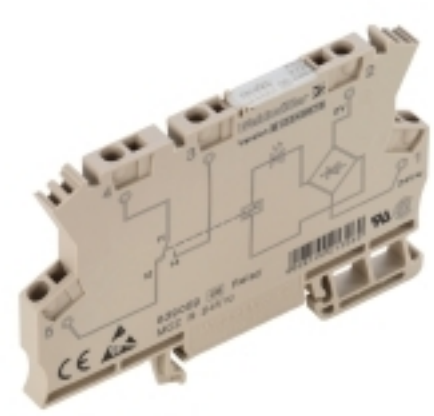
MCZ R 48...110Vdc 1NO TRAK

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, NO contact AgSnO, Rated control voltage: 48 V...110 V DC +25 % / -30 %, Continuous current: 6 A, Tension-clamp connection
Order No.	8574070000
Type	MCZ R 48...110Vdc 1NO TRAK
GTIN (EAN)	4032248232932
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	27.2 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

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	100 mA @ 12 V	Rated switching voltage	250 V AC
Switch-off delay	≤ 100 ms	Switch-on delay	≤ 4 ms

Contact data

Contact type	1 NO contact (AgSnO)	Mechanical service life	10 x 10^6 switching cycles

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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Insulation coordination

Creepage and clearance distance input – output	≥ 5.5 mm	Dielectric strength to mounting rail	4 kV_{eff} / 1 Min.
Dielectric strength, Input/Output	4 kV_{eff} / 1 s	Impulse withstand voltage	4 kV (1.2/50 µs)
Pollution severity	2	Protection degree	IP20
Rated voltage	300 V	Surge voltage category	III

Further details of approvals / standards

Standards	DIN EN 50178, DIN EN 50155

Connection data

Wire connection method	Tension-clamp connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.5 mm²
Clamping range, max.	1.5 mm²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 16	Wire cross-section, solid, min.	0.5 mm²
Wire cross-section, solid, max.	1.5 mm²	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 mm²
Wire connection cross section, finely stranded, max.	1.5 mm²	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 mm²
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), min.	0.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	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

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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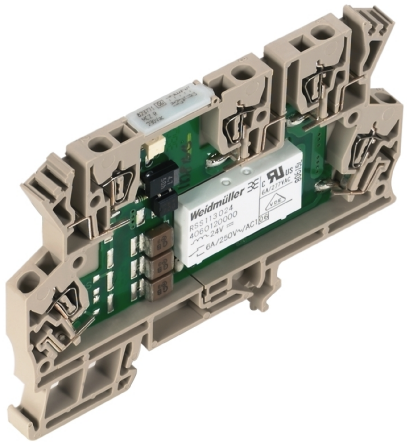
Drawings

Product image



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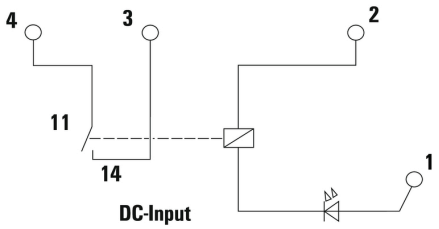
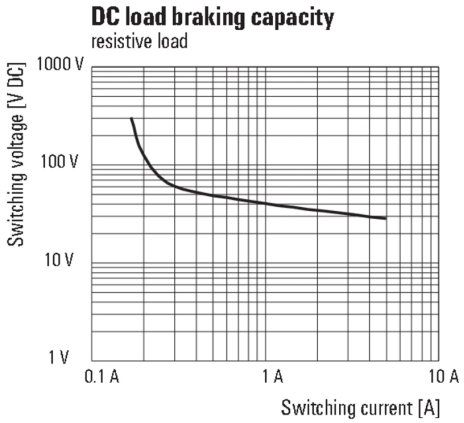
Wiring diagram

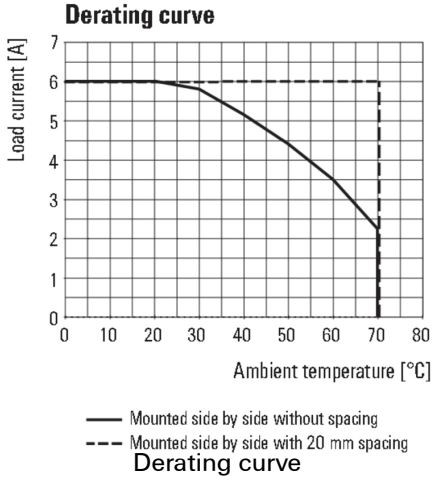


Graph



DC load limit curve

Graph



Derating curve

Dimensional drawing