

MCZ TO 24VDC/150MS

Weidmüller Interface GmbH & Co. KG

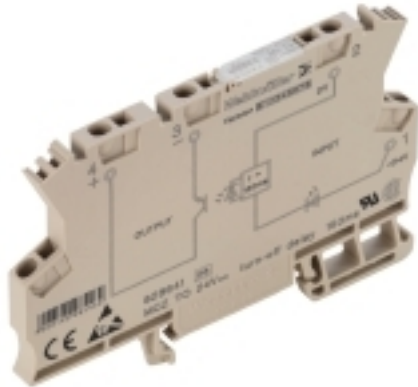
Klingenbergstraße 26

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. | 8286410000 |
| Type | MCZ TO 24VDC/150MS |
| GTIN (EAN) | 4008190985462 |
| 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 | 22.5 g | | |

Temperatures

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

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E141197 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|-----------------------------|---------------------|-------------------|
| Rated control voltage | 24 V DC $\pm 10\%$ | Rated current DC | 6.7 mA $\pm 10\%$ |
| Power rating | 160 mW | Status indicator | Green LED |
| Protective circuit | Reverse polarity protection | Min. pulse duration | 3.5 ms |

Load side

| | | | |
|--|---------------------------|----------------------------|--------|
| Rated switching voltage | 5...48 V DC | Continuous current | 0.02 A |
| Max. switching frequency at rated load | 3 Hz | Max. switching voltage, DC | 48 V |
| Inrush current | 200 mA | Switch-off delay | 150 ms |
| Contact type | 1 NO contact (Transistor) | | |

General data

| | | |
|--------------------------------------|--------------------------|---------|
| Suitable for front mounting | No | |
| 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 |

Insulation coordination

| | | | |
|--|---------------------------|---|------------------------------|
| Rated voltage | 300 V | Pollution severity | 2 |
| Surge voltage category | IV | 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 μ s) | | |

Further details of approvals / standards

| | | | |
|-----------------------|----------------|-------------------------|---------|
| Certificate No. (CSA) | 154685-1198742 | Certificate No. (cURus) | E141197 |
|-----------------------|----------------|-------------------------|---------|

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Technical data

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 |
| ETIM 8.0 | EC001439 | ETIM 9.0 | 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 |
| ECLASS 12.0 | 27-37-16-05 | ECLASS 13.0 | 27-37-16-05 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 35d83707-6a3b-45b5-b9f8-6ba8184c863e |

Important note

| | |
|---------------------|---|
| Product information | The cable lengths must not exceed 30 m. |
|---------------------|---|

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E141197 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Device description – Beipackzettel / Package Insert – multilingual |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

Creation date May 23, 2024 5:59:51 PM CEST

Catalogue status 18.05.2024 / We reserve the right to make technical changes.

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Klingenbergstraße 26

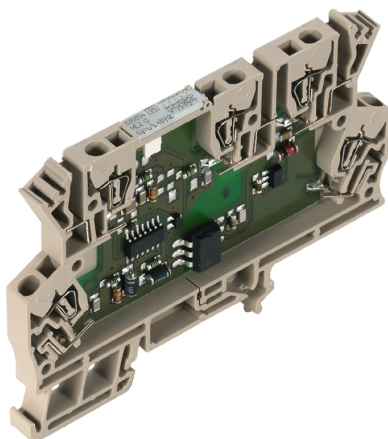
D-32758 Detmold

Germany

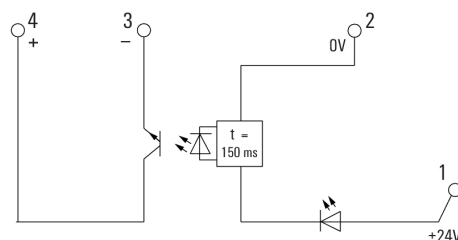
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Drawings

