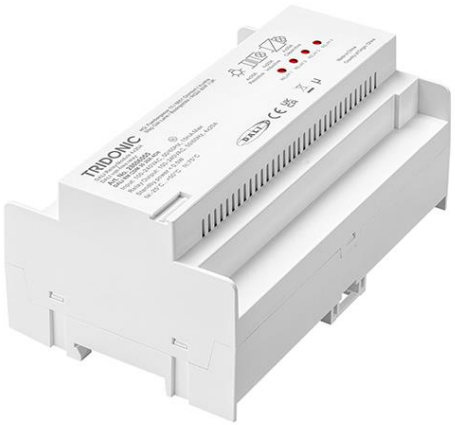
TRIDONIC

DALI RM CDM 30 20A 4CH

DALI-2 4 channel relay



Product description
_ DALI-2 Relay
_ Compatible with DALI and DALI-2 versions
_ Compliant with EN 62386-208
_ 4 channel actuator (switch) with DALI-2 input
_ Protected against DALI overvoltage
_ Suitable for switchboard mount on standard DIN rail
_ Mains-rated potential-free (dry-contact) relay output
_ Compliant DALI device type 7
_ 5 years guarantee (conditions at https://www.tridonic.com/en/int/services/manufacturer-guarantee-conditions)

Interfaces
_ DALI

Functions
_ Optimized for electronic loads with high inrush currents like LED drivers, which have short but very high peaks of in-rush currents
_ With zero-crossing switching for extended relay lifetime
_ Compliant with common DALI-2 controllers and gateways
_ DALI backwards compatible

Website
http://www.tridonic.com/28006055

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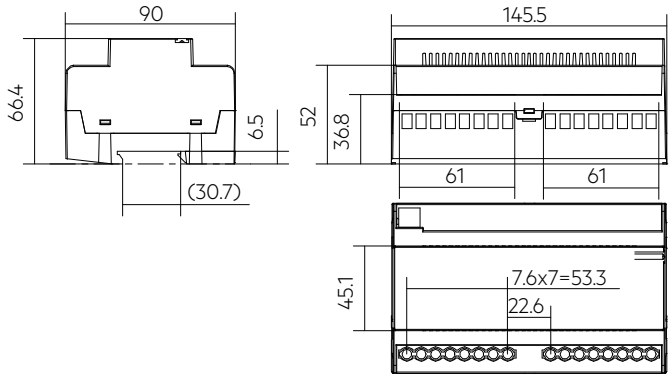


Ordering data

Type	Article number	Packaging, carton	Weight per pc.
DALI RM CDM 30 20A 4CH	**28006055**	20 pc(s).	0.401 kg

Technical data

Rated supply voltage	220 – 240 V
Mains frequency	50 / 60 Hz
Typ. power consumption on stand-by	< 0.5 W
Current consumption of DALI	3 mA
Input	DALI
Output	Potential free contact
Relay type	non-latching, normally open
Relay switching AC	250 V / 20 A
Relay switching cycles ①	100,000
Ambient temperature ta	-25 … +50 °C
tc	75 °C
Storage temperature ts	-40 … +85 °C
Humidity	10 … 85 % not condensed
Starting time	< 1 s
Type of protection	IP20
Protection class	Protection class II
Mounting	DIN rail mounting, 35 mm
Housing material	Polycarbonate
Housing colour	RAL 9016 (white)
Guarantee (conditions at www.tridonic.com)	5 Year(s)
Dimensions L x W x H	145.4 x 90 x 66.4 mm

Approval marks

Standards

EN 60669-2-1, EN 61000-3-2, EN 61000-3-3, EN 60669-1, EN 62386-101, EN 62386-102, EN 62386-208

① One cycle means close and open.

1. Standards

EN 60669-2-1
EN 61000-3-2
EN 61000-3-3
EN 60669-1
EN 62386-101
EN 62386-102
EN 62386-208

1.2 Glow wire test

according to EN 61347-2-11 passed for temperatures up to 650°C.

2. Common

- Loads that do not have a DALI input can be integrated in the DALI circuit. The loads can be switched on and off via DALI.

