

**CRI10048****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 CRI

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 1 CO contact (16 A)
- Without test button with coloured blind plugs ( AC coil: orange, DC coil: blue )

**General ordering data**

|            |                                                                                                                                                                    |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | CUBESERIES, Relay, Number of contacts: 1, CO contact AgNi, Rated control voltage: 48 V DC, Continuous current: 16 A, Plug-in connection, Test button available: No |
| Order No.  | <a href="#">3052300000</a>                                                                                                                                         |
| Type       | CRI10048                                                                                                                                                           |
| GTIN (EAN) | 4099987022132                                                                                                                                                      |
| Qty.       | 10 items                                                                                                                                                           |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E223474

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 15.7 mm | Depth (inches)  | 0.6181 inch |
| Height     | 29 mm   | Height (inches) | 1.1417 inch |
| Width      | 12.7 mm | Width (inches)  | 0.5 inch    |
| Net weight | 14 g    |                 |             |

## Temperatures

|                       |                |                     |                |
|-----------------------|----------------|---------------------|----------------|
| Storage temperature   | -40 °C...85 °C | Ambient temperature | -20 °C...70 °C |
| Operating temperature |                |                     |                |

## 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 | 48 V DC | Rated current DC | 8.3 mA        |
| Power rating          | 400 mW  | Coil resistance  | 5700 Ω ± 10 % |
| Status indicator      | No      |                  |               |

## Load side

|                                         |                            |                                         |                                      |
|-----------------------------------------|----------------------------|-----------------------------------------|--------------------------------------|
| Rated switching voltage                 | 250 V AC                   | Continuous current                      | 16 A                                 |
| Max. switching frequency at rated load  | 0.1 Hz                     | Max. switching voltage, AC              | 250 V                                |
| Max. switching voltage, DC              | 250 V                      | Inrush current                          | 24 A / 20 ms                         |
| AC switching capacity (resistive), max. | 4000 VA                    | DC switching capacity (resistive), max. | 384 W @ 24 V                         |
| Switch-on delay                         | ≤ 12 ms                    | Switch-off delay                        | ≤ 6 ms                               |
| Contact type                            | 1 CO contact (AgNi)        | Mechanical service life                 | 3 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 | No   |
| Mechanical switch position indicator | No                        | Colour                | blue |
| UL 94 flammability rating            | V-2                       |                       |      |

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## Technical data

### Insulation coordination

|                                                  |                  |                                                               |                 |
|--------------------------------------------------|------------------|---------------------------------------------------------------|-----------------|
| Rated voltage                                    | 250 V            | Pollution severity                                            | 3               |
| Surge voltage category                           | III              | Clearance and creepage distances for control side - load side | ≥ 10 mm         |
| Dielectric strength for control side - load side | 5 kVeff / 1 min  | Dielectric strength of open contact                           | 1 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. (cURus) | E223474 |
|-----------------------|-----------------|-------------------------|---------|

### Connection data

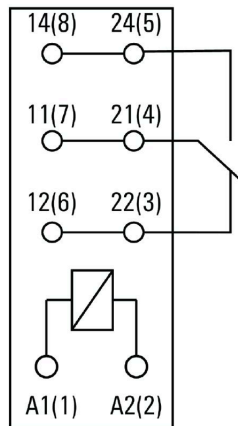
|                        |                    |                 |         |
|------------------------|--------------------|-----------------|---------|
| Wire connection method | Plug-in connection | Pitch in mm (P) | 5.00 mm |
|------------------------|--------------------|-----------------|---------|

### Classifications

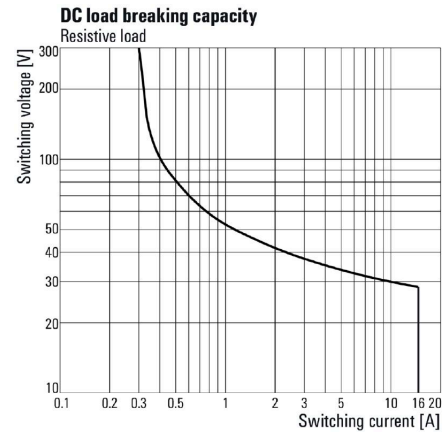
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 9.0  | 27-37-16-01 |
| ECLASS 9.1  | 27-37-16-01 | ECLASS 10.0 | 27-37-16-01 |
| ECLASS 11.0 | 27-37-16-01 | ECLASS 12.0 | 27-37-16-01 |
| ECLASS 13.0 | 27-37-16-01 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

