

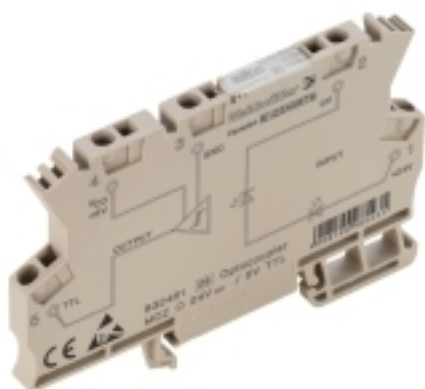
**MCZ O 5VTTL****Weidmüller Interface GmbH & Co. KG**

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: 0.1 A, 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

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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    |
| 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 |             |             |

## 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 |

## Important note

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

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319226/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Certificate No. (cURus) | E141197                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

### MCZ O 5VTTL

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

### 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

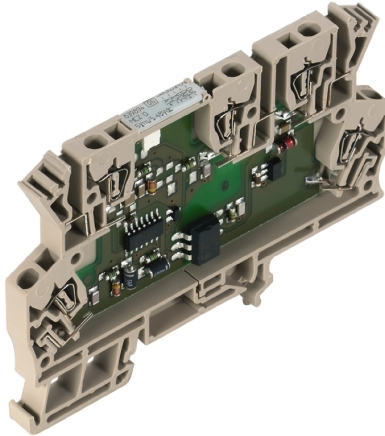
[Catalogues in PDF-format](#)

Brochures

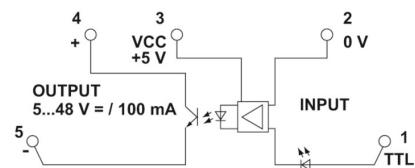
**MCZ O 5VTTL**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

**Drawings****Wiring diagram**

Similar to illustration



Schaltsymbol

**Dimensional drawing**