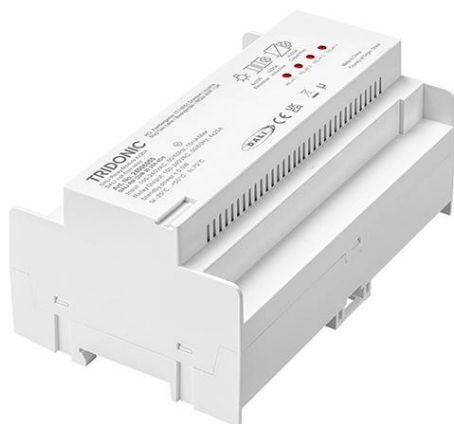


## DALI RM CDM 30 20A 4CH

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/manufacture-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

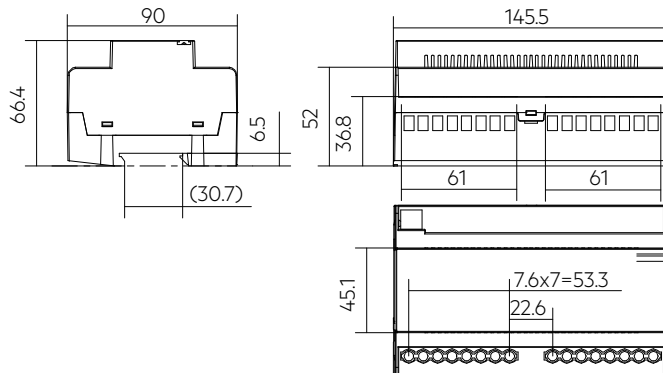
### Website

<http://www.tridonic.com/28006055>



**DALI RM CDM 30 20A 4CH**

DALI-2 4 channel relay

**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 <sup>①</sup>                                               | 100,000                     |
| Ambient temperature t <sub>a</sub>                                                | -25 ... +50 °C              |
| t <sub>c</sub>                                                                    | 75 °C                       |
| Storage temperature t <sub>s</sub>                                                | -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 <a href="http://www.tridonic.com">www.tridonic.com</a> ) | 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

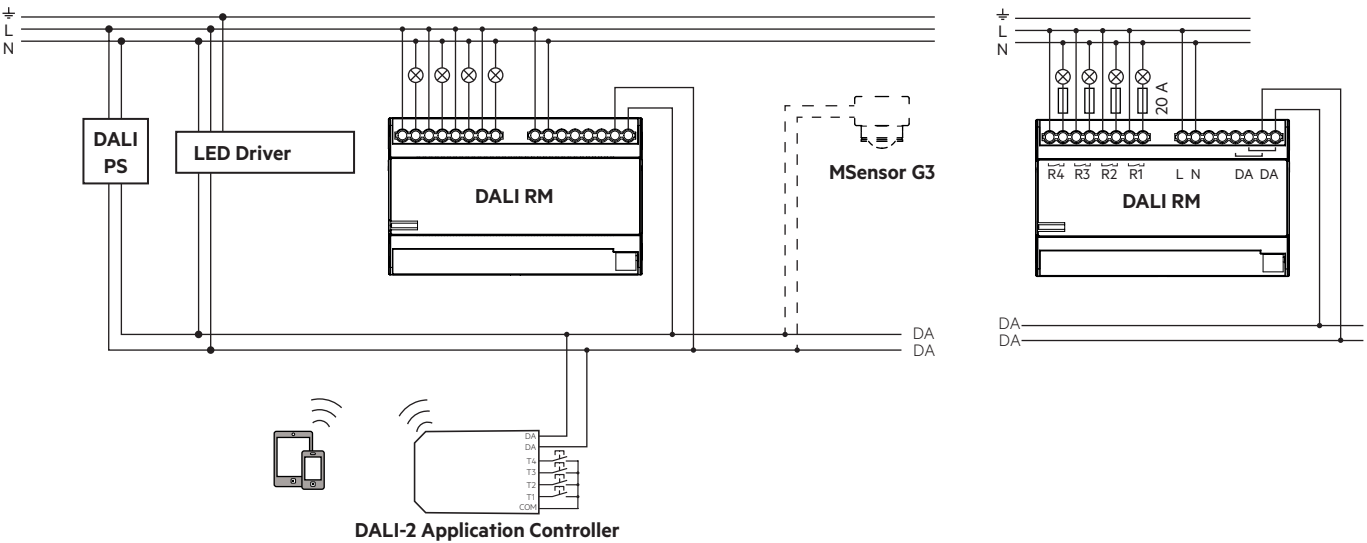
- Do not connect the device to DC (direct current) voltage, as this will damage the device.
- Do not create a short circuit on the secondary side, as this will damage the device.  
It is recommended to connect the device with a residual current circuit breaker (RCD) or a circuit breaker with a rated 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

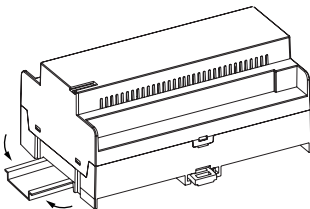
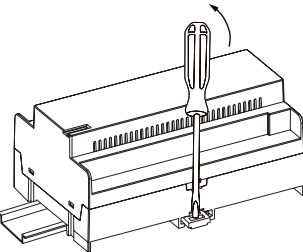


Fig. 2

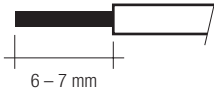


### 3.5 Wiring type and cross section

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

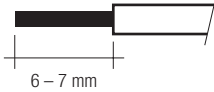
wire preparation Relay 1-4:

2.5 – 4.0 mm<sup>2</sup>



wire preparation AC and DALI:

0.75 – 2.5 mm<sup>2</sup>



### 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.