

MCZ TO 24VDC/50MS

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



The narrow pulse stretcher measuring just 6.1 mm wide. Pulse stretchers are used in automation technology to extend very short input pulses of less than 10 ms. Such short pulses are generated by light barriers, for example, and cannot be processed by conventional timing relays. The extended pulses, on the other hand, can be forwarded directly to the PLC. MCZ TO is one of the narrowest pulse stretchers on the market. It extends even very short pulses ≥ 3.5 ms and has a fixed switch-off delay (50 ms or 150 ms). MCZ TO operates with low input power, and auxiliary voltages in the input and output are not required. It also includes a watchdog function with restarting of the off-delay. Precisely fitting accessories such as cross-connectors, markers and end plates make it flexible to use.

- Detection of very short input pulses (≥ 3.5 ms)
- Versatile to use thanks to three cross-connector connections
- Proven and reliable tension clamp connection system
- High level of safety thanks to integrated reverse polarity protection

General ordering data

Version	MCZ SERIES, Pulse stretcher, Number of contacts: 1, NO contact, Rated control voltage: 24 V DC ± 10 %, Continuous current: 20 mA, Tension-clamp connection
Order No.	8324590000
Type	MCZ TO 24VDC/50MS
GTIN (EAN)	4008190985455
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	22.4 g	Width	6.1 mm
Width (inches)	0.24 inch		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...50 °C
Humidity	40 °C / 93 % rel. humidity, no condensation		

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

Min. pulse duration	2 ms	Power rating	160 mW
Protective circuit	Reverse polarity protection	Rated control voltage	24 V DC $\pm$ 10 %
Rated current DC	6.7 mA $\pm$ 10 %	Status indicator	Green LED

Load side

Continuous current	0.02 A	Inrush current	200 mA
Max. switching frequency at rated load	5 Hz	Max. switching voltage, DC	48 V
Rated switching voltage	5...48 V DC	Switch-off delay	50 ms

Contact data

Contact type	1 NO contact (Transistor)
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General data

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

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	1 kV _{eff} / 1 s	Impulse withstand voltage	6 kV (1.2/50 μ s)
Pollution severity	2	Rated voltage	300 V
Surge voltage category	IV		

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Technical data

Further details of approvals / standards

Standards	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 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	EC001439	ETIM 7.0	EC001439
ECLASS 9.0	27-37-16-05	ECLASS 9.1	27-37-16-05
ECLASS 10.0	27-37-16-05	ECLASS 11.0	27-37-16-05

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

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

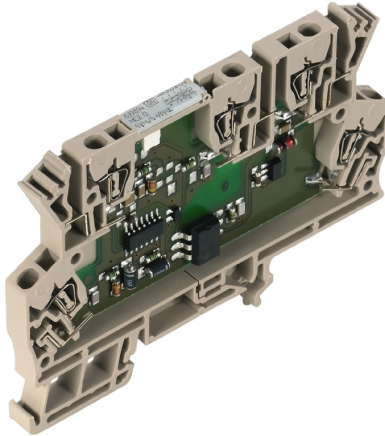
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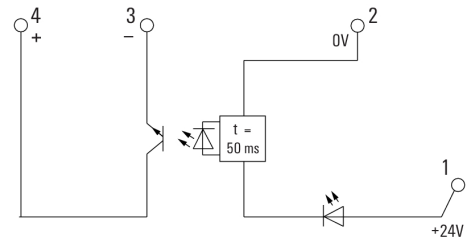
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Drawings

Product image

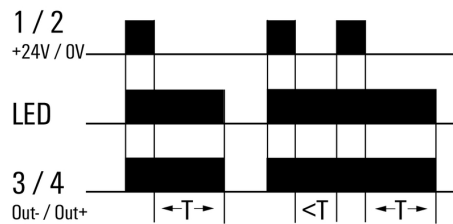


Wiring diagram



Time functions

off delay (watchdog)



Dimensional drawing

