

**CRM20024TLD****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Similar to illustration

Individual relays within the CUBESERIES CRM

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 2 CO contact (12 A)
- With test buttons with colour coding (DC coil: blue)
- Integrated green status LED and free-wheeling diode
- With mechanical status indicator

**General ordering data**

|            |                                                                                                                                                                     |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | CUBESERIES, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC, Continuous current: 12 A, Plug-in connection, Test button available: Yes |
| Order No.  | <a href="#">3052870000</a>                                                                                                                                          |
| Type       | CRM20024TLD                                                                                                                                                         |
| GTIN (EAN) | 4099987022682                                                                                                                                                       |
| Qty.       | 10 items                                                                                                                                                            |

## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E223474

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 35.5 mm | Depth (inches)  | 1.3976 inch |
| Height     | 27.4 mm | Height (inches) | 1.0787 inch |
| Width      | 21 mm   | Width (inches)  | 0.8268 inch |
| Net weight | 35 g    |                 |             |

## Temperatures

|                       |                |                     |                                             |
|-----------------------|----------------|---------------------|---------------------------------------------|
| Storage temperature   | -40 °C...85 °C | Ambient temperature | -40 °C...70 °C                              |
| Operating temperature |                | Humidity            | 25 °C / 95 % rel. humidity, no condensation |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E223474 |
|-------------------------|---------|

## Control side

|                       |           |                    |                     |
|-----------------------|-----------|--------------------|---------------------|
| Rated control voltage | 24 V DC   | Rated current DC   | 37.8 mA             |
| Power rating          | 0.9 W     | Coil resistance    | 640 Ω ± 10 %        |
| Status indicator      | Green LED | Protective circuit | Free-wheeling diode |

## Load side

|                                         |                                      |                                         |                            |
|-----------------------------------------|--------------------------------------|-----------------------------------------|----------------------------|
| Rated switching voltage                 | 250 V AC                             | Continuous current                      | 12 A                       |
| Max. switching frequency at rated load  | 0.1 Hz                               | Max. switching voltage, AC              | 250 V                      |
| Max. switching voltage, DC              | 250 V                                | AC switching capacity (resistive), max. | 3000 VA                    |
| DC switching capacity (resistive), max. | 288 W @ 24 V                         | Switch-on delay                         | ≤ 20 ms                    |
| Switch-off delay                        | ≤ 20 ms                              | Contact type                            | 2 CO contact (AgNi)        |
| Mechanical service life                 | 2 x 10 <sup>7</sup> switching cycles | Min. switching power                    | 10 mA @ 12 V, 100 mA @ 5 V |

## General data

|                        |                                             |                                      |     |
|------------------------|---------------------------------------------|--------------------------------------|-----|
| Operating altitude     | ≤ 2000 m, above sea level                   | Test button available                | Yes |
| Version of test button | Lockable test button, Momentary test button | Mechanical switch position indicator | Yes |
| Colour                 | Transparent                                 | UL 94 flammability rating            | V-2 |

## Technical data

### Insulation coordination

|                                              |                  |                                                  |                   |
|----------------------------------------------|------------------|--------------------------------------------------|-------------------|
| Rated voltage                                | 250 V            | Pollution severity                               | 3                 |
| Surge voltage category                       | III              | Dielectric strength for control side - load side | 2.5 kVeff/ 1 min  |
| Dielectric strength of neighbouring contacts | 2.5 kVeff/ 1 min | Dielectric strength of open contact              | 1.5 kVeff /1 min. |
| Impulse withstand voltage                    | 4 kV (1.2/50 µs) | Protection degree                                | IP40              |

### Further details of approvals / standards

|                         |                 |                       |          |
|-------------------------|-----------------|-----------------------|----------|
| Certificate No. (CSA)   | 607178-80219312 | Certificate No. (VDE) | 40059812 |
| Certificate No. (cURus) | E223474         |                       |          |

