

**TRS 24-230VUC 2CO ED2 PB**

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

www.weidmueller.com

**Product image**



- 2 CO contact
- Contact material: AgNi
- Unique multi-voltage input from 24 to 230 V UC
- Input voltages from 24 V DC and 230 V UC with coloured marking: DC: blue, UC: white
- Version with lockable test button for manual switching

**General ordering data**

|            |   |
|------------|---|
| Version    | TERMSERIES, Relay module, Number of contacts: 2, CO contact AgNi, Rated control voltage: 24...230 V UC, Continuous current: 8 A, Screw connection, Test button available: Yes |
| Order No.  | <a href="#">2988480000</a>  |
| Type       | TRS 24-230VUC 2CO ED2 PB  |
| GTIN (EAN) | 4099986859289   |
| Qty.       | 5 items   |

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## Technical data

### Approvals

Approvals


 UL File Number Search [UL Website](#)  
 Certificate no. (cULus) E141197

### Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 97.5 mm | Depth (inches)  | 3.8386 inch |
| Height     | 89.6 mm | Height (inches) | 3.5276 inch |
| Width      | 12.8 mm | Width (inches)  | 0.5039 inch |
| Net weight | 66 g    |                 |             |

### Temperatures

|                       |                |                     |   |
|-----------------------|----------------|---------------------|---|
| Storage temperature   | -40 °C...70 °C | Ambient temperature | -40 °C...70 °C                          |
| Operating temperature |                | Humidity            | 5...85 % rel. humidity, no condensation |

### Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 9e2cbc49-76d9-4611-b8ec-5b4f549a0aa9 |

### Rated data UL

|                                    |        |                                    |        |
|------------------------------------|--------|------------------------------------|--------|
| Connection cross-section AWG, min. | AWG 26 | Connection cross-section AWG, max. | AWG 14 |
| Tightening torque, max.            | 0.4 Nm | Pollution severity level           | 2      |

### Control side

|  |               |                                       |   |
|--|---------------|---------------------------------------|---|
| Rated control voltage  | 24...230 V UC | Power rating                          | 600 mVA @ 24 V AC                                   |
| Status indicator   | Green LED     | Protective circuit                    | Free-wheeling diode,<br>Reverse polarity protection |
| Coil voltage of the replacement relay deviating from the rated control voltage | Yes           | Coil voltage of the replacement relay | 24 V DC   |

### Load side

|   |                                      |   |                     |
|---|--------------------------------------|---|---------------------|
| Rated switching voltage                 | 250 V AC                             | Continuous current                      | 8 A                 |
| Max. switching frequency at rated load  | 0.1 Hz                               | Max. switching voltage, AC              | 250 V               |
| Max. switching voltage, DC              | 250 V                                | Inrush current                          | 30 A / 4 s          |
| AC switching capacity (resistive), max. | 2000 VA                              | DC switching capacity (resistive), max. | 192W @ 24V          |
| Switch-on delay                         | ≤ 15 ms                              | Switch-off delay                        | ≤ 16 ms             |
| Protective circuit, load side           | Rectifier                            | Contact type                            | 2 CO contact (AgNi) |
| Mechanical service life                 | 5 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 100 mA @ 10 V       |

### General data

|                       |                           |
|-----------------------|---------------------------|
| Operating altitude    | ≤ 2000 m, above sea level |
| Mounting rail         | TS 35                     |
| Test button available | Yes                       |

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## Technical data

|                                      |   |                |
|--------------------------------------|---|----------------|
| Version of test button               | Lockable test button, Momentary test button |                |
| Mechanical switch position indicator | Yes   |                |
| Colour                               | black                                       |                |
| UL94 flammability rating component   | Component                                   | Housing        |
|                                      | UL94 flammability rating                    | V-0            |
|                                      | Component                                   | Pusher         |
|                                      | UL94 flammability rating                    | V-0            |
|                                      | Component                                   | Retaining clip |
|                                      | UL94 flammability rating                    | V-0            |

## Insulation coordination

|   |                  |  |                    |
|---|------------------|--|--------------------|
| 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 | 2.5 kVeff / 1 Min. |
| Dielectric strength of open contact                           | 1 kVeff / 1 min  | Dielectric strength to mounting rail             | 4 kVeff / 1 Min.   |
| Impulse withstand voltage                                     | 6 kV (1.2/50 µs) | Protection degree                                | IP20               |
| Impulse withstand voltage at neighbouring contacts            | 4 kV (1.2/50 µs) |  |                    |

## Further details of approvals / standards

|                         |         |
|-------------------------|---------|
| Certificate no. (cULus) | E141197 |
|-------------------------|---------|

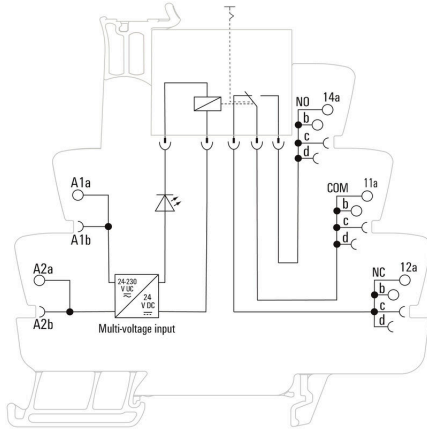
## Connection data

|   |                      |   |                     |
|---|----------------------|---|---------------------|
| Wire connection method  | Screw connection     | Stripping length, rated connection  | 8 mm                |
| Tightening torque, max.   | 0.4 Nm               | 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. | 0.25 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.25 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.               | 0.5 mm <sup>2</sup>  | Wire cross-section, finely stranded, two clampable wires, max.                          | 1 mm <sup>2</sup>   |
| Blade size  | size PHO             |   |                     |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

Wiring diagram



Graph



Dimensional drawing

