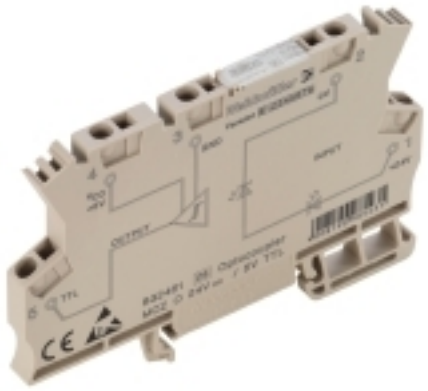
MCZ O TRAK 24.110VDC

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



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, solid-state relais, 1 NO contact (Transistor), Rated control voltage: 24...110 V DC -30 / +25 % , Rated switching voltage: 5...137.5 V DC, Continuous current: 250 mA @ 50 °C, Tension-clamp connection
Order No.	8820710000
Type	MCZ O TRAK 24.110VDC
GTIN (EAN)	4032248522231
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	23.9 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		

Probability of failure

MTTF	1,943 Years

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Control side

Nominal control current	2.8 mA DC	Protective circuit	Reverse polarity protection
Pull-in/drop-out voltage, typ.	14 V / 13.5 V DC	Rated control voltage	24...110 V DC + 0 25 / - 0 25
Status indicator	Green LED		

Load side

Continuous current	0.25 A @ 50 °C	Protective circuit, load side	Varistor, Free-wheeling diode
Rated switching voltage	5...137.5 V DC	Short-circuit-proof	No
Switch-off delay	≤ 50 ms	Switch-on delay	≤ 10 ms
Voltage drop at max. load	≤ 1.7 V	max. switching frequency (DC control voltage)	10 Hz

Contact data

Contact type	1 NO contact (Transistor)

General data

Version	for railway applications	
Rail	TS 35	
Colour	beige	
UL94 flammability rating component	Component	Housing
	UL94 flammability rating	V-0

Insulation coordination

Clearance and creepage distances for control side - load side	≥ 5.5 mm	Dielectric strength for control side - load side	1 kV_{eff} / 1 s
Dielectric strength to mounting rail	4 kV_{eff} / 1 Min.	Impulse withstand voltage	6 kV (1.2/50 µs)
Pollution severity	2	Protection degree	IP20
Rated voltage	300 V	Surge voltage category	III

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Technical data

Further details of approvals / standards

Standards	DIN EN 50178, EN 50155, UL508

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	EC001504	ETIM 7.0	EC001504
ECLASS 9.0	27-37-16-04	ECLASS 9.1	27-37-16-04
ECLASS 10.0	27-37-16-04	ECLASS 11.0	27-37-16-04

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Package Insert – multilingual

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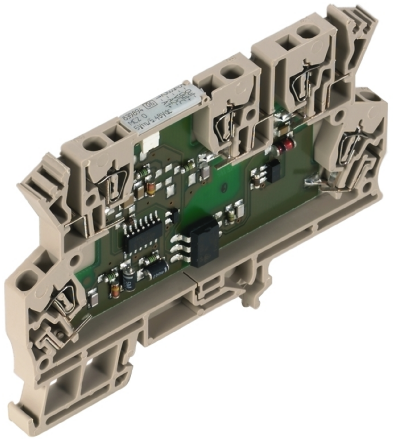
Drawings



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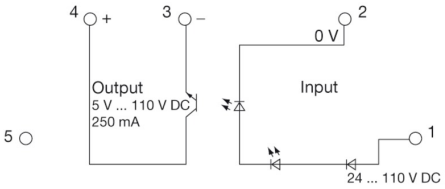
Wiring diagram



Schaltsymbol

Dimensional drawing