

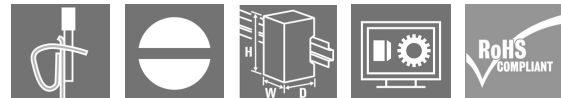
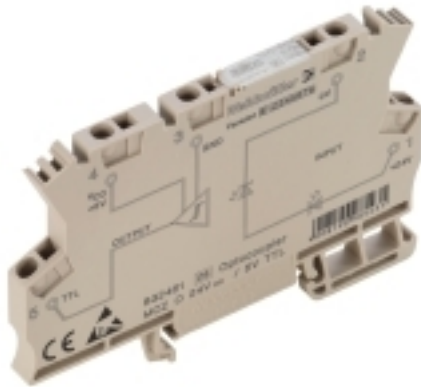
**MCZ O 5VTTL****Weidmüller Interface GmbH & Co. KG**

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 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 relay, Rated control voltage: 5 V TTL , Rated switching voltage: 5...48 V DC, Continuous current: 100 mA, Tension-clamp connection |
| Order No.  | <a href="#">8398940000</a>   |
| Type       | MCZ O 5VTTL  |
| GTIN (EAN) | 4008190985448  |
| Qty.       | 10 pc(s).  |

## MCZ O 5VTTL

Weidmüller Interface GmbH &amp; Co. KG

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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 | 20.2 g  |                 |            |

## Temperatures

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

## Probability of failure

|      |             |
|------|-------------|
| MTTF | 2,114 Jahre |
|------|-------------|

## 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 $\pm$ 5 % |

## Load side

|   |               |                     |                    |
|---|---------------|---------------------|--------------------|
| Rated switching voltage                       | 5...48 V DC   | Continuous current  | 0.1 A              |
| Switch-on delay                               | <17 $\mu$ s   | Switch-off delay    | <250 $\mu$ s       |
| Voltage drop at max. load                     | $\leq$ 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

|                                    |                          |         |
|------------------------------------|--------------------------|---------|
| Rail                               | TS 35                    |         |
| Test button available              | No                       |         |
| 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 | $\geq$ 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 $\mu$ s)     | Protection degree   | IP20                         |

## Further details of approvals / standards

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

## MCZ O 5VTTL

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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 <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    |
| ETIM 8.0    | EC001504    | ETIM 9.0    | 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 |

## 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 | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>            |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| User Documentation                          | <a href="#">Device description – Beipackzettel / Package Insert – multilingual</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   |  |

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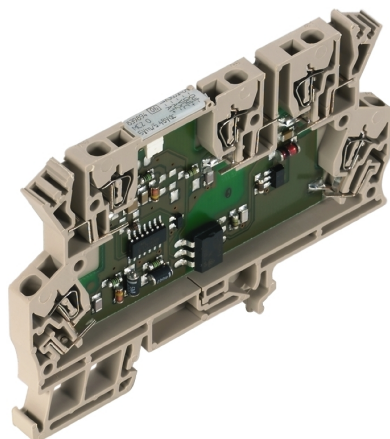
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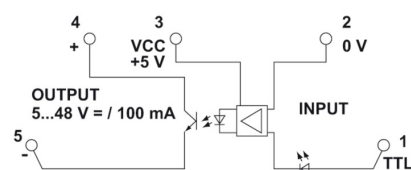
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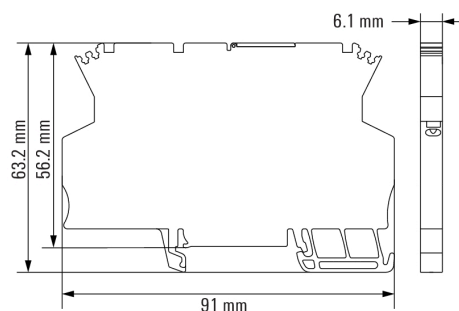
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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Wiring diagram**

Similar to illustration



Schaltsymbol

**Dimensional drawing**

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Germany

[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.  | <a href="#">1828450000</a> | WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |
| GTIN (EAN) | 4032248350513              | Allen-Bradley, white   |
| Qty.       | 600 pc(s).                 |  |

**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.  | <a href="#">2749810000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118897012              | thickness (A): 0.6 mm   |
| Qty.       | 1 pc(s).                   |   |

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## Accessories

## 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.  | <a href="#">2749340000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118895568              | thickness (A): 0.6 mm   |
| Qty.       | 1 pc(s).                   |   |

4 mm<sup>2</sup>

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/4 SW                | Version                         |
| Order No.  | <a href="#">1794030000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233915              |                                 |
| Qty.       | 60 pc(s).                  |                                 |
| Type       | ZQV 4N/20 RT               | Version                         |
| Order No.  | <a href="#">1909150000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535934              |                                 |
| Qty.       | 20 pc(s).                  |                                 |
| Type       | ZQV 4N/20 BL               | Version                         |
| Order No.  | <a href="#">1909100000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535774              |                                 |
| Qty.       | 20 pc(s).                  |                                 |
| Type       | ZQV 4N/20 GE               | Version                         |
| Order No.  | <a href="#">1909020000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535644              |                                 |
| Qty.       | 20 pc(s).                  |                                 |
| Type       | ZQV 4N/2 SW                | Version                         |
| Order No.  | <a href="#">1793970000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233762              |                                 |
| Qty.       | 60 pc(s).                  |                                 |

