

**CRI20048****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

**General ordering data**

Version	CUBESERIES, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 48 V DC, Continuous current: 8 A, Plug-in connection, Test button available: No
Order No.	<a href="#">3052440000</a>
Type	CRI20048
GTIN (EAN)	4099987022286
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
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## 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	8 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	Inrush current	12 A / 20 ms
AC switching capacity (resistive), max.	2000 VA	DC switching capacity (resistive), max.	192 W @ 24 V
Switch-on delay	≤ 12 ms	Switch-off delay	≤ 6 ms
Contact type	2 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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### 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 / 1min	Dielectric strength of neighbouring contacts	2.5 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
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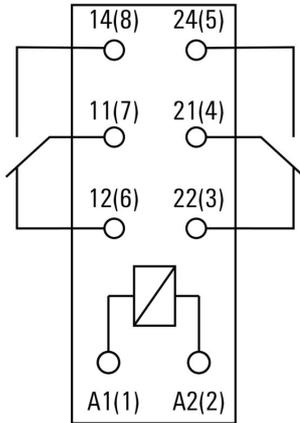
### Connection data

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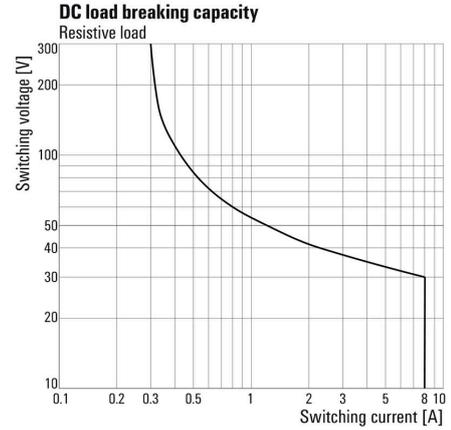
### Classifications

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		

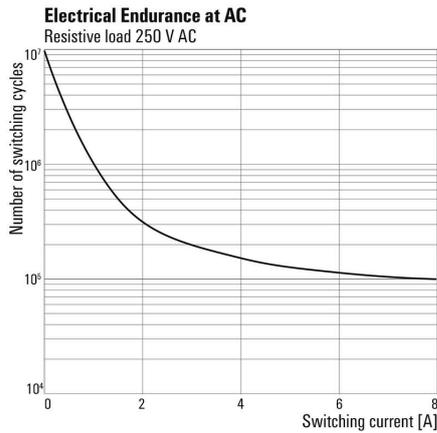
Connection diagram



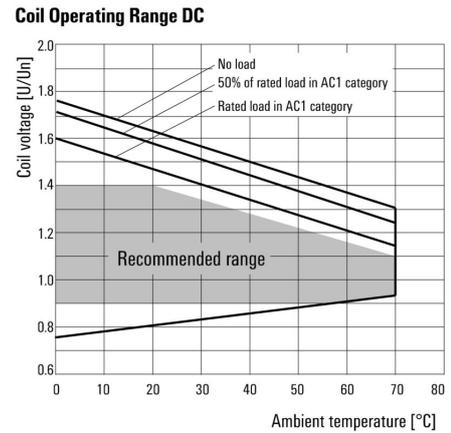
Graph



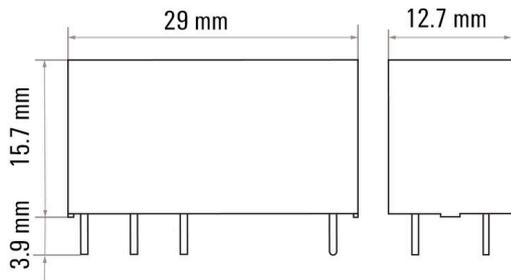
Graph



Graph

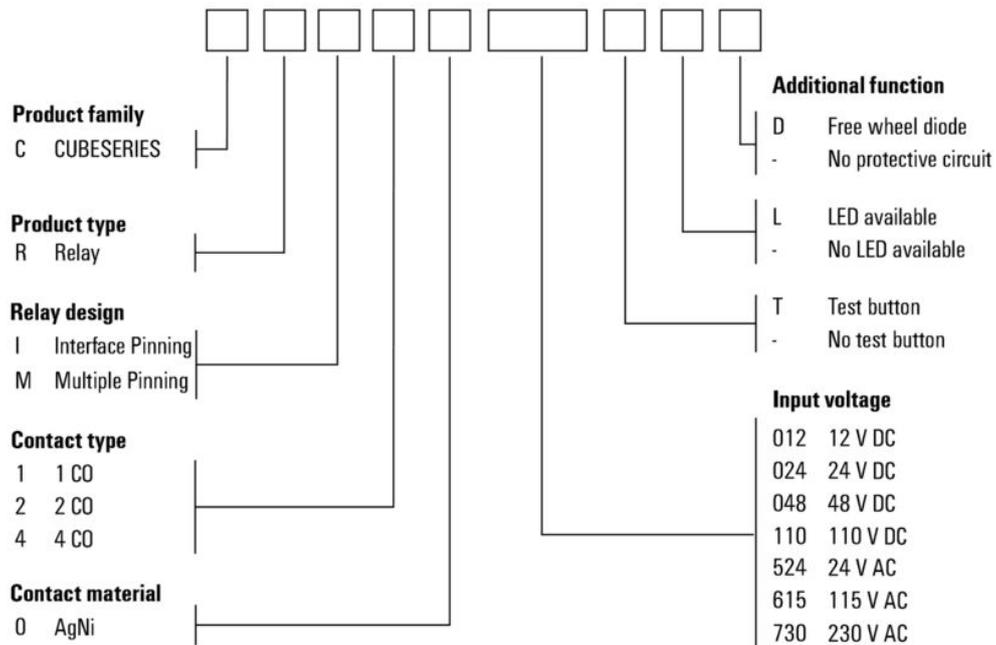


Dimensional drawing



Miscellaneous

**Type code CUBESERIES relay versions**



Type codes

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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-wheeling 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		

### 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 voltage: 24...60 V DC, Plug-in connection	
GTIN (EAN)	4099987023122		
Qty.	20 ST		

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## Accessories

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### LED



#### 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		

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## Accessories

## 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	
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	

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## Accessories

Type	CXI CLIP P	Version
Order No.	<a href="#">3052710000</a>	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022514	
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	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	

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## Counterpart

### Relay sockets



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- 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		