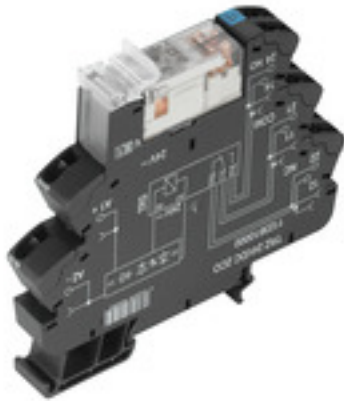


**TRZ 24VDC 2CO AU****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

- 2 CO contacts
- Contact material: AgNi 5µm Au
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 5 V DC to 230 V UC with coloured marking: AC: red, DC: blue, UC: white

**General ordering data**

|            |                                                                                                                                                                             |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi gold-plated, Rated control voltage: 24 V DC $\pm 20\%$ , Continuous current: 8 A, Tension-clamp connection |
| Order No.  | <a href="#">1123850000</a>                                                                                                                                                  |
| Type       | TRZ 24VDC 2CO AU                                                                                                                                                            |
| GTIN (EAN) | 4032248905492                                                                                                                                                               |
| Qty.       | 10 pc(s).                                                                                                                                                                   |

Creation date March 23, 2021 1:01:55 AM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 87.8 mm    | Depth (inches)  | 3.457 inch |
| Height         | 90.5 mm    | Height (inches) | 3.563 inch |
| Net weight     | 56.4 g     | Width           | 12.8 mm    |
| Width (inches) | 0.504 inch |                 |            |

## Temperatures

|                     |                                                                            |                       |                |
|---------------------|----------------------------------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C                                                             | Operating temperature | -40 °C...60 °C |
| Humidity            | 5-95% relative humidity,<br>T <sub>u</sub> = 40°C, without<br>condensation |                       |                |

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Rated data UL

|                                    |                                                      |                                         |        |
|------------------------------------|------------------------------------------------------|-----------------------------------------|--------|
| Operating altitude                 | ≤ 2000 m, above sea level                            | Ambient temperature (operational), max. | 60 °C  |
| Connection cross-section AWG, min. | AWG 26                                               | Connection cross-section AWG, max.      | AWG 14 |
| Type of conductor                  | rigid copper conductor,<br>flexible copper conductor | Pollution severity level                | 2      |

## Control side

|                                       |                 |                                                                                   |                                                     |
|---------------------------------------|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------|
| Coil voltage of the replacement relay | 24 V DC         | Coil voltage of the replacement relay<br>deviating from the rated control voltage | No                                                  |
| Power rating                          | 495 mW          | Protective circuit                                                                | Free-wheeling diode,<br>Reverse polarity protection |
| Pull-in/drop-out current, typ.        | 14 mA / 2 mA DC | Pull-in/drop-out voltage, typ.                                                    | 17 V / 3 V DC                                       |
| Rated control voltage                 | 24 V DC ± 20 %  | Rated current DC                                                                  | 20.5 mA                                             |
| Status indicator                      | Green LED       |                                                                                   |                                                     |

## Load side

|                                         |              |                            |            |
|-----------------------------------------|--------------|----------------------------|------------|
| AC switching capacity (resistive), max. | 2000 VA      | Continuous current         | 8 A        |
| DC switching capacity (resistive), max. | 192 W @ 24 V | Inrush current             | 15 A / 4 s |
| Max. switching frequency at rated load  | 0.1 Hz       | Max. switching voltage, DC | 250 V      |
| Min. switching power                    | 1 mA @ 1 V   | Rated switching voltage    | 250 V AC   |
| Switch-off delay                        | ≤ 18 ms      | Switch-on delay            | ≤ 6 ms     |

## Contact data

|              |                                 |                         |                                       |
|--------------|---------------------------------|-------------------------|---------------------------------------|
| Contact type | 2 CO contact (AgNi gold-plated) | Mechanical service life | 30 x 10 <sup>6</sup> switching cycles |
|--------------|---------------------------------|-------------------------|---------------------------------------|

## General data

|                                      |       |
|--------------------------------------|-------|
| Rail                                 | TS 35 |
| Test button                          | No    |
| Mechanical switch position indicator | No    |
| Colour                               | black |

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## Technical data

|                                    |                          |                |
|------------------------------------|--------------------------|----------------|
| UL94 flammability rating component | Component                | Housing        |
|                                    | UL94 flammability rating | V-0            |
|                                    | Component                | Retaining clip |
|                                    | UL94 flammability rating | V-0            |