### Connection data

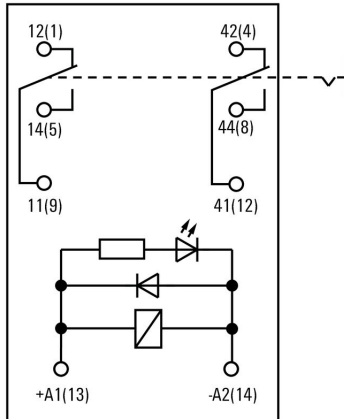
|                        |                    |                 |         |
|------------------------|--------------------|-----------------|---------|
| Wire connection method | Plug-in connection | Pitch in mm (P) | 5.00 mm |
|------------------------|--------------------|-----------------|---------|

### Classifications

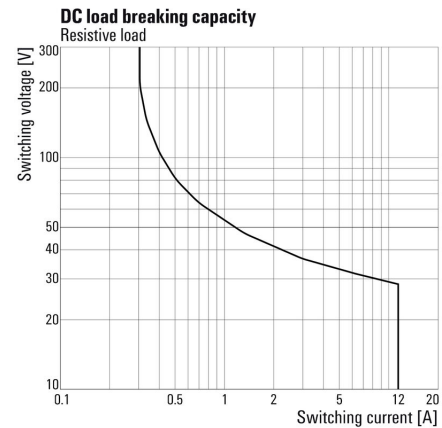
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

## Drawings

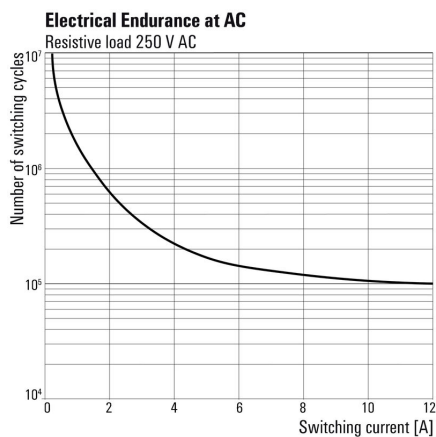
### Connection diagram



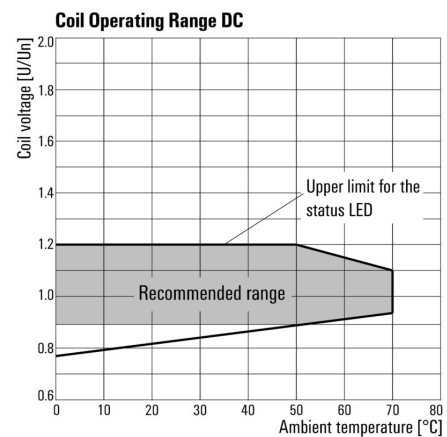
### Graph



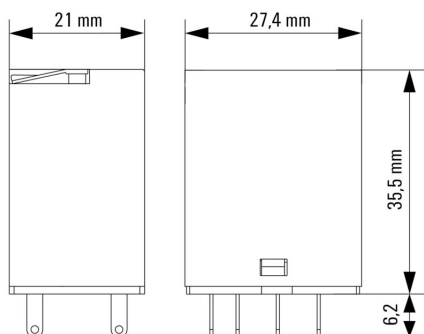
### Graph



### Graph



### Dimensional drawing



**Miscellaneous****Type code CUBESERIES relay versions**

Type codes

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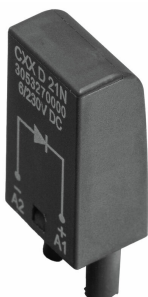
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## Accessories

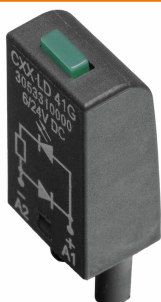
## Protection modules



## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | CXX D 21N                  | Version                                                           |
| Order No.  | <a href="#">3053270000</a> | CUBESERIES, Free-wheeling diode, Rated control voltage: 6...230 V |
| GTIN (EAN) | 4099987023092              | DC, Plug-in connection                                            |
| Qty.       | 20 ST                      |                                                                   |