Product image

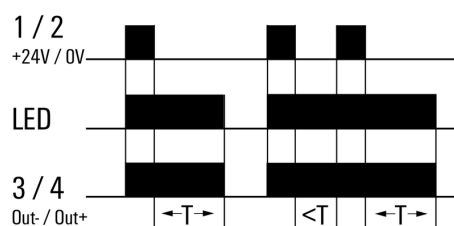


Wiring diagram

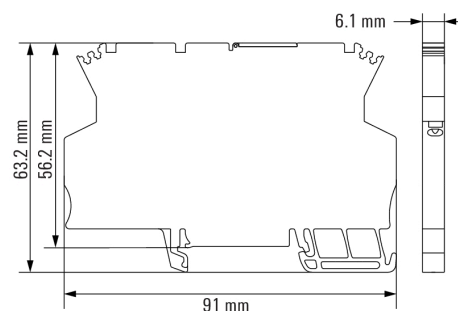


Time functions

off delay (watchdog)



Dimensional drawing



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Accessories

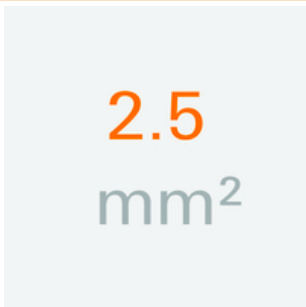
Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDIS 0.6X3.5X100 | Version |
| Order No. | 2749810000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118897012 | thickness (A): 0.6 mm |
| Qty. | 1 pc(s). | |

2.5 mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ZQV 2.5N/20 SW | Version |
| Order No. | 1909130000 | W-Series, Cross-connector, For the terminals, Number of poles: 20 |
| GTIN (EAN) | 4032248535910 | |
| Qty. | 20 pc(s). | |

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Accessories

AP MCZ 1.5 - End plate



Open miniature housing in modular terminal format with five tension clamp connections. A transparent hinged top plate can be used for labelling and provides access to potentiometer and status displays. Plug-in cross-connectors can be used to interconnect the three top connections. A cover plate for closing off the housing is also available.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | AP MCZ1.5 1674 | Version |
| Order No. | 8389030000 | Small housing, OMNIMATE Housing - TERMINALBOX grey-beige, End |
| GTIN (EAN) | 4008190386849 | plate, Width: 1.5 mm |
| Qty. | 50 pc(s). | |

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WS 10/6 MC NE WS | Version |
| Order No. | 1828450000 | WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |
| GTIN (EAN) | 4032248350513 | Allen-Bradley, white |
| Qty. | 600 pc(s). | |

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www.weidmueller.com**Accessories****Slotted screwdriver**

VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDIS SLIM 0.6X3.5X100 | Version |
| Order No. | 2749610000 | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118896350 | thickness (A): 0.6 mm |
| Qty. | 1 pc(s). | |

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDS 0.6X3.5X100 | Version |
| Order No. | 2749340000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118895568 | thickness (A): 0.6 mm |
| Qty. | 1 pc(s). | |

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Accessories

4 mm²4
mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

| | | |
|------------|----------------------------|---------------------------------|
| Type | ZQV 4N/20 GE | Version |
| Order No. | 1909020000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535644 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/10 SW | Version |
| Order No. | 1794060000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248234059 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/10 BL | Version |
| Order No. | 1794050000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248234011 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/2 SW | Version |
| Order No. | 1793970000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233762 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 RT | Version |
| Order No. | 1794010000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233809 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/20 RT | Version |
| Order No. | 1909150000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535934 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/4 GE | Version |
| Order No. | 1762620000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169771 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/2 RT | Version |
| Order No. | 1793950000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233748 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/2 GE | Version |
| Order No. | 1758250000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169795 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 SW | Version |
| Order No. | 1794030000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233915 | |
| Qty. | 60 pc(s). | |

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Accessories

| | | |
|------------|----------------------------|---------------------------------|
| Type | ZQV 4N/10 RT | Version |
| Order No. | 1794040000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248234004 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/3 BL | Version |
| Order No. | 1793990000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233786 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/20 BL | Version |
| Order No. | 1909100000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535774 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/2 BL | Version |
| Order No. | 1793960000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233755 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/3 GE | Version |
| Order No. | 1762630000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169788 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/3 RT | Version |
| Order No. | 1793980000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233779 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 BL | Version |
| Order No. | 1794020000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233816 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/10 GE | Version |
| Order No. | 1758260000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248169764 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/3 SW | Version |
| Order No. | 1794000000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233793 | |
| Qty. | 60 pc(s). | |