## Drawings

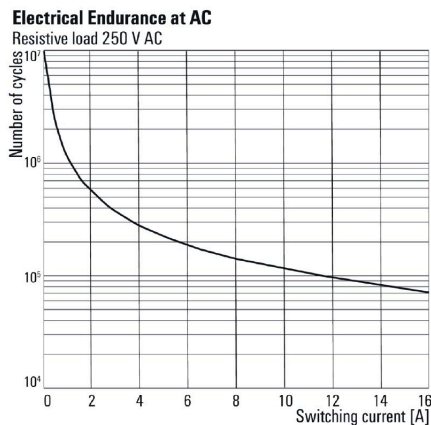
### Connection diagram



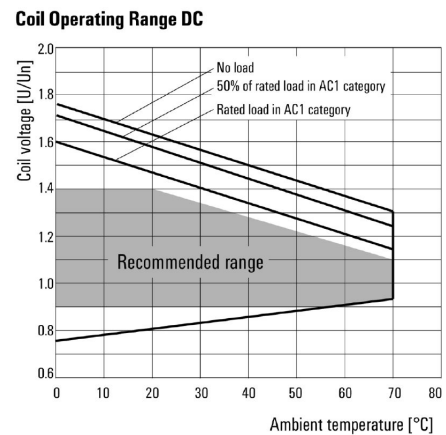
### Graph



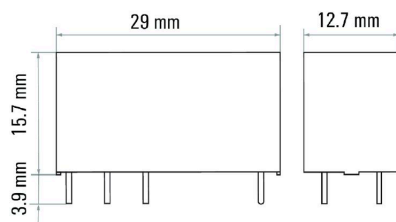
### Graph



### Graph

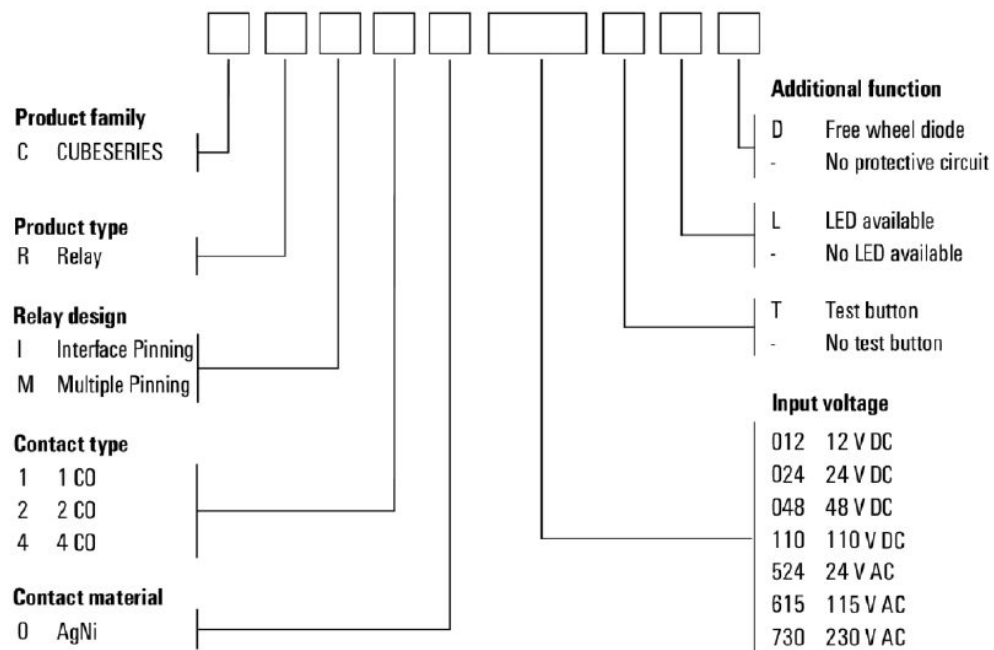


### Dimensional drawing



## Miscellaneous

## Type code CUBESERIES relay versions



Type codes

## CRI10048

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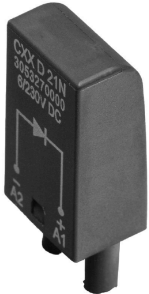
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## Accessories

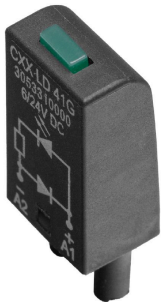
## Protection modules



## 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                      |                                                                   |