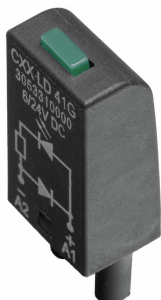
## LED and free-wheel diode



## General ordering data

|            |                            |                                                                                                     |
|------------|----------------------------|-----------------------------------------------------------------------------------------------------|
| Type       | CXX LD 41G                 | Version                                                                                             |
| Order No.  | <a href="#">3053310000</a> | CUBESERIES, LED module with freewheel diode, Rated control voltage: 6...24 V DC, Plug-in connection |
| GTIN (EAN) | 4099987023115              |                                                                                                     |
| Qty.       | 20 ST                      |                                                                                                     |
| Type       | CXX LD 41R                 | Version                                                                                             |
| Order No.  | <a href="#">3053290000</a> | CUBESERIES, LED module with freewheel diode, Rated control voltage: 6...24 V DC, Plug-in connection |
| GTIN (EAN) | 4099987023108              |                                                                                                     |
| Qty.       | 20 ST                      |                                                                                                     |

## LED and free-wheeling diode



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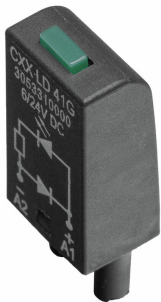
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## Accessories

## General ordering data

|            |                            |                                                            |
|------------|----------------------------|------------------------------------------------------------|
| Type       | CXX LD 42G                 | Version                                                    |
| Order No.  | <a href="#">3053340000</a> | CUBESERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4099987023139              | voltage: 24...60 V DC, Plug-in connection                  |
| Qty.       | 20 ST                      |                                                            |

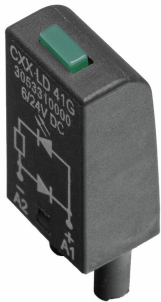
## LED and free-wheel diode



## General ordering data

|            |                            |                                                            |
|------------|----------------------------|------------------------------------------------------------|
| Type       | CXX LD 42R                 | Version                                                    |
| Order No.  | <a href="#">3053320000</a> | CUBESERIES, LED module with freewheel diode, Rated control |
| GTIN (EAN) | 4099987023122              | voltage: 24...60 V DC, Plug-in connection                  |
| Qty.       | 20 ST                      |                                                            |

## LED



## General ordering data

|            |                            |                                                                                 |
|------------|----------------------------|---------------------------------------------------------------------------------|
| Type       | CXX L 61G                  | Version                                                                         |
| Order No.  | <a href="#">3053420000</a> | CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection  |
| GTIN (EAN) | 4099987023207              |                                                                                 |
| Qty.       | 20 ST                      |                                                                                 |
| Type       | CXX L 61R                  | Version                                                                         |
| Order No.  | <a href="#">3053410000</a> | CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection  |
| GTIN (EAN) | 4099987023191              |                                                                                 |
| Qty.       | 20 ST                      |                                                                                 |
| Type       | CXX L 62G                  | Version                                                                         |
| Order No.  | <a href="#">3053440000</a> | CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection |
| GTIN (EAN) | 4099987023221              |                                                                                 |
| Qty.       | 20 ST                      |                                                                                 |
| Type       | CXX L 62R                  | Version                                                                         |
| Order No.  | <a href="#">3053430000</a> | CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection |
| GTIN (EAN) | 4099987023214              |                                                                                 |
| Qty.       | 20 ST                      |                                                                                 |

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## Accessories

## Relay sockets



Relay sockets for the CUBESERIES CRM relays

- 4 CO output version for 2 CO and 4 CO relays
- Screw and PUSH IN connection
- PUSH IN sockets with wide pushers for screwdrivers up to 1.0 x 5.5 mm blade size
- Various cross connection possibilities
- Matching accessories such as cross-connections, retaining clips and LED modules

