

## CRM40110TLD

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

## Individual relays within the CUBESERIES CRM

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 4 CO contact (7 A)
- With test buttons with colour coding (DC coil: blue)
- Integrated green status LED and free-wheeling diode
- With mechanical status indicator

## General ordering data

Version	CUBESERIES, Relay, Number of contacts: 4, CO contact AgNi, Rated control voltage: 110 V DC, Continuous current: 7 A, Plug-in connection, Test button available: Yes
Order No.	<a href="#">3053100000</a>
Type	CRM40110TLD
GTIN (EAN)	4099987022927
Qty.	10 items

## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E223474

## Dimensions and weights

Depth	35.5 mm	Depth (inches)	1.3976 inch
Height	27.4 mm	Height (inches)	1.0787 inch
Width	21 mm	Width (inches)	0.8268 inch
Net weight	35 g		

## Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...70 °C
Operating temperature		Humidity	25 °C / 95 % rel. humidity, no condensation

## 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	110 V DC	Rated current DC	8.3 mA
Power rating	0.9 W	Coil resistance	13600 Ω ± 10 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode

## Load side

Rated switching voltage	250 V AC	Continuous current	7 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Inrush current	16 A / 20 ms	AC switching capacity (resistive), max.	1500 VA
DC switching capacity (resistive), max.	168 W @ 24 V	Switch-on delay	≤ 20 ms
Switch-off delay	≤ 20 ms	Contact type	4 CO contact (AgNi)
Mechanical service life	2 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	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	2
Surge voltage category	II	Dielectric strength for control side - load side	2.5 kVeff / 1 Min.
Dielectric strength of neighbouring contacts	2 kVeff / 1 min	Dielectric strength of open contact	1.5 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. (VDE)	40059812
Certificate No. (cURus)	E223474		

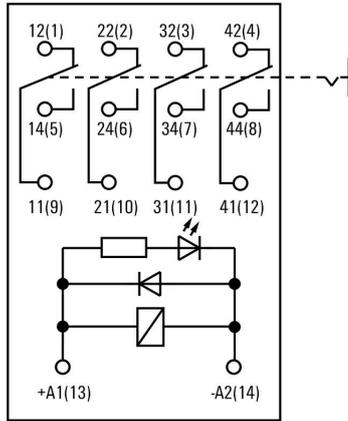
**Connection data**

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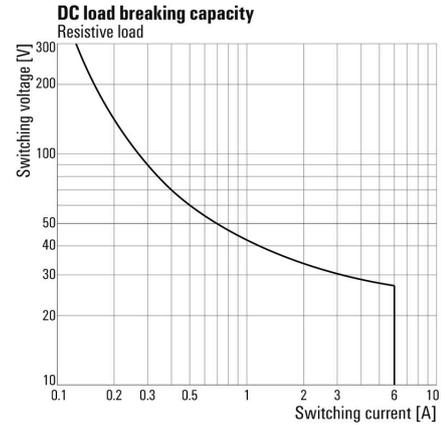
**Classifications**

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		

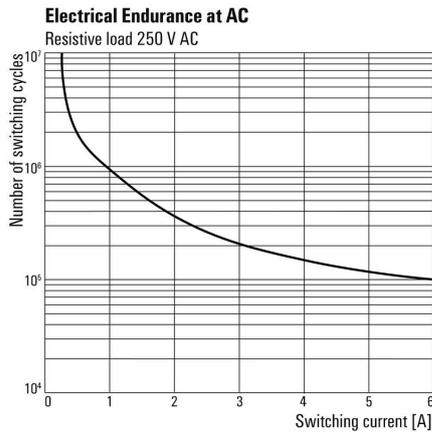
Connection diagram



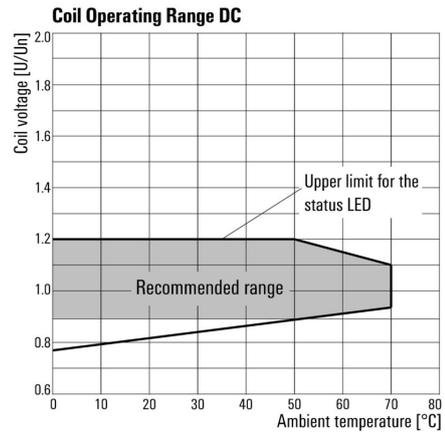
Graph



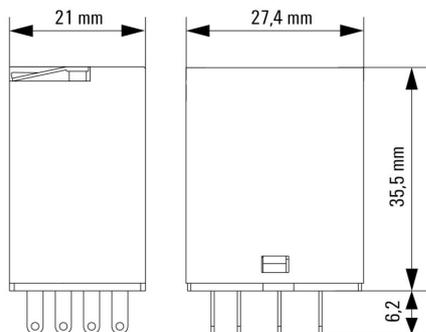
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Graph

