

CRM20024TLD**Weidmüller Interface GmbH & 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
- 2 CO contact (12 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: 2, CO contact AgNi, Rated control voltage: 24 V DC +10 % / -20 %, Continuous current: 12 A, Plug-in connection, Test button available: Yes
Order No.	3052870000
Type	CRM20024TLD
GTIN (EAN)	4099987022682
Qty.	10 pc(s).

Creation date June 6, 2025 9:00:00 PM CEST

Catalogue status 24.05.2025 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	35.5 mm	Depth (inches)	1.398 inch
Height	27.4 mm	Height (inches)	1.079 inch
Width	21 mm	Width (inches)	0.827 inch
Net weight	35 g		

Temperatures

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

Rated data UL

Certificate No. (cURus)	E223474
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Control side

Rated control voltage	24 V DC + 10 % / -20 %	Rated current DC	37.8 mA
Power rating	0.9 W	Coil resistance	640 Ω ± 10 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode

Load side

Rated switching voltage	250 V AC	Continuous current	12 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Max. switching voltage, DC	250 V	AC switching capacity (resistive), max.	3000 VA
DC switching capacity (resistive), max.	288 W @ 24 V	Switch-on delay	≤ 20 ms
Switch-off delay	≤ 20 ms	Contact type	2 CO contact (AgNi)
Mechanical service life	2 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	Yes
Version of test button	Lockable test button, Momentary test button	Mechanical switch position indicator	Yes
Colour	Transparent	UL 94 flammability rating	V-2

Insulation coordination

Rated voltage	250 V	Pollution severity	3
Surge voltage category	III	Dielectric strength for control side - load side	2.5 kV _{eff} / 1 min
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min	Dielectric strength of open contact	1.5 kV _{eff} / 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 mm
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Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 9.0	27-37-16-01
ECLASS 9.1	27-37-16-01	ECLASS 10.0	27-37-16-01
ECLASS 11.0	27-37-16-01	ECLASS 12.0	27-37-16-01
ECLASS 13.0	27-37-16-01	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/
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ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E223474

Downloads

Engineering Data	CAD data – STEP
Catalogues	Catalogues in PDF-format

CRM20024TLD

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Klingenbergstraße 26

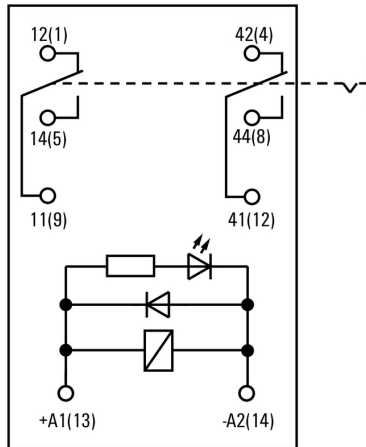
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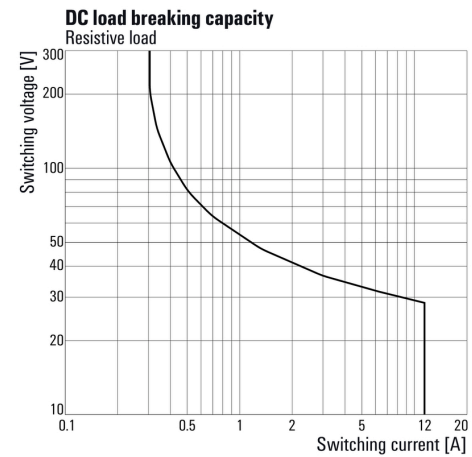
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Drawings

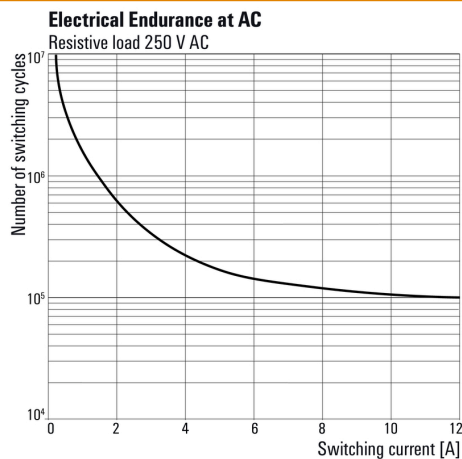
Connection diagram



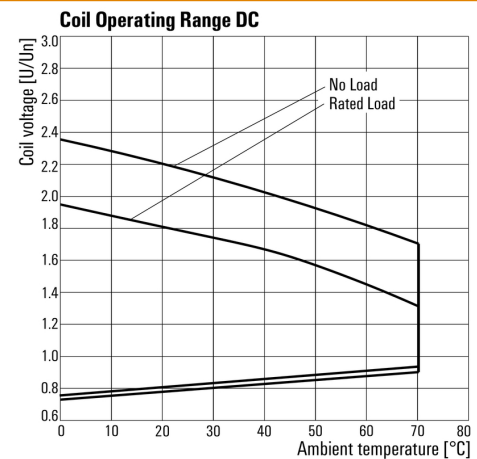
Graph



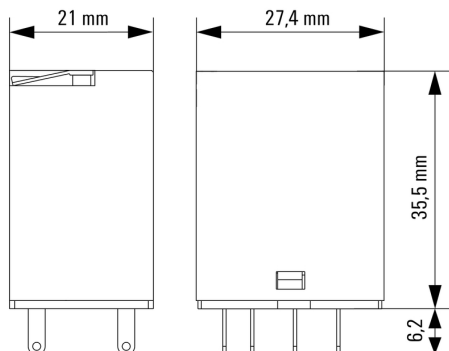
Graph



Graph



Dimensional drawing



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Accessories

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 S 4CO	Version
Order No.	3053160000	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4099987022989	Continuous current: 6 A, Screw connection
Qty.	10 pc(s).	
Type	CSM P 4CO	Version
Order No.	3053140000	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4099987022965	Continuous current: 8 A, PUSH IN
Qty.	10 pc(s).	