## General ordering data

|            |                            |                                                              |
|------------|----------------------------|--------------------------------------------------------------|
| Type       | CSM P 4CO                  | Version                                                      |
| Order No.  | <a href="#">3053140000</a> | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4099987022965              | Continuous current: 8 A, PUSH IN                             |
| Qty.       | 10 ST                      |                                                              |
| Type       | CSM S 4CO                  | Version                                                      |
| Order No.  | <a href="#">3053160000</a> | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4099987022989              | Continuous current: 6 A, Screw connection                    |
| Qty.       | 10 ST                      |                                                              |

## Cross-connections



## General ordering data

|            |                            |                             |
|------------|----------------------------|-----------------------------|
| Type       | CXM CCP 2P BL              | Version                     |
| Order No.  | <a href="#">3053230000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023054              |                             |
| Qty.       | 20 ST                      |                             |
| Type       | CXM CCP 2P RD              | Version                     |
| Order No.  | <a href="#">3053220000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023047              |                             |
| Qty.       | 20 ST                      |                             |
| Type       | CXM CCP 8P BL              | Version                     |
| Order No.  | <a href="#">3053210000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023030              |                             |
| Qty.       | 10 ST                      |                             |
| Type       | CXM CCP 8P RD              | Version                     |
| Order No.  | <a href="#">3053200000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023023              |                             |
| Qty.       | 10 ST                      |                             |

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## Accessories

|            |                            |                             |
|------------|----------------------------|-----------------------------|
| Type       | CXM CCS 6P GY              | Version                     |
| Order No.  | <a href="#">3053180000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023009              |                             |
| Qty.       | 2 ST                       |                             |

## Retaining clips



Retaining clips for CUBESERIES CRI relays.

Plastic retaining clip:

- With relay ejector function
- Marking slots for MultiFit markers
- Fits on relays with and without test button

Metal retaining clip:

- For a strong hold of the relay in the socket

## General ordering data

|            |                            |                            |
|------------|----------------------------|----------------------------|
| Type       | CXM CLIP P                 | Version                    |
| Order No.  | <a href="#">3053240000</a> | CUBESERIES, Retaining clip |
| GTIN (EAN) | 4099987023061              |                            |
| Qty.       | 10 ST                      |                            |
| Type       | CXM CLIP M                 | Version                    |
| Order No.  | <a href="#">3053190000</a> | CUBESERIES, Retaining clip |
| GTIN (EAN) | 4099987023016              |                            |
| Qty.       | 25 ST                      |                            |

## Cross-connections



## General ordering data

|            |                            |                             |
|------------|----------------------------|-----------------------------|
| Type       | CXX JMP 2P BL              | Version                     |
| Order No.  | <a href="#">3053260000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023085              |                             |
| Qty.       | 30 ST                      |                             |
| Type       | CXX JMP 2P RD              | Version                     |
| Order No.  | <a href="#">3053250000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987023078              |                             |
| Qty.       | 30 ST                      |                             |

**Counterpart****Relay sockets**

Relay sockets for the CUBESERIES CRM relays

- 4 CO output version for 2 CO and 4 CO relays
- Screw and PUSH IN connection
- PUSH IN sockets with wide pushers for screwdrivers up to 1.0 x 5.5 mm blade size
- Various cross connection possibilities
- Matching accessories such as cross-connections, retaining clips and LED modules

**General ordering data**

|            |                            |                                                              |
|------------|----------------------------|--------------------------------------------------------------|
| Type       | CSM P 4CO                  | Version                                                      |
| Order No.  | <a href="#">3053140000</a> | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4099987022965              | Continuous current: 8 A, PUSH IN                             |
| Qty.       | 10 ST                      |                                                              |
| Type       | CSM S 4CO                  | Version                                                      |
| Order No.  | <a href="#">3053160000</a> | CUBESERIES, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4099987022989              | Continuous current: 6 A, Screw connection                    |
| Qty.       | 10 ST                      |                                                              |