

**TRS 48VUC 2CO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

Similar to illustration

- 2 CO contacts
- 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: 2, CO contact AgNi, Rated control voltage: 48 V UC $\pm 10\%$ , Continuous current: 8 A, Screw connection, Test button available: No
Order No.	<a href="#">1123510000</a>
Type	TRS 48VUC 2CO
GTIN (EAN)	4032248905829
Qty.	10 pc(s).

Creation date February 17, 2023 11:57:10 AM CET

Catalogue status 03.02.2023 / We reserve the right to make technical changes.

## TRS 48VUC 2CO

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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	12.8 mm	Width (inches)	0.504 inch
Net weight	57 g		

### Temperatures

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

### 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, flexible copper conductor
Tightening torque, max.	0.4 Nm	Pollution severity level	2

### Control side

Rated control voltage	48 V UC ±10 %	Rated current AC	9 mA
Rated current DC	7 mA	Power rating	340 mW / 0.4 VA
Pull-in/drop-out voltage, typ.	29 V / 11 V AC 33 V / 11 V DC	Pull-in/drop-out current, typ.	6 mA / 3 mA AC 5 mA / 1.5 mA DC
Status indicator	Green LED	Protective circuit	Rectifier
Coil voltage of the replacement relay deviating from the rated control voltage	Yes	Coil voltage of the replacement relay	48 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, DC	250 V
Inrush current	15 A / 4 s	AC switching capacity (resistive), max.	2000 VA
DC switching capacity (resistive), max.	192 W @ 24 V	Switch-on delay	≤ 11 ms
Switch-off delay	≤ 7 ms	Contact type	2 CO contact (AgNi)
Mechanical service life	30 x 10 <sup>6</sup> switching cycles	Min. switching power	1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V

### 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 48VUC 2CO

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	3.51 kV <sub>eff</sub> / 1 min.	Type of isolation at input and output	reinforced insulation
Dielectric strength of neighbouring contacts	2.5 kV <sub>eff</sub> / 1 Min.	Type of isolation at neighbouring contacts	Basic insulation
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

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 16
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>
Twin wire-end ferrules, min.	0.5 mm <sup>2</sup>	Twin wire-end ferrules, max.	1 mm <sup>2</sup>
Blade size	size PHO	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	ECLASS 12.0	27-37-16-01

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Creation date February 17, 2023 11:57:10 AM CET

Catalogue status 03.02.2023 / We reserve the right to make technical changes.

3

**TRS 48VUC 2CO**

**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="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD, Zuken E3.S</a>
User Documentation	<a href="#">Beipackzettel / Package Insert – multilingual</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

---

**TRS 48VUC 2CO**

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

www.weidmueller.com

**Drawings**

**Wiring diagram**

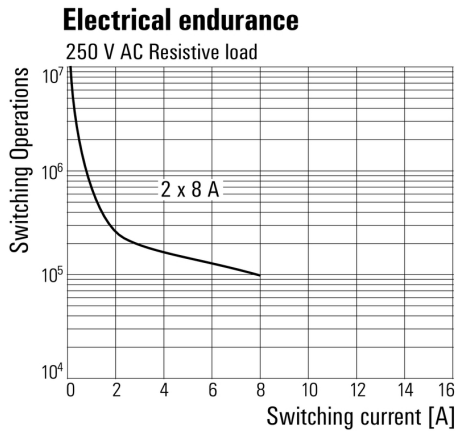


**Graph**



DC load limit curve  
 Resistive load

**Graph**



Electrical service life  
 230 V AC resistive load

**Dimensional drawing**



