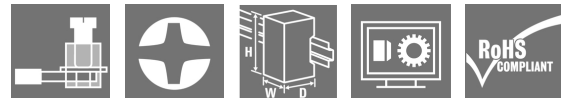


**TRS 24VUC 1CO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

- 1 CO contact
- Contact material: AgNi
- 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: 1, CO contact AgNi, Rated control voltage: 24 V UC $\pm 10\%$ , Continuous current: 6 A, Screw connection, Test button available: No |
| Order No.  | <a href="#">1122780000</a>                                                                                                                                                         |
| Type       | TRS 24VUC 1CO                                                                                                                                                                      |
| GTIN (EAN) | 4032248905041                                                                                                                                                                      |
| Qty.       | 10 pc(s).                                                                                                                                                                          |

Creation date October 30, 2021 5:03:04 AM CEST

Catalogue status 22.10.2021 / We reserve the right to make technical changes.

# TRS 24VUC 1CO

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 87.8 mm | Depth (inches)  | 3.457 inch |
| Height     | 89.6 mm | Height (inches) | 3.528 inch |
| Width      | 6.4 mm  | Width (inches)  | 0.252 inch |
| Net weight | 34 g    |                 |            |

### 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

|                                               |        |                                    |                                                      |
|-----------------------------------------------|--------|------------------------------------|------------------------------------------------------|
| 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 |
| Tightening torque, max.                       | 0.4 Nm | Pollution severity level           | 2                                                    |

### Control side

|                                                                                   |                                |                                       |                                    |
|-----------------------------------------------------------------------------------|--------------------------------|---------------------------------------|------------------------------------|
| Rated control voltage                                                             | 24 V UC ± 10 %                 | Rated current DC                      | 6.4 mA                             |
| Rated current AC                                                                  | 11.7 mA                        | Power rating                          | 270 mVA / 154 mW                   |
| Pull-in/drop-out voltage, typ.                                                    | 16 V / 5 V AC<br>20 V / 6 V DC | Pull-in/drop-out current, typ.        | 8.5 mA / 2 mA AC<br>5 mA / 1 mA DC |
| Status indicator                                                                  | Green LED                      | Protective circuit                    | Rectifier                          |
| Coil voltage of the replacement relay<br>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                      | 6 A                                  |
| Max. switching frequency at rated load  | 0.1 Hz                                     | Max. switching voltage, DC              | 250 V                                |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12 V,<br>100 mA @ 5 V | Inrush current                          | 20 A / 20 ms                         |
| AC switching capacity (resistive), max. | 1500 VA                                    | DC switching capacity (resistive), max. | 144 W @ 24 V                         |
| Switch-on delay                         | ≤ 6 ms                                     | Switch-off delay                        | ≤ 40 ms                              |
| Contact type                            | 1 CO contact (AgNi)                        | Mechanical service life                 | 5 x 10 <sup>6</sup> switching cycles |

### General data

|                                      |                           |                |  |
|--------------------------------------|---------------------------|----------------|--|
| Operating altitude                   | ≤ 2000 m, above sea level |                |  |
| Rail                                 | TS 35                     |                |  |
| Test button available                | No                        |                |  |
| Mechanical switch position indicator | No                        |                |  |
| Colour                               | black                     |                |  |
| UL94 flammability rating component   | Component                 | Housing        |  |
|                                      | UL94 flammability rating  | V-0            |  |
|                                      | Component                 | Retaining clip |  |
|                                      | UL94 flammability rating  | V-0            |  |

## TRS 24VUC 1CO

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Insulation coordination

|                                                  |                              |                                                               |                             |
|--------------------------------------------------|------------------------------|---------------------------------------------------------------|-----------------------------|
| Rated voltage                                    | 300 V                        | Pollution severity                                            | 2                           |
| Surge voltage category                           | III                          | Clearance and creepage distances for control side - load side | ≥ 6 mm                      |
| Dielectric strength for control side - load side | 4 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. | Impulse withstand voltage                                     | 6 kV (1.2/50 μs)            |
| Protection degree                                | IP20                         |                                                               |                             |

## 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                                                                  | 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.                              | 2.5 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>   |
| Twin wire-end ferrules, min.                                                            | 0.5 mm <sup>2</sup>  | Twin wire-end ferrules, max.                                                            | 1 mm <sup>2</sup>   |
| Blade size                                                                              | size PH0             | Gauge to IEC 60947-1                                                                    | A1, B1              |

## 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 |             |             |

## Approvals

Approvals



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

## TRS 24VUC 1CO

**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 | <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>           |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |
| Brochures                                   |                                                                         |