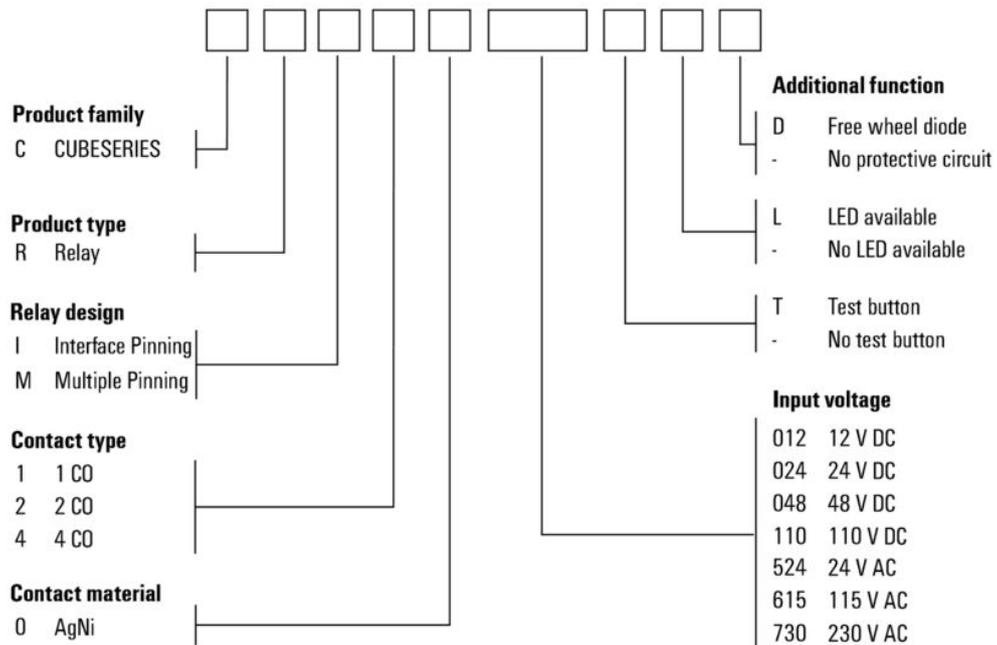


Dimensional drawing



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-wheel diode



#### General ordering data

Type	CXX LD 43G	Version	
Order No.	<a href="#">3053360000</a>	CUBESERIES, LED module with freewheel diode, Rated control voltage: 110...230 V DC, Plug-in connection	
GTIN (EAN)	4099987023153		
Qty.	20 ST		
Type	CXX LD 43R	Version	
Order No.	<a href="#">3053350000</a>	CUBESERIES, LED module with freewheel diode, Rated control voltage: 110...230 V DC, Plug-in connection	
GTIN (EAN)	4099987023146		
Qty.	20 ST		

### LED



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## Accessories

## 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 CRM relays

- 4 CO output version for 2 CO and 4 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	CSM P 4CO	Version
Order No.	<a href="#">3053140000</a>	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4099987022965	Continuous current: 8 A, PUSH IN
Qty.	10 ST	
Type	CSM S 4CO	Version
Order No.	<a href="#">3053160000</a>	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4099987022989	Continuous current: 6 A, Screw connection
Qty.	10 ST	

## Cross-connections



## General ordering data

Type	CXM CCP 2P BL	Version
Order No.	<a href="#">3053230000</a>	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023054	
Qty.	20 ST	
Type	CXM CCP 2P RD	Version
Order No.	<a href="#">3053220000</a>	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023047	
Qty.	20 ST	

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## Accessories

Type	CXM CCP 8P BL	Version
Order No.	<a href="#">3053210000</a>	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023030	
Qty.	10 ST	
Type	CXM CCP 8P RD	Version
Order No.	<a href="#">3053200000</a>	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023023	
Qty.	10 ST	
Type	CXM CCS 6P GY	Version
Order No.	<a href="#">3053180000</a>	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023009	
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

## General ordering data

Type	CXM CLIP P	Version
Order No.	<a href="#">3053240000</a>	CUBESERIES, Retaining clip
GTIN (EAN)	4099987023061	
Qty.	10 ST	
Type	CXM CLIP M	Version
Order No.	<a href="#">3053190000</a>	CUBESERIES, Retaining clip
GTIN (EAN)	4099987023016	
Qty.	25 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	

**Accessories**

Type	CXX JMP 2P RD	Version	
Order No.	<a href="#">3053250000</a>	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023078		
Qty.	30 ST		

## Relay sockets



Relay sockets for the CUBESERIES CRM relays

- 4 CO output version for 2 CO and 4 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	CSM P 4CO	Version	
Order No.	<a href="#">3053140000</a>		CUBESERIES, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4099987022965		Continuous current: 8 A, PUSH IN
Qty.	10 ST		
Type	CSM S 4CO	Version	
Order No.	<a href="#">3053160000</a>		CUBESERIES, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4099987022989		Continuous current: 6 A, Screw connection
Qty.	10 ST		