3. Installation

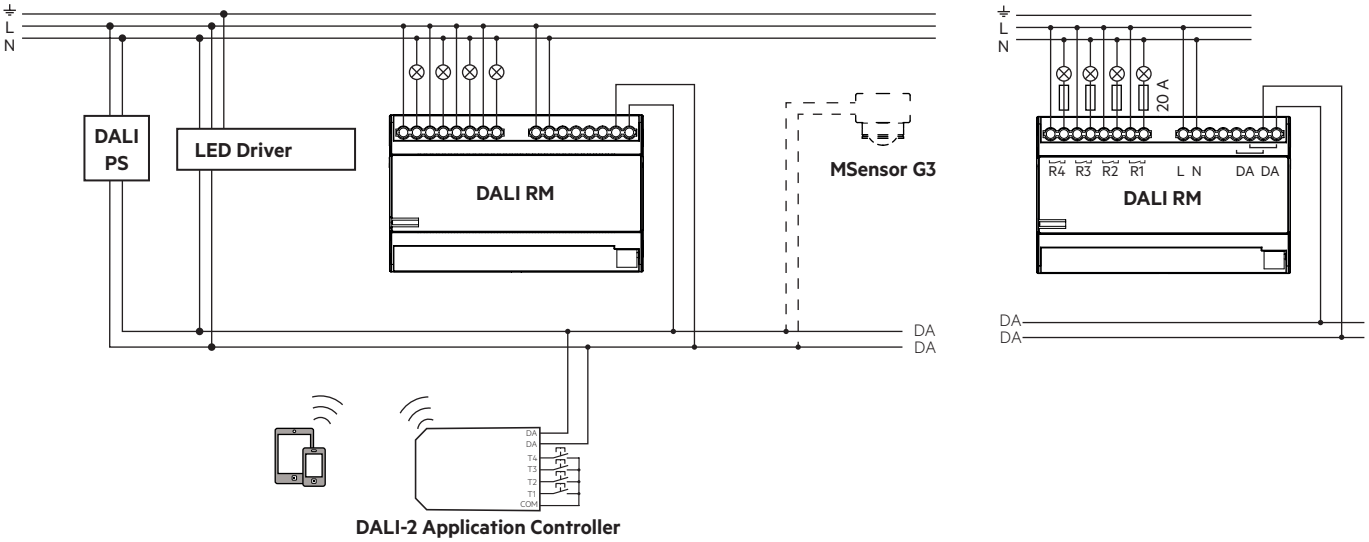
3.1 Safety instructions

- Do not connect the device to DC (direct current) voltage, as this will damage the device.
- Do not create a short circuit on the secondary side, as this will damage the device.
  It is recommended to connect the device with a residual current circuit breaker (RCD) or a circuit breaker with a rated value not higher than 20 A to the secondary side to protect the device in case of a short circuit.
- Installation of this device may only be carried out by specialist staff who have provided proof of their skills.
- The power supply must be switched off before handling the device.
- The relevant safety and accident prevention regulations must be observed.
- DALI signals are not SELV. Therefore the same procedures should be applied as working with mains voltage.

3.2 Area of application

The device may only:
- be used for the applications specified,
- for safe installation in dry, clean environment and
- be installed in such a way that access is only possible using a tool.

3.3 Connection diagrams



3.4 Installation

Mount the DALI relay on DIN rail inside a mains rated enclosure as shown in fig. 1.
To remove from DIN rail, release the clip mechanism with a flat blade screw driver, as per fig. 2.

Fig. 1

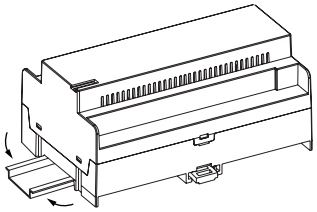
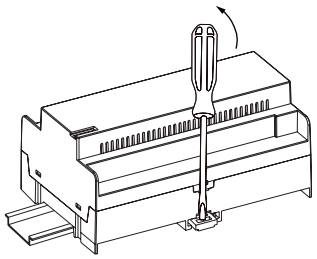
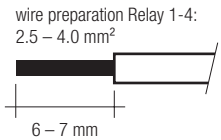


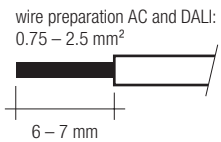
Fig. 2



3.5 Wiring type and cross section

The wiring can be solid wire or stranded wire with end sleeve.





3.6 Note for Application Controller

Device is developed according DALI Standard EN 62386-208 and is DALI device Type 7, control gear – Switching function.

3.7 Status LED‘s

There is a LED built in to indicate different status information to the user.

Event	Blinking sequence	LED Color
Relay closed	on	Red

4. Miscellaneous

4.1 Disposal of equipment

Return old devices in accordance with the WEEE directive to suitable recycling facilities.

4.2 Conditions of storage and use

Humidity: 10 % up to max. 85 %, not condensed

Storage temperature: -40 °C up to max. +85 °C

The devices have to be acclimatised to the specified temperature range (ta) before they can be operated.