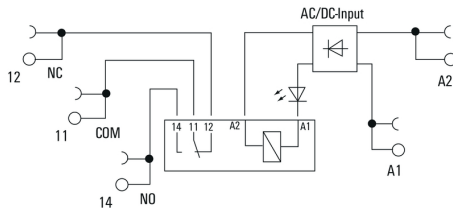
## TRS 24VUC 1CO

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

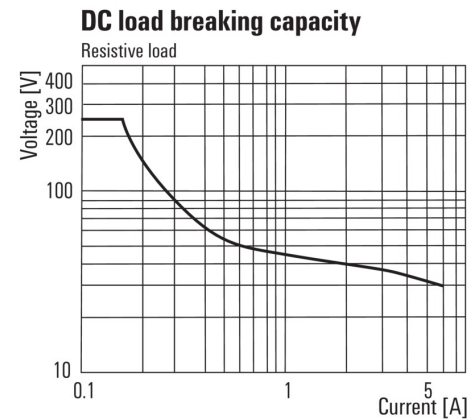
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

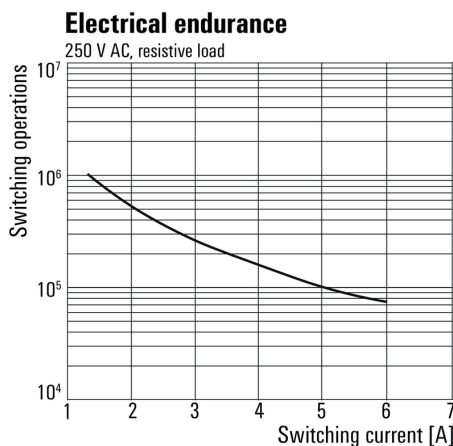
### Wiring diagram



### Graph

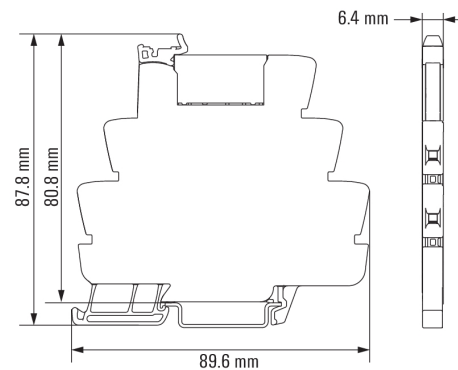


### Graph



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

### Dimensional drawing



## TRS 24VUC 1CO

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

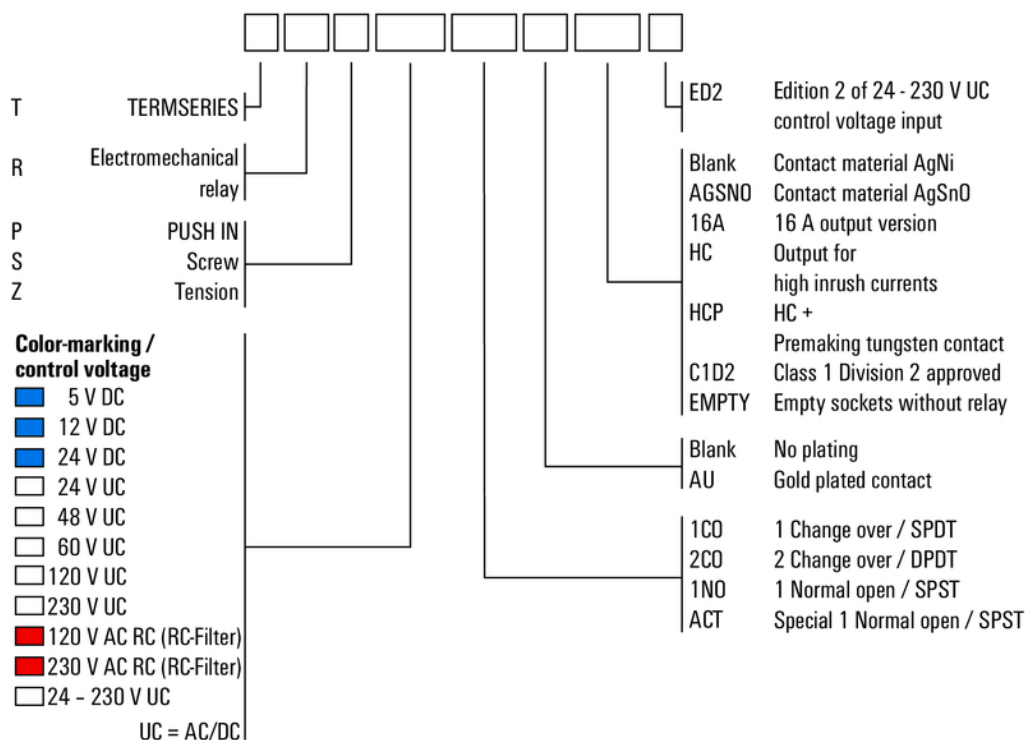
Germany

www.weidmueller.com

## Drawings

## Miscellaneous

## Type code TERMSERIES electromechanical relay versions



Type codes