

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, Test button available: No
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
Width	6.1 mm	Width (inches)	0.24 inch
Net weight	28 g		

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

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

Load side

Rated switching voltage	250 V AC	Continuous 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	Inrush current	6 A
AC switching capacity (resistive), max.	1500 VA	DC switching capacity (resistive), max.	120 W @ 24 V
Switch-on delay	≤ 4 ms	Switch-off delay	≤ 100 ms
Contact design	CO contact	Contact material	AgSnO gold-plated
Contact material product selector	gold-plated contacts	Contact type	1 CO contact (AgSnO gold-plated)
Mechanical service life	10 x 10 ⁶ switching cycles	Number of contacts	1

General data

Version	for railway applications		
Rail	TS 35		
Test button available	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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Insulation coordination

Rated voltage	300 V	Pollution severity	2
Surge voltage category	III	Clearance and creepage distances for control side - load side	≥ 5.5 mm
Dielectric strength for control side - load side	4 kV _{eff} / 1 s	Dielectric strength to mounting rail	4 kV _{eff} / 1 Min.
Impulse withstand voltage	4 kV (1.2/50 µs)	Protection degree	IP20

Further details of approvals / standards

Standards	DIN EN 50178, DIN EN 50155
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Connection data

Wire connection method	Tension-clamp connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	1.5 mm ²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 16	Wire cross-section, solid, min.	0.5 mm ²
Wire cross-section, solid, max.	1.5 mm ²	Wire cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 16	Wire connection cross section, finely stranded, min.	0.5 mm ²
Wire connection cross section, finely stranded, max.	1.5 mm ²	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (AWG)	AWG 16	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm ²	Blade size	0.6 x 3.5 mm

Classifications

ETIM 6.0	EC001437	ETIM 7.0	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

Approvals

Approvals



ROHS

Conform

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Technical data

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
Catalogues	Catalogues in PDF-format
Brochures	

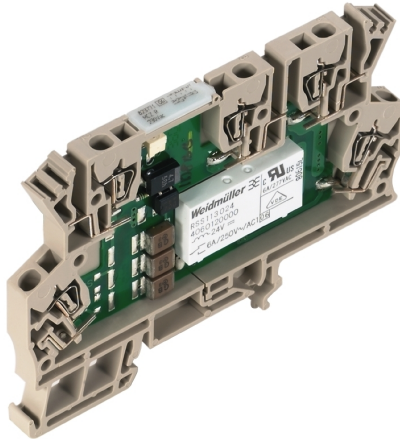
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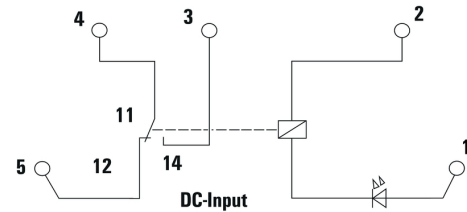
Drawings

Product image

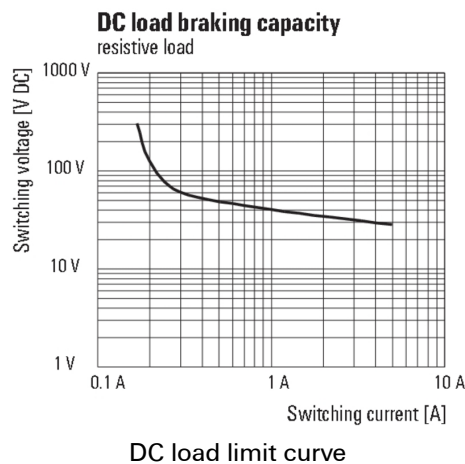


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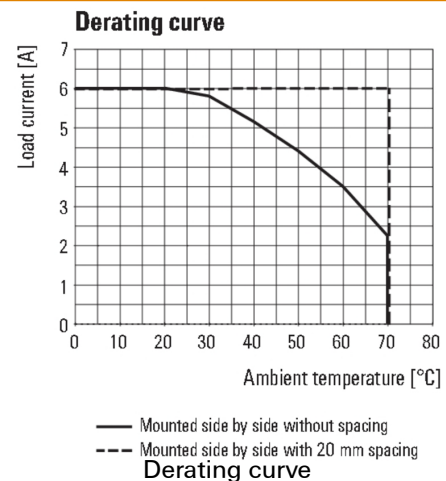
Wiring diagram



Graph



Graph



Dimensional drawing

