

CRI20024**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**General ordering data**

Version	CUBESERIES, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24 V DC, Continuous current: 8 A, Plug-in connection, Test button available: No
Order No.	3052430000
Type	CRI20024
GTIN (EAN)	4099987022279
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	13.2 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	24 V DC	Rated current DC	16.7 mA
Power rating	400 mW	Coil resistance	1440 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 ⁷ 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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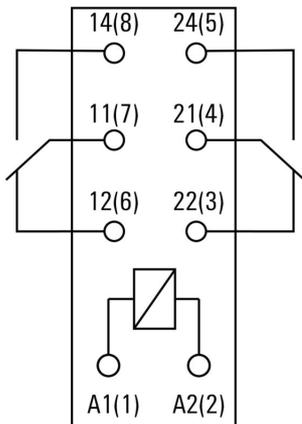
Connection data

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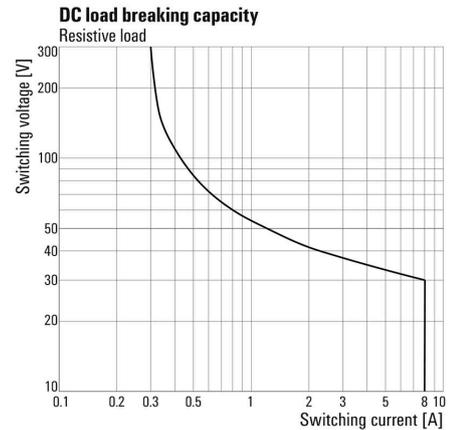
Classifications

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		

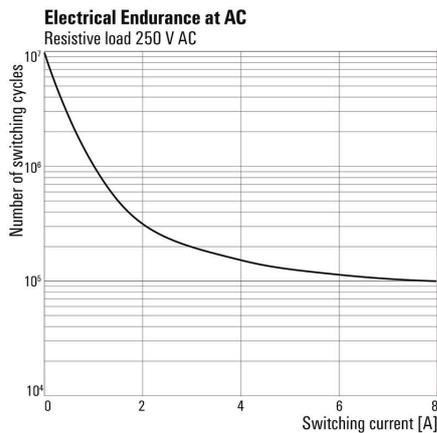
Connection diagram



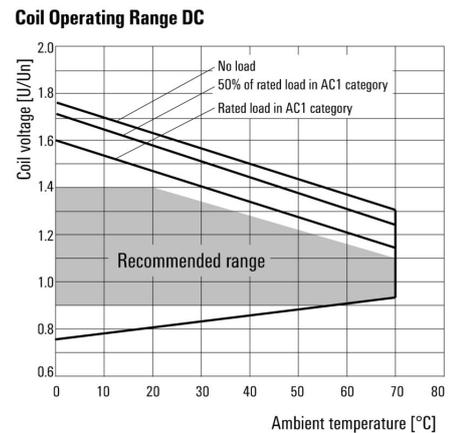
Graph



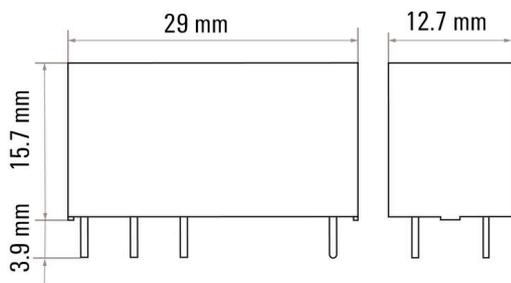
Graph



Graph

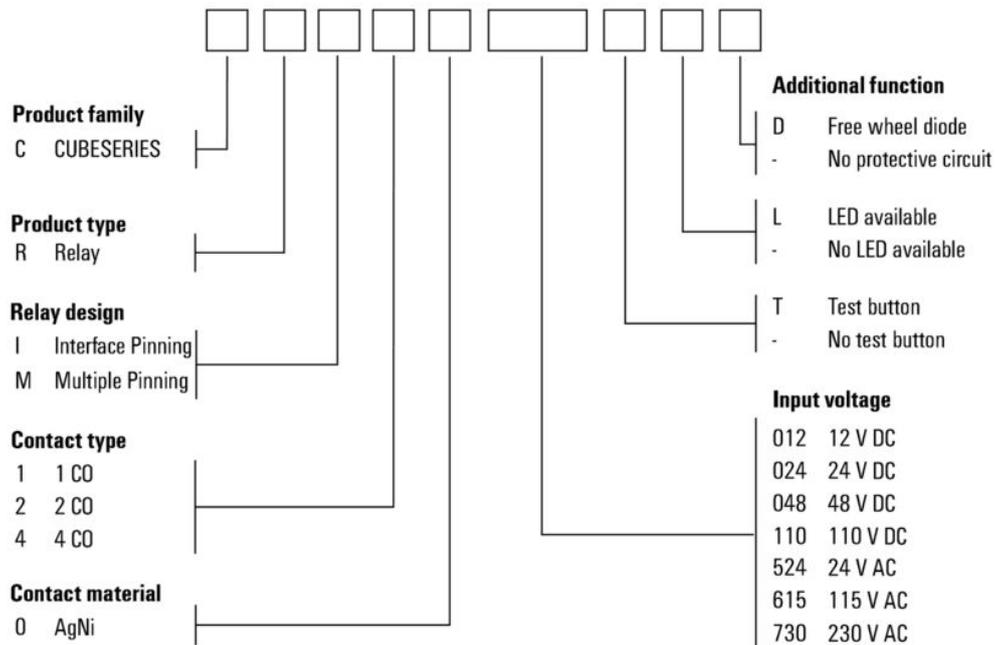


Dimensional drawing



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.	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 and free-wheeling diode



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Accessories

General ordering data

Type	CXX LD 42G	Version	
Order No.	3053340000	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.	3053320000	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.	3053420000	CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in	
GTIN (EAN)	4099987023207	connection	
Qty.	20 ST		
Type	CXX L 61R	Version	
Order No.	3053410000	CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in	
GTIN (EAN)	4099987023191	connection	
Qty.	20 ST		
Type	CXX L 62G	Version	
Order No.	3053440000	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.	3053430000	CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-	
GTIN (EAN)	4099987023214	in connection	
Qty.	20 ST		

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Accessories

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	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		

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

Versions 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	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987022484		
Qty.	20 ST		
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		

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Accessories

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 LM	Version
Order No.	3052630000	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022453	
Qty.	25 ST	
Type	CXI CLIP P	Version
Order No.	3052710000	CUBESERIES, Retaining clip
GTIN (EAN)	4099987022514	
Qty.	10 ST	

Cross-connections



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
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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		