

MCZ R 48...110VDC 1CO AU TRAK

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



Similar to illustration

High reliability in a terminal block format

MCZ SERIES relay modules are among the smallest on the market. Thanks to the small width of just 6.1 mm, a lot of space can be saved in the panel. All products in the series have three cross-connection terminals and are distinguished by simple wiring with plug-in cross-connections. The tension clamp connection system, proven a million times over, and the integrated reverse polarity protection ensure a high level of safety during installation and operation. Precisely fitting accessories from cross-connectors to markers and end plates make the MCZ SERIES versatile and convenient to use.

- Tension clamp connection
- Integrated cross-connection in input/output.
- Clampable conductor cross-section is 0.5 to 1.5 mm²
- Variants of the MCZ TRAK type are particularly suitable for the transport sector and tested according to DIN EN 50155

General ordering data

Version	MCZ-SERIES TRAK, Relay module, Number of contacts: 1, CO contact AgSnO gold-plated, Rated control voltage: 48 V...110 V DC +25 % / -30 %, Continuous current: 6 A, Tension-clamp connection
Order No.	8790500000
Type	MCZ R 48...110VDC 1CO AU TRAK
GTIN (EAN)	4032248479511
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	63.2 mm	Depth (inches)	2.488 inch
Height	91 mm	Height (inches)	3.583 inch
Net weight	28 g	Width	6.1 mm
Width (inches)	0.24 inch		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity	95 % for 30 days, minimal condensation to EN 50155	Note: room temperature (service)	+85 °C for 10 minutes

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Control side

Max. reset time after voltage interruption	10 ms	Power rating	< 300 mW
Protective circuit	Free-wheeling diode, Varistor, Reverse polarity protection	Pull-in/drop-out voltage, typ.	25 V / 6 V DC
Rated control voltage	48...110 V DC + 25 % / - 30 %	Rated current DC	< 3 mA
Status indicator	Green LED		

Load side

AC switching capacity (resistive), max.	1500 VA	Continuous current	6 A
DC switching capacity (resistive), max.	120 W @ 24 V	Inrush current	6 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, DC	250 V
Min. switching power	1 mA @ 1 V	Rated switching voltage	250 V AC
Switch-off delay	≤ 100 ms	Switch-on delay	≤ 4 ms

Contact data

Contact type	1 CO contact (AgSnO gold-plated)	Mechanical service life	10 x 10 ⁶ switching cycles
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General data

Version	for railway applications		
Rail	TS 35		
Test button	No		
Mechanical switch position indicator	No		
Open sides	right		
Colour	beige		
UL94 flammability rating component	Component	Housing	
	UL94 flammability rating	V-0	

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Technical data

Insulation coordination

Creepage and clearance distance input – output

 $\geq 5.5 \text{ mm}$

Dielectric strength, Input/Output

4 kV_{eff} / 1 s

Pollution severity

2

Rated voltage

300 V

Dielectric strength to mounting rail

4 kV_{eff} / 1 Min.

Impulse withstand voltage

4 kV (1.2/50 μ s)

Protection degree

IP20

Surge voltage category

III

Further details of approvals / standards

Standards

DIN EN 50178, DIN EN 50155

Connection data

Wire connection method

Tension-clamp connection

Clamping range, rated connection

1.5 mm²

Clamping range, max.

1.5 mm²

Wire connection cross section AWG, max.

AWG 16

Wire cross-section, solid, max.

1.5 mm²

Wire cross-section, solid, max. (AWG)

AWG 16

Wire connection cross section, finely stranded, max.

1.5 mm²

Wire cross-section, finely stranded, max. (AWG)

AWG 16

Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.

1.5 mm²

Conductor cross-section, flexible, AEH (DIN 46228-1), max.

1.5 mm²

Stripping length, rated connection

8 mm

Clamping range, min.

0.5 mm²

Wire connection cross section AWG, min.

AWG 26

Wire cross-section, solid, min.

0.5 mm²

Wire cross-section, solid, min. (AWG)

AWG 26

Wire connection cross section, finely stranded, min.

0.5 mm²

Wire cross-section, finely stranded, min. (AWG)

AWG 26

Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.

0.5 mm²

Conductor cross-section, flexible, AEH (DIN 46228-1), min.

0.5 mm²

Blade size

0.6 x 3.5 mm

Classifications

ETIM 6.0

EC001437

ECLASS 9.0

27-37-16-01

ECLASS 10.0

27-37-16-01

ETIM 7.0

EC001437

ECLASS 9.1

27-37-16-01

ECLASS 11.0

27-37-16-01

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

User Documentation

[Beipackzettel / Package Insert – multilingual](#)

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Catalogue status 12.03.2021 / We reserve the right to make technical changes.

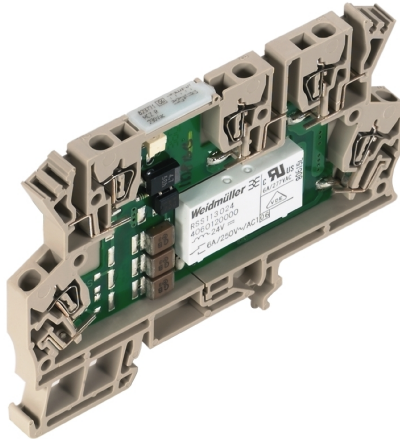
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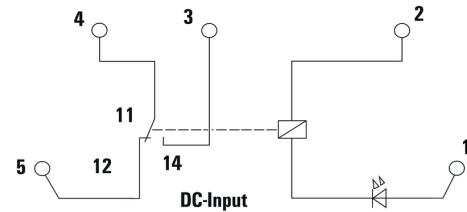
Drawings

Product image

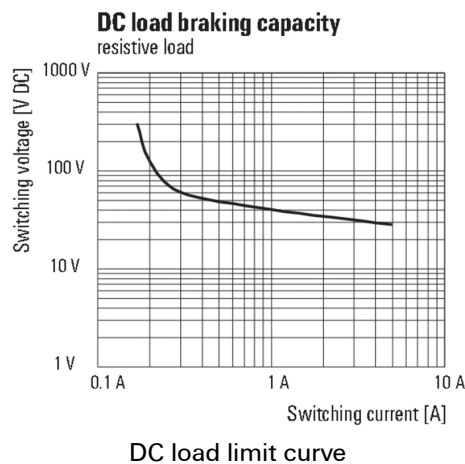


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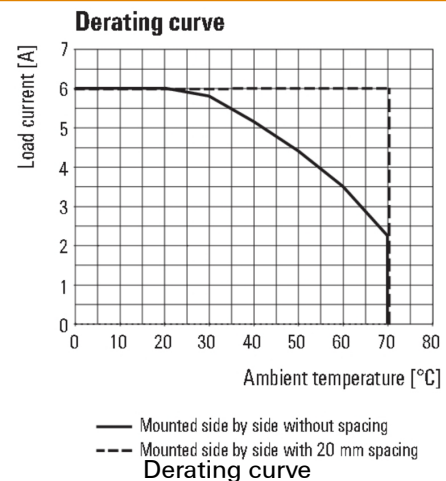
Wiring diagram



Graph



Graph



Dimensional drawing

