

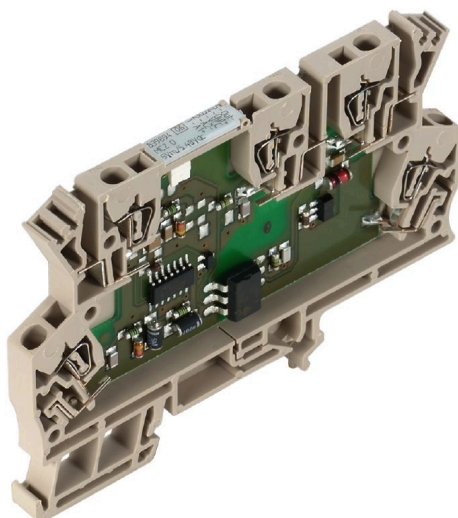
MCZ O 5VTTL
Weidmüller Interface GmbH & Co. KG

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 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, Solid-state relay, Rated control voltage: 5 V TTL , Rated switching voltage: 5...48 V DC, Continuous current: 0.1 A, Tension-clamp connection |
| Order No. | 8398940000 |
| Type | MCZ O 5VTTL |
| GTIN (EAN) | 4008190985448 |
| Qty. | 10 items |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E141197

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 63.2 mm | Depth (inches) | 2.4882 inch |
| Height | 91 mm | Height (inches) | 3.5827 inch |
| Width | 6.1 mm | Width (inches) | 0.2402 inch |
| Net weight | 20.2 g | | |

Temperatures

| | | | |
|-----------------------|----------------|---------------------|--|
| Storage temperature | -40 °C...60 °C | Ambient temperature | -25 °C...40 °C |
| Operating temperature | | Humidity | 40 °C / 93 % rel. humidity, no condensation |

Probability of failure

MTTF 2114 a

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 35d83707-6a3b-45b5-b9f8-6ba8184c863e |

Rated data UL

Certificate No. (cURus) E141197

Control side

| | | | |
|-----------------------|---------|---------------------------|-------------|
| Rated control voltage | 5 V TTL | Nominal control current | 1.65 mA DC |
| Power rating | 10 mW | Status indicator | Green LED |
| Input frequency | 2.4 kHz | Nominal auxiliary voltage | 5 V DC ±5 % |

Load side

| | | | |
|---|---------------|---------------------|--------------------|
| Rated switching voltage | 5...48 V DC | Continuous current | 0.1 A |
| Switch-on delay | <17 µs | Switch-off delay | <250 µs |
| Voltage drop at max. load | ≤ 1.8 V | Short-circuit-proof | No |
| Protective circuit, load side | Diode circuit | Contact type | 1 NO contact (TTL) |
| max. switching frequency (DC control voltage) | 2.4 kHz | | |

General data

| | |
|-----------------------|-------|
| Mounting rail | TS 35 |
| Test button available | No |

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| | | |
|------------------------------------|--------------------------|---------|
| 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 | III | Clearance and creepage distances for control side - load side | ≥ 5.5 mm |
| Dielectric strength for control side - load side | 1 kVeff / 1 s | Dielectric strength to mounting rail | 4 kVeff / 1 Min. |
| Impulse withstand voltage | 6 kV (1.2/50 µs) | Protection degree | IP20 |

Further details of approvals / standards

| | | | |
|-----------------------|-----------------|-------------------------|----------|
| Certificate No. (CSA) | 154685-1 198742 | Certificate No. (cURus) | E14 1197 |
|-----------------------|-----------------|-------------------------|----------|

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 16 (AWG) | | 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 |

Important note

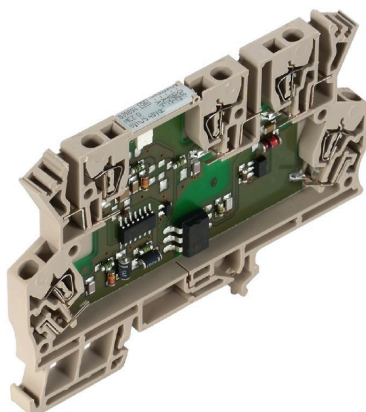
| | |
|---------------------|---|
| Product information | The cable lengths must not exceed 30 m. |
|---------------------|---|

