

**CRI20110T**
**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 with test button  
 Individual relays within the CUBESERIES CRI

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 2 CO contacts (8A)
- With test buttons with colour coding (AC coil: orange, DC coil: blue)
- With mechanical status indicator

**General ordering data**

Version	CUBESERIES, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 110 V DC, Continuous current: 8 A, Plug-in connection, Test button available: Yes
Order No.	<a href="#">3052530000</a>
Type	CRI20110T
GTIN (EAN)	4099987022361
Qty.	10 items

## CRI20110T

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E223474

## Dimensions and weights

Depth	25.5 mm	Depth (inches)	1.0039 inch
Height	29 mm	Height (inches)	1.1417 inch
Width	13 mm	Width (inches)	0.5118 inch
Net weight	15 g		

## Temperatures

Storage temperature	-40 °C...70 °C	Ambient temperature	-40 °C...70 °C
Operating temperature		Humidity	35...85 % RH (at ambient temperature)

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7cl
REACH SVHC	No SVHC above 0.1 wt%

## Rated data UL

Certificate No. (cURus) E223474

## Control side

Rated control voltage	110 V DC	Rated current DC	3.8 mA
Power rating	400 mW	Coil resistance	25200 Ω ± 15 %
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.	200 VA	DC switching capacity (resistive), max.	192 W @ 24 V
Switch-on delay	≤ 15 ms	Switch-off delay	≤ 8 ms
Contact type	2 CO contact (AgNi)	Mechanical service life	5 x 10 <sup>6</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	Insulating material group	IIIa
Clearance and creepage distances for control side - load side	≥ 8 mm	Dielectric strength for control side - load side	5 kVeff / 1 min
Dielectric strength of neighbouring contacts	2.5 kVeff / 1 Min.	Dielectric strength of open contact	1 kVeff / 1 min
Impulse withstand voltage	6 kV (1.2/50 µs)	Impulse withstand voltage at neighbouring contacts	4 kV (1.2/50 µs)

**Further details of approvals / standards**

Certificate No. (CSA)	607226-80220633	Certificate No. (VDE)	40057912
Certificate No. (cURus)	E223474		

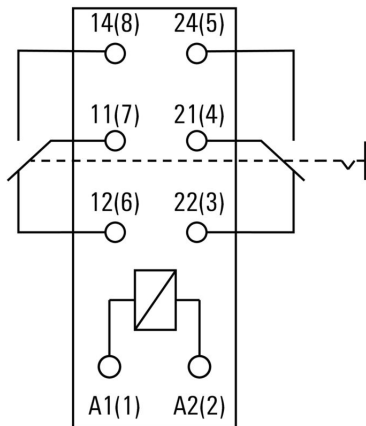
**Connection data**

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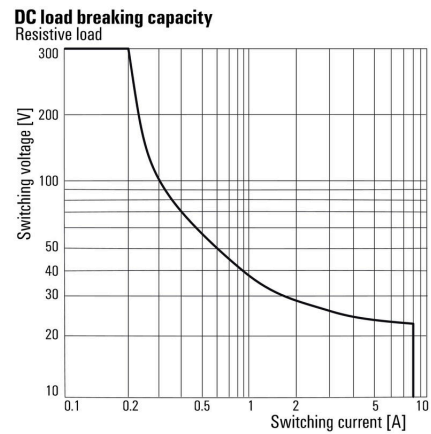
**Classifications**

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 43G	Version	
Order No.	<a href="#">3053360000</a>	CUBESERIES, LED module with freewheel diode, Rated control	
GTIN (EAN)	4099987023153	voltage: 110...230 V DC, Plug-in connection	
Qty.	20 ST		

## LED and free-wheel diode



## General ordering data

Type	CXX LD 43R	Version	
Order No.	<a href="#">3053350000</a>	CUBESERIES, LED module with freewheel diode, Rated control	
GTIN (EAN)	4099987023146	voltage: 110...230 V DC, Plug-in connection	
Qty.	20 ST		

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## Accessories

## LED



## General ordering data

Type	CXX L 63G	Version	
Order No.	<a href="#">3053460000</a>	CUBESERIES, LED module, Rated control voltage: 110...230 V UC,	
GTIN (EAN)	4099987023245	Plug-in connection	
Qty.	20 ST		
Type	CXX L 63R	Version	
Order No.	<a href="#">3053450000</a>	CUBESERIES, LED module, Rated control voltage: 110...230 V UC,	
GTIN (EAN)	4099987023238	Plug-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 P	Version
Order No.	<a href="#">3052710000</a>	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022514	
Qty.	10 ST	

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**Accessories**

Type	CXI CLIP HM	Version
Order No.	<a href="#">3052640000</a>	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022460	
Qty.	10 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	

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## Counterpart

### Relay sockets



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### 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		