

MCZ R 48...110VDC 1CO AU TRAK

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

www.weidmueller.com

Product image



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 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 TRAK, Relay module, Number of contacts: 1, CO contact AgSnO gold-plated, Rated control voltage: 48 V... 110 V DC +25 % / -30 %, Continuous current: 6 A, Tension-clamp connection, Test button available: No |
| Order No. | 8790500000 |
| Type | MCZ R 48... 110VDC 1CO AU TRAK |
| GTIN (EAN) | 4032248479511 |
| Qty. | 10 Stück |

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Technische Daten

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 | 28 g | | |

Temperatures

| | | | |
|-----------------------------|--|----------------------------------|-----------------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
| Operating temperature, min. | -25 °C | Operating temperature, max. | 70 °C |
| Humidity | 95 % for 30 days, minimal condensation to EN 50155 | Note: room temperature (service) | +85 °C for 10 minutes |

Control side

| | | | |
|--|-------------------------------|--------------------------------|--|
| Rated control voltage | 48 V...110 V DC +25 % / -30 % | Rated current DC | < 3 mA |
| Power rating | < 300 mW | Pull-in/drop-out voltage, typ. | 25 V / 6 V DC |
| Status indicator | Green LED | Protective circuit | Free-wheeling diode, Varistor, Reverse polarity protection |
| Max. reset time after voltage interruption 10 ms | | | |

Load side

| | | | |
|---|---------------------------------------|---|----------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 6 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, DC | 250 V |
| Inrush current | 6 A | AC switching capacity (resistive), max. | 1500 VA |
| DC switching capacity (resistive), max. | 120 W @ 24 V | Switch-on delay | < 4 ms |
| Switch-off delay | < 100 ms | Contact type | 1 CO contact (AgSnO gold-plated) |
| Mechanical service life | 10 x 10 ⁶ switching cycles | Min. switching power | 1 mA @ 1 V |

General data

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

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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 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ECLASS 9.0 | 27-37-16-01 |
| ECLASS 9.1 | 27-37-16-01 | ECLASS 10.0 | 27-37-16-01 |
| ECLASS 11.0 | 27-37-16-01 | ECLASS 12.0 | 27-37-16-01 |

Environmental Product Compliance

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

Approvals

Approvals



| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD, Zuken E3.S, EPLAN |
| User Documentation | Beipackzettel / Package Insert – multilingual |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

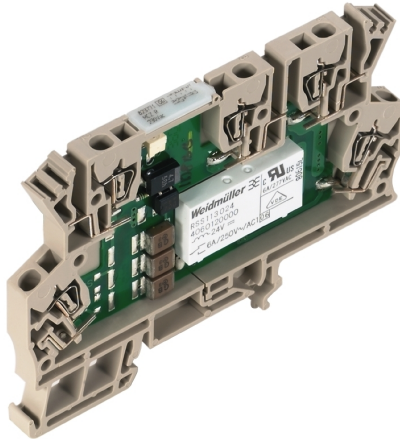
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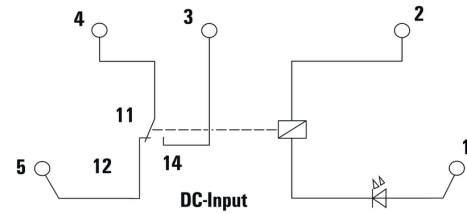
Zeichnungen

Product image

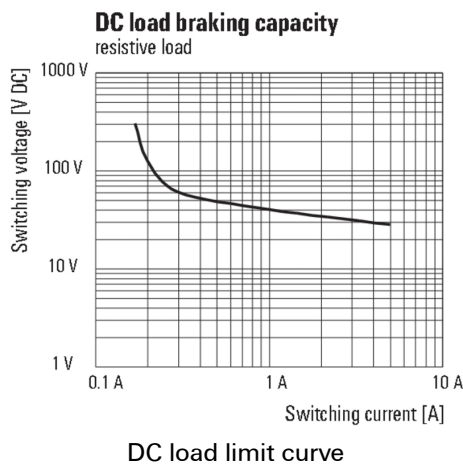


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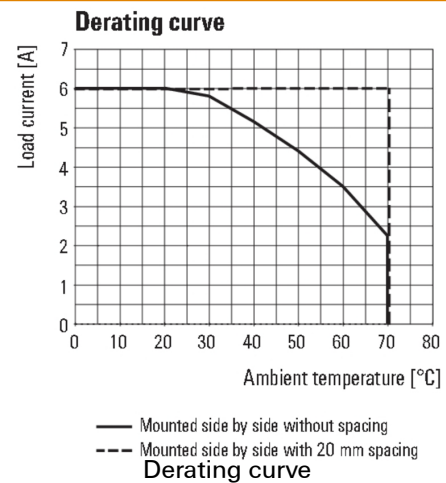
Wiring diagram



Graph



Graph



Dimensional drawing