## Insulation coordination

|                                                |                                 |                                              |                                |
|------------------------------------------------|---------------------------------|----------------------------------------------|--------------------------------|
| Creepage and clearance distance input – output | ≥ 6 mm                          | Dielectric strength of neighbouring contacts | 2.5 kV <sub>eff</sub> / 1 Min. |
| Dielectric strength of open contact            | 1 kV <sub>eff</sub> / 1 min     | Dielectric strength to mounting rail         | 4 kV <sub>eff</sub> / 1 Min.   |
| Dielectric strength, Input/Output              | 3.51 kV <sub>eff</sub> / 1 min. | Impulse withstand voltage                    | 6 kV (1.2/50 µs)               |
| Pollution severity                             | 2                               | Protection degree                            | IP20                           |
| Rated voltage                                  | 300 V                           | Surge voltage category                       | III                            |
| Type of isolation at input and output          | reinforced insulation           | Type of isolation at neighbouring contacts   | Basic insulation               |

## Further details of approvals / standards

|                         |                                        |                         |            |
|-------------------------|----------------------------------------|-------------------------|------------|
| Standards               | EN 50178, EN 55011, EN 61000-6-1, 2, 4 | Certificate No. (DNVGL) | TAA00001E5 |
| Certificate no. (cULus) | E141197                                |                         |            |

## 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.                                                                    | 0.14 mm <sup>2</sup> |
| Clamping range, max.                                                                    | 2.5 mm <sup>2</sup>      | Wire connection cross section AWG, min.                                                 | AWG 26               |
| Wire connection cross section AWG, max.                                                 | AWG 14                   | Wire cross-section, solid, min.                                                         | 0.14 mm <sup>2</sup> |
| Wire cross-section, solid, max.                                                         | 2.5 mm <sup>2</sup>      | Wire cross-section, solid, min. (AWG)                                                   | AWG 26               |
| Wire cross-section, solid, max. (AWG)                                                   | AWG 14                   | Wire connection cross section, finely stranded, min.                                    | 0.14 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup>      | Wire cross-section, finely stranded, min. (AWG)                                         | AWG 26               |
| Wire cross-section, finely stranded, max. (AWG)                                         | AWG 14                   | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.14 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.                              | 0.14 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup>      | Twin wire-end ferrules, min.                                                            | 0.5 mm <sup>2</sup>  |
| Twin wire-end ferrules, max.                                                            | 1 mm <sup>2</sup>        | Blade size                                                                              | 0.6 x 3.5 mm         |
| Gauge to IEC 60947-1                                                                    | A1, B1                   |                                                                                         |                      |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | 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 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

**Downloads**

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                                                    |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                |
| User Documentation                          | <a href="#">Beipackzettel / Package Insert – multilingual</a>           |

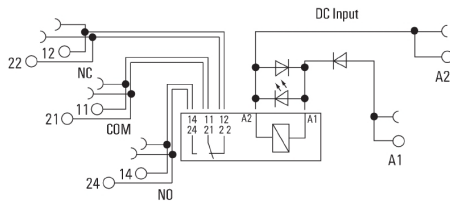
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## Drawings

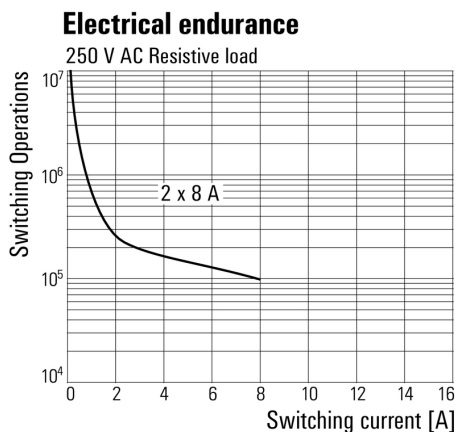
### Wiring diagram



### Graph

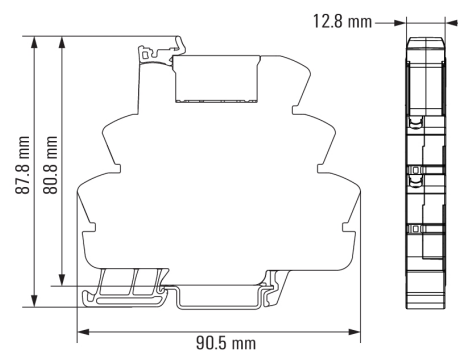


### Graph



Electrical service life 230 V AC resistive load  
230 V AC resistive load

### Dimensional drawing



## TRZ 24VDC 2CO AU

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## Drawings

### Miscellaneous

### Type code TERMSERIES electromechanical relay versions



Type codes