Cross-connections



General ordering data

Type	CXM CCP 2P RD	Version
Order No.	3053220000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023047	
Qty.	20 pc(s).	
Type	CXX JMP 2P RD	Version
Order No.	3053250000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023078	
Qty.	30 pc(s).	
Type	CXM CCP 8P BL	Version
Order No.	3053210000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023030	
Qty.	10 pc(s).	
Type	CXM CCP 8P RD	Version
Order No.	3053200000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023023	
Qty.	10 pc(s).	

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Accessories

Type	CXX JMP 2P BL	Version
Order No.	3053260000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023085	
Qty.	30 pc(s).	
Type	CXM CCS 6P GY	Version
Order No.	3053180000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023009	
Qty.	2 pc(s).	
Type	CXM CCP 2P BL	Version
Order No.	3053230000	CUBESERIES, Cross-connector
GTIN (EAN)	4099987023054	
Qty.	20 pc(s).	

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 pc(s).	

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.	3053240000	CUBESERIES, Retaining clip
GTIN (EAN)	4099987023061	
Qty.	10 pc(s).	

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Accessories

Type	CXM CLIP M	Version
Order No.	3053190000	CUBESERIES, Retaining clip
GTIN (EAN)	4099987023016	
Qty.	25 pc(s).	

LED



General ordering data

Type	CXX L 61R	Version
Order No.	3053410000	CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection
GTIN (EAN)	4099987023191	
Qty.	20 pc(s).	

Type	CXX L 62R	Version
Order No.	3053430000	CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection
GTIN (EAN)	4099987023214	
Qty.	20 pc(s).	

Type	CXX L 61G	Version
Order No.	3053420000	CUBESERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection
GTIN (EAN)	4099987023207	
Qty.	20 pc(s).	

Type	CXX L 62G	Version
Order No.	3053440000	CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection
GTIN (EAN)	4099987023221	
Qty.	20 pc(s).	

LED and free-wheeling diode



General ordering data

Type	CXX LD 42G	Version
Order No.	3053340000	CUBESERIES, LED module with freewheel diode, Rated control voltage: 24...60 V DC, Plug-in connection
GTIN (EAN)	4099987023139	
Qty.	20 pc(s).	

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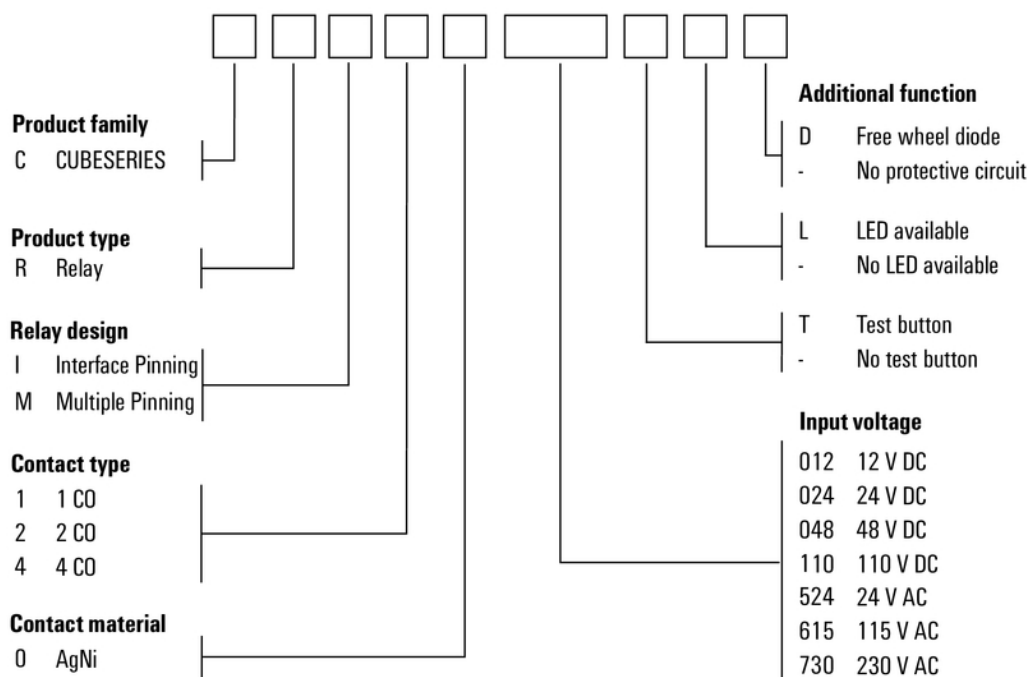
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Type	CXX LD 41G	Version
Order No.	3053310000	CUBESERIES, LED module with freewheel diode, Rated control
GTIN (EAN)	4099987023115	voltage: 6...24 V DC, Plug-in connection
Qty.	20 pc(s).	
Type	CXX LD 41R	Version
Order No.	3053290000	CUBESERIES, LED module with freewheel diode, Rated control
GTIN (EAN)	4099987023108	voltage: 6...24 V DC, Plug-in connection
Qty.	20 pc(s).	
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 pc(s).	

Miscellaneous**Type code CUBESERIES relay versions**

Type codes