

## MCZ O 24VDC

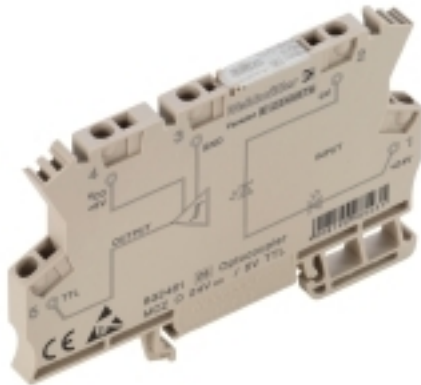
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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 mm<sup>2</sup>
- 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, solid-state relays, 1 NO contact (TTL), Rated control voltage: 24 V DC $\pm 16\%$ , Rated switching voltage: 5 V TTL, Continuous current: 8 ma, Fan out = 20 LS-TTL, Tension-clamp connection
Order No.	<a href="#">8324610000</a>
Type	MCZ O 24VDC
GTIN (EAN)	4008190985431
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...60 °C	Operating temperature	-25 °C...40 °C
Humidity	40 °C / 93 % rel. humidity, no condensation		

## Probability of failure

MTTF	3,036 Years
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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## Rated data UL

Certificate No. (cURus)	E141197
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## Control side

Nominal control current	5 mA DC (±20 %)	Power rating	112 mW
Protective circuit	Reverse polarity protection	Pull-in/drop-out voltage, typ.	16.8 V / 16.5 V DC
Rated control voltage	24 V DC ± 16 %	Status indicator	Green LED

## Load side

Continuous current	0.008 A Fan out = 20 LS-TTL	Nominal auxiliary voltage	5 V DC ±5 %
Protective circuit, load side	Diode circuit	Rated switching voltage	5 V TTL
Short-circuit-proof	No	Switch-off delay	≤ 2.5 μs (at 28V DC)
Switch-on delay	≤ 1 μs (at 20V DC)	max. switching frequency (DC control voltage)	100 kHz

## Contact data

Contact type	1 NO contact (TTL)
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## General data

Rail	TS 35		
Colour	beige		
UL94 flammability rating component	Component	Housing	
	UL94 flammability rating	V-0	

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## Technical data

## Insulation coordination

Clearance and creepage distances for control side - load side	≥ 5.5 mm	Dielectric strength for control side - load side	1 kV <sub>eff</sub> / 1 s
Dielectric strength to mounting rail	4 kV <sub>eff</sub> / 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

## Further details of approvals / standards

Standards	DIN EN 50178, UL508	Certificate No. (CSA)	154685-1198742
Certificate No. (cURus)	E141197		

## Connection data

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

## Important note

Product information	The cable lengths must not exceed 30 m.
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## Approvals

Approvals



ROHS	Conform
UL File Number Search	E141197

**Data sheet****MCZ O 24VDC**

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**Technical data****Downloads**

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Approval/Certificate/Document of Conformity	<a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">STEP</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Beipackzettel / Package Insert - multilingual</a>

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**Data sheet**

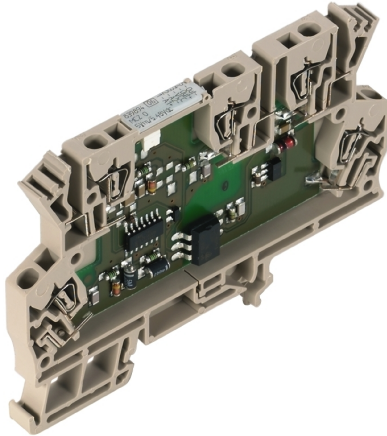
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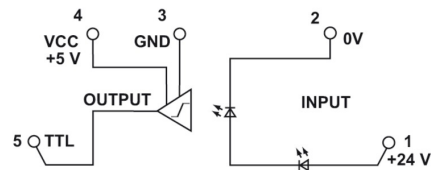
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**Drawings**

**Wiring diagram**



Similar to illustration



Schaltsymbol

**Dimensional drawing**