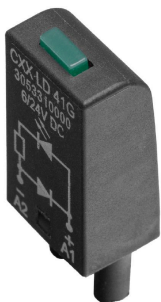
## LED and free-wheel diode



## General ordering data

|            |                            |                                                                                                      |
|------------|----------------------------|------------------------------------------------------------------------------------------------------|
| Type       | CXX LD 42G                 | Version                                                                                              |
| Order No.  | <a href="#">3053340000</a> | CUBESERIES, LED module with freewheel diode, Rated control voltage: 24...60 V DC, Plug-in connection |
| GTIN (EAN) | 4099987023139              |                                                                                                      |
| Qty.       | 20 ST                      |                                                                                                      |
| Type       | CXX LD 42R                 | Version                                                                                              |
| Order No.  | <a href="#">3053320000</a> | CUBESERIES, LED module with freewheel diode, Rated control voltage: 24...60 V DC, Plug-in connection |
| GTIN (EAN) | 4099987023122              |                                                                                                      |
| Qty.       | 20 ST                      |                                                                                                      |

## LED



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## Accessories

## General ordering data

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

## Relay sockets



Relay sockets for the CUBESERIES CRI relays

- 2 CO output version for 1 CO and 2 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       | CSI P 2CO                  | Version                                                      |
| Order No.  | <a href="#">3052570000</a> | CUBESERIES, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4099987022408              | Continuous current: 8 A, PUSH IN                             |
| Qty.       | 20 ST                      |                                                              |
| Type       | CSI S 2CO                  | Version                                                      |
| Order No.  | <a href="#">3052590000</a> | CUBESERIES, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4099987022422              | Continuous current: 8 A, Screw connection                    |
| Qty.       | 10 ST                      |                                                              |

## Cross-connections



Cross-connection for the sockets in the CUBESERIES CRI.

- Versions with red and blue coloured plastic for potential coding

Versions for PUSH IN sockets:

- 8-pin cross connection for A1 and A2 of the coil
- 2-pin jumper to connect to the neighbored sockets
- 2-pin jumper to connect the output channels within one socket

Version for screw sockets:

- 8-pin cross connection to connect to the neighbored sockets

## General ordering data

|            |                            |                             |
|------------|----------------------------|-----------------------------|
| Type       | CXI CCP 2P BL              | Version                     |
| Order No.  | <a href="#">3052660000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987022484              |                             |
| Qty.       | 20 ST                      |                             |

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## Accessories

|            |                            |                             |
|------------|----------------------------|-----------------------------|
| Type       | CXI CCP 2P RD              | Version                     |
| Order No.  | <a href="#">3052650000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987022477              |                             |
| Qty.       | 20 ST                      |                             |
| Type       | CXI CCP 8P BL              | Version                     |
| Order No.  | <a href="#">3052700000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987022507              |                             |
| Qty.       | 10 ST                      |                             |
| Type       | CXI CCP 8P RD              | Version                     |
| Order No.  | <a href="#">3052690000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987022491              |                             |
| Qty.       | 10 ST                      |                             |
| Type       | CXI CCS 8P GY              | Version                     |
| Order No.  | <a href="#">3052620000</a> | CUBESERIES, Cross-connector |
| GTIN (EAN) | 4099987022446              |                             |
| 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
- Individual versions for relays with and without test button

## General ordering data

|            |                            |                            |
|------------|----------------------------|----------------------------|
| Type       | CXI CLIP LM                | Version                    |
| Order No.  | <a href="#">3052630000</a> | CUBESERIES, Retaining clip |
| GTIN (EAN) | 4099987022453              |                            |
| Qty.       | 25 ST                      |                            |
| Type       | CXI CLIP P                 | Version                    |
| Order No.  | <a href="#">3052710000</a> | CUBESERIES, Retaining clip |
| GTIN (EAN) | 4099987022514              |                            |
| Qty.       | 10 ST                      |                            |

## Cross-connections





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|            |                            |                             |
|------------|----------------------------|-----------------------------|
| 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 CRI relays

- 2 CO output version for 1 CO and 2 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       | CSI P 2CO                  | Version                                                      |
| Order No.  | <a href="#">3052570000</a> | CUBESERIES, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4099987022408              | Continuous current: 8 A, PUSH IN                             |
| Qty.       | 20 ST                      |                                                              |
| Type       | CSI S 2CO                  | Version                                                      |
| Order No.  | <a href="#">3052590000</a> | CUBESERIES, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4099987022422              | Continuous current: 8 A, Screw connection                    |
| Qty.       | 10 ST                      |                                                              |