Classifications

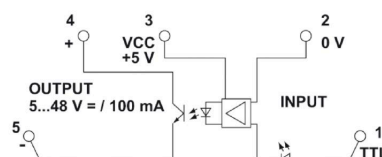
| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001504 | ETIM 7.0 | EC001504 |
| ETIM 8.0 | EC001504 | ETIM 9.0 | EC001504 |
| ETIM 10.0 | EC001504 | ECLASS 9.0 | 27-37-16-04 |
| ECLASS 9.1 | 27-37-16-04 | ECLASS 10.0 | 27-37-16-04 |
| ECLASS 11.0 | 27-37-16-04 | ECLASS 12.0 | 27-37-16-04 |
| ECLASS 13.0 | 27-37-16-04 | ECLASS 14.0 | 27-37-16-04 |
| ECLASS 15.0 | 27-37-16-04 | | |

Drawings

Wiring diagram

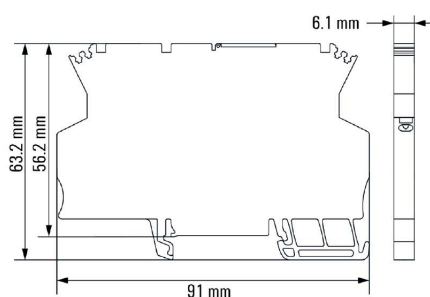


Similar to illustration



Schaltsymbol

Dimensional drawing



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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ZQV 4N/20 GE | Version |
| Order No. | 1909020000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535644 | |
| Qty. | 20 ST | |
| Type | ZQV 4N/20 RT | Version |
| Order No. | 1909150000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535934 | |
| Qty. | 20 ST | |
| Type | ZQV 4N/20 BL | Version |
| Order No. | 1909100000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535774 | |
| Qty. | 20 ST | |
| Type | ZQV 4N/2 SW | Version |
| Order No. | 1793970000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233762 | |
| Qty. | 60 ST | |
| Type | ZQV 4N/3 SW | Version |
| Order No. | 1794000000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233793 | |
| Qty. | 60 ST | |
| Type | ZQV 4N/4 SW | Version |
| Order No. | 1794030000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233915 | |
| Qty. | 60 ST | |
| Type | ZQV 4N/10 SW | Version |
| Order No. | 1794060000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248234059 | |
| Qty. | 20 ST | |
| 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 ST | |

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AP MCZ 1.5 - End plate

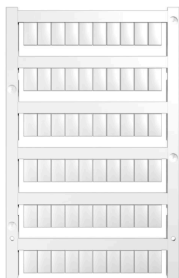


Open miniature housing in modular terminal format with five tension clamp connections. A transparent hinged top plate can be used for labelling and provides access to potentiometer and status displays. Plug-in cross-connectors can be used to interconnect the three top connections. A cover plate for closing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

General ordering data

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

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 ST | |

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.

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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 ST | |
| 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 ST | |
| 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 ST | |

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General ordering data

| | | |
|------------|----------------------------|---|
| Type | ZQV 4N/2 | Version |
| Order No. | 1527930000 | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: |
| GTIN (EAN) | 4050118332766 | 2, Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/3 | Version |
| Order No. | 1527940000 | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: |
| GTIN (EAN) | 4050118332865 | 3, Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/4 | Version |
| Order No. | 1527970000 | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: |
| GTIN (EAN) | 4050118332889 | 4, Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/10 | Version |
| Order No. | 1528090000 | Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: |
| GTIN (EAN) | 4050118332896 | 10, Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm |
| Qty. | 20 ST | |
| Type | ZQV 4N/2 RD | Version |
| Order No. | 2460450000 | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 2, |
| GTIN (EAN) | 4050118476149 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/3 RD | Version |
| Order No. | 2460810000 | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 3, |
| GTIN (EAN) | 4050118476231 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm |
| Qty. | 60 ST | |

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| | | |
|------------|----------------------------|---|
| Type | ZQV 4N/4 RD | Version |
| Order No. | 2460800000 | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 4, |
| GTIN (EAN) | 4050118476224 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/10 RD | Version |
| Order No. | 2460740000 | Cross-connector (terminal), Plugged, red, 32 A, Number of poles: 10, |
| GTIN (EAN) | 4050118476163 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm |
| Qty. | 20 ST | |
| Type | ZQV 4N/2 BL | Version |
| Order No. | 1528040000 | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 2, |
| GTIN (EAN) | 4050118332773 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/3 BL | Version |
| Order No. | 1528080000 | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 3, |
| GTIN (EAN) | 4050118333008 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/4 BL | Version |
| Order No. | 1528120000 | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 4, |
| GTIN (EAN) | 4050118332872 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm |
| Qty. | 60 ST | |
| Type | ZQV 4N/10 BL | Version |
| Order No. | 1528230000 | Cross-connector (terminal), Plugged, blue, 32 A, Number of poles: 10, |
| GTIN (EAN) | 4050118333138 | Pitch in mm (P): 6.10, Insulated: Yes, Width: 58.7 mm |
| Qty. | 20 ST | |