

CRI20012T

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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: 12 V DC, Continuous current: 8 A, Plug-in connection, Test button available: Yes
Order No.	3052500000
Type	CRI20012T
GTIN (EAN)	4099987022330
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	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	12 V DC	Rated current DC	33.3 mA
Power rating	400 mW	Coil resistance	360 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	≤ 15 ms	Switch-off delay	≤ 8 ms
Contact type	2 CO contact (AgNi)	Mechanical service life	5 x 10 ⁶ 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

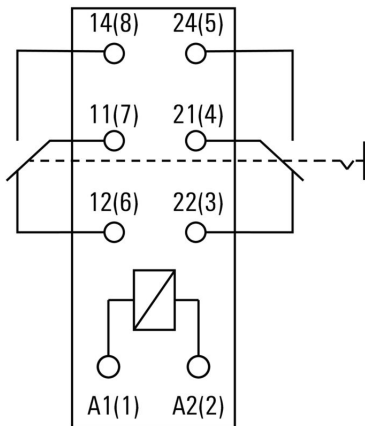
Wire connection method	Plug-in connection	Pitch in mm (P)	5.00 mm
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Classifications

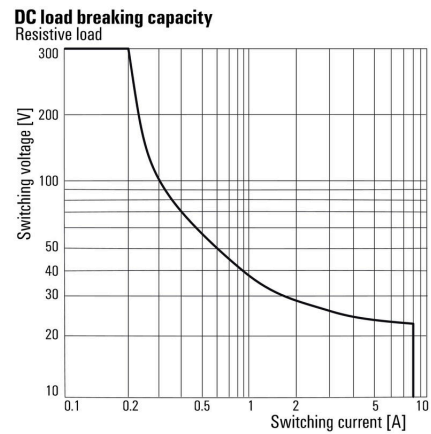
ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

Drawings

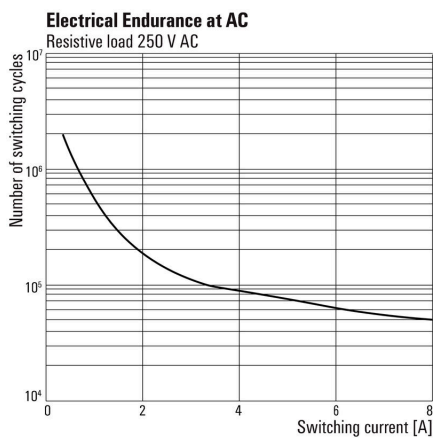
Connection diagram



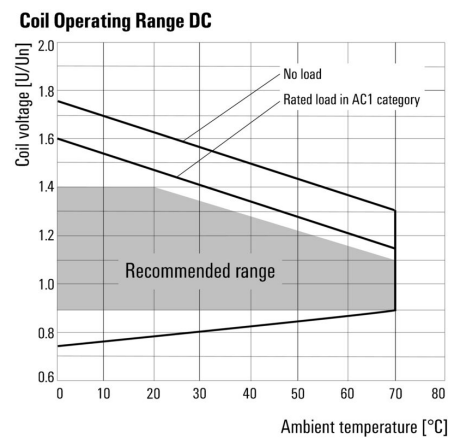
Graph



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.	3053270000	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.	3053310000	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.	3053290000	CUBESERIES, LED module with freewheel diode, Rated control voltage: 6...24 V DC, Plug-in connection	
GTIN (EAN)	4099987023108		
Qty.	20 ST		

LED



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Accessories

General ordering data

Type	CXX L 61G	Version	
Order No.	3053420000	Version	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.	3053410000	Version	CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection
GTIN (EAN)	4099987023191		
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.	3052570000	Version	CUBESERIES, Relay socket, Number of contacts: 2, CO contact, Continuous current: 8 A, PUSH IN
GTIN (EAN)	4099987022408		
Qty.	20 ST		
Type	CSI S 2CO	Version	
Order No.	3052590000	Version	CUBESERIES, Relay socket, Number of contacts: 2, CO contact, Continuous current: 8 A, Screw connection
GTIN (EAN)	4099987022422		
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.	3052660000	Version	CUBESERIES, Cross-connector
GTIN (EAN)	4099987022484		
Qty.	20 ST		

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Accessories

Type	CXI CCP 2P RD	Version
Order No.	3052650000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987022477	
Qty.	20 ST	
Type	CXI CCP 8P BL	Version
Order No.	3052700000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987022507	
Qty.	10 ST	
Type	CXI CCP 8P RD	Version
Order No.	3052690000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987022491	
Qty.	10 ST	
Type	CXI CCS 8P GY	Version
Order No.	3052620000	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.	3052710000	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022514	
Qty.	10 ST	
Type	CXI CLIP HM	Version
Order No.	3052640000	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022460	
Qty.	10 ST	

Cross-connections



Cross-connection for the sockets in the CUBESERIES CRI.

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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

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General ordering data

Type	CXX JMP 2P BL	Version	
Order No.	3053260000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023085		
Qty.	30 ST		
Type	CXX JMP 2P RD	Version	
Order No.	3053250000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023078		
Qty.	30 ST		

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Counterpart

Relay sockets



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- 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.	3052570000		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.	3052590000		CUBESERIES, Relay socket, Number of contacts: 2, CO contact,
GTIN (EAN)	4099987022422		Continuous current: 8 A, Screw connection
Qty.	10 ST		