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## Accessories

|            |                            |                                 |
|------------|----------------------------|---------------------------------|
| Type       | ZQV 4N/3 SW                | Version                         |
| Order No.  | <a href="#">1794000000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233793              |                                 |
| Qty.       | 60 pc(s).                  |                                 |
| Type       | ZQV 4N/10 SW               | Version                         |
| Order No.  | <a href="#">1794060000</a> | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248234059              |                                 |
| Qty.       | 20 pc(s).                  |                                 |

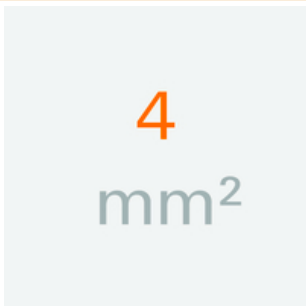
## Slotted screwdriver



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.  | <a href="#">2749610000</a> | 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).                   |   |

4 mm<sup>2</sup>

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/3                   | Version   |
| Order No.  | <a href="#">1527940000</a> | Cross-connector (terminal), Plugged, Number of poles: 3, Pitch in mm  |
| GTIN (EAN) | 4050118332865              | (P): 6.10, Insulated: Yes, 32 A, orange                               |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/10 RD               | Version   |
| Order No.  | <a href="#">2460740000</a> | Cross-connector (terminal), Plugged, Number of poles: 10, Pitch in mm |
| GTIN (EAN) | 4050118476163              | (P): 6.10, 32 A, red  |
| Qty.       | 20 pc(s).                  |   |
| Type       | ZQV 4N/2 BL                | Version   |
| Order No.  | <a href="#">1528040000</a> | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm  |
| GTIN (EAN) | 4050118332773              | (P): 6.10, Insulated: Yes, 32 A, blue                                 |
| Qty.       | 60 pc(s).                  |   |

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## Accessories

|            |                            |   |
|------------|----------------------------|---|
| Type       | ZQV 4N/10 BL               | Version   |
| Order No.  | <a href="#">1528230000</a> | Cross-connector (terminal), Plugged, Number of poles: 10, Pitch in mm |
| GTIN (EAN) | 4050118333138              | (P): 6.10, Insulated: Yes, 32 A, blue                                 |
| Qty.       | 20 pc(s).                  |   |
| Type       | ZQV 4N/3 RD                | Version   |
| Order No.  | <a href="#">2460810000</a> | Cross-connector (terminal), Plugged, Number of poles: 3, Pitch in mm  |
| GTIN (EAN) | 4050118476231              | (P): 6.10, 32 A, red  |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/3 BL                | Version   |
| Order No.  | <a href="#">1528080000</a> | Cross-connector (terminal), Plugged, Number of poles: 3, Pitch in mm  |
| GTIN (EAN) | 4050118333008              | (P): 6.10, Insulated: Yes, 32 A, blue                                 |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/10                  | Version   |
| Order No.  | <a href="#">1528090000</a> | Cross-connector (terminal), Plugged, Number of poles: 10, Pitch in mm |
| GTIN (EAN) | 4050118332896              | (P): 6.10, Insulated: Yes, 32 A, orange                               |
| Qty.       | 20 pc(s).                  |   |
| Type       | ZQV 4N/4 BL                | Version   |
| Order No.  | <a href="#">1528120000</a> | Cross-connector (terminal), Plugged, Number of poles: 4, Pitch in mm  |
| GTIN (EAN) | 4050118332872              | (P): 6.10, Insulated: Yes, 32 A, blue                                 |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/4                   | Version   |
| Order No.  | <a href="#">1527970000</a> | Cross-connector (terminal), Plugged, Number of poles: 4, Pitch in mm  |
| GTIN (EAN) | 4050118332889              | (P): 6.10, Insulated: Yes, 32 A, orange                               |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/4 RD                | Version   |
| Order No.  | <a href="#">2460800000</a> | Cross-connector (terminal), Plugged, Number of poles: 4, Pitch in mm  |
| GTIN (EAN) | 4050118476224              | (P): 6.10, Insulated: Yes, 32 A, red                                  |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/2                   | Version   |
| Order No.  | <a href="#">1527930000</a> | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm  |
| GTIN (EAN) | 4050118332766              | (P): 6.10, Insulated: Yes, 32 A, orange                               |
| Qty.       | 60 pc(s).                  |   |
| Type       | ZQV 4N/2 RD                | Version   |
| Order No.  | <a href="#">2460450000</a> | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm  |
| GTIN (EAN) | 4050118476149              | (P): 6.10, 32 A, red  |
| Qty.       | 60 pc(s).                  |   |



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## Accessories

2.5 mm<sup>2</sup>2.5  
mm<sup>2</sup>

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.  | <a href="#">1909130000</a> | W-Series, Cross-connector, For the terminals, Number of poles: 20 |
| GTIN (EAN) | 4032248535910              |   |
| Qty.       | 20 pc(s).                  |   |

## 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.  | <a href="#">8389030000</a> | Small housing, OMNIMATE Housing - TERMINALBOX grey-beige, End |
| GTIN (EAN) | 4008190386849              | plate, Width: 1.5 mm  |
| Qty.       | 50 pc(s).                  |   |