TRP 24VUC 2CO FG

Proven switching condition monitoring of signals
In safety-related applications, relays with positively-driven contacts have proven themselves many times over. The positively-driven operation ensures a synchronous switching status at both contacts,so that the signal contact maintains the same switching status in theevent of an error. Thus, diagnostic coverage of 99% is achieved. Our TERMSERIES relay modules are predestined for secure signal monitoring in a wide range of applications. Their switching function is clearly indicated by an illuminated ejection lever, which also has an integrated marker holder. Compatibility with all accessories from the TERMSERIES allows high flexibility and easy integration into existing systems. TERMSERIES relay modules have the cULus certification required for use in the North American market.

- 2 CO contacts with 6 A, forcibly guided according to EN 61810-3 type B
- Positive guidance ensures a synchronous switching status at both contacts and achieves a diagnostic coverage of 99%
- UL approval for the North American market
- Ejection lever with integrated marker channels

General ordering data

Version	TERMSERIES, Relay module with positively driven contacts, Number of contacts: 2, CO contacts forcibly guided (EN 61810-3 type B) AgNi, Rated control voltage: 24 V UC ±10 %, Continuous current: 6 A, PUSH IN, Test button available: No
Order No.	2706430000
Type	TRP 24VUC 2CO FG
GTIN (EAN)	4050118892819
Qty.	5 items

Data sheet

TRP 24VUC 2CO FG

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

www.weidmueller.com

Technical data

Approvals

Approvals	
	CE cULus LISTED UKCA
ROHS	Conform
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	60.5 g		

Temperatures

Storage temperature	-25 °C...70 °C	Ambient temperature	-25 °C...60 °C
Operating temperature		Humidity	5...85 %, no condensation

Environmental Product Compliance

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

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
Pollution severity level	2		

Control side

Rated control voltage	24 V UC ±10 %	Rated current AC	24.4 mA
Rated current DC	23.5 mA	Power rating	585 mVA, 565 mW
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	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, AC	250 V
Max. switching voltage, DC	250 V	AC switching capacity (resistive), max.	1500 VA
DC switching capacity (resistive), max.	144 W @ 24 V	Switch-on delay	≤ 30 ms
Switch-off delay	<20 ms	Contact type	2 CO contacts forcibily guided (EN 61810-3 type B) (AgNi)
Mechanical service life	10 x 106 switching cycles	Min. switching power	10 mA @ 5 V

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TRP 24VUC 2CO FG

Technical data

General data

Operating altitude	≤ 2000 m, above sea level	Mounting rail	TS 35
Test button available	No	Mechanical switch position indicator	No
Colour	black		

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 kVeff / 1 min.	Type of isolation at input and output	reinforced insulation
Dielectric strength of neighbouring contacts	2.21 kVeff/ 1 min	Type of isolation at neighbouring contacts	Basic insulation
Dielectric strength of open contact	1.5 kVeff / 1 min.	Dielectric strength to mounting rail	3.51 kVeff / 1 min.
Protection degree	IP20	Impulse withstand voltage at neighbouring contacts	4 kV (1.2/50 µs)

Further details of approvals / standards

Standards	EN 61326-1, EN 61010-2-201	Certificate no. (cULus)	E141197

Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.14 mm²
Clamping range, max.	2.5 mm²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 14	Wire cross-section, solid, min.	0.14 mm²
Wire cross-section, solid, max.	1.5 mm²	Wire cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 16	Wire connection cross section, finely stranded, min.	0.14 mm²
Wire connection cross section, finely stranded, max.	2.5 mm²	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.	0.15 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.15 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Blade size	0.4 x 2.0 mm

Classifications

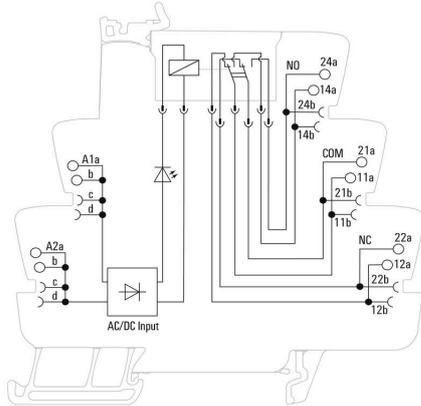|			
ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

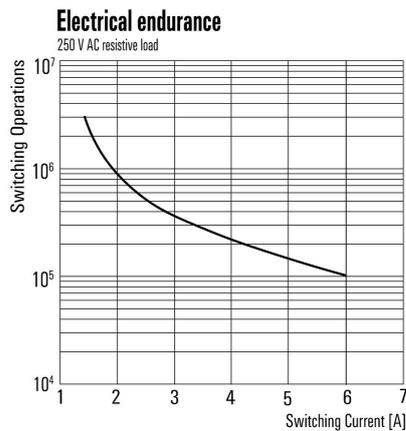# TRP 24VUC 2CO FG
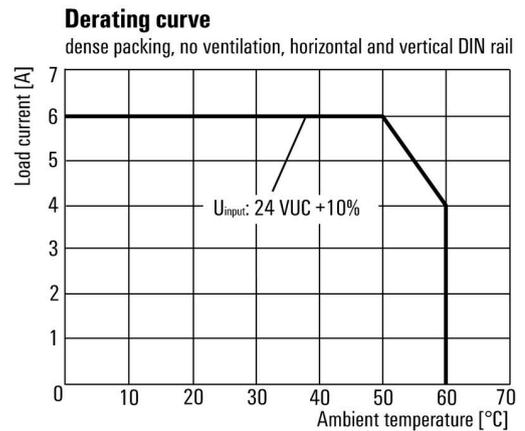
Drawings

Wiring diagram

Graph
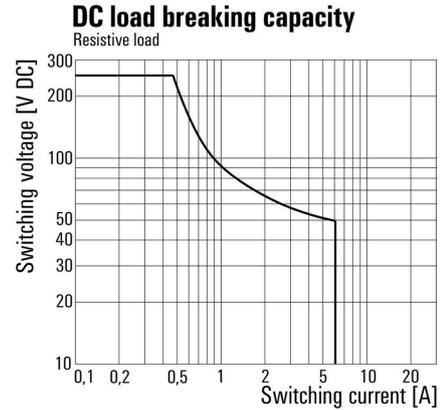
DC load limit curve Resistive load

Graph

Electrical service life230 V AC resistive load

Graph

Derating curve

Dimensional drawing

TRP 24VUC 2CO FG

5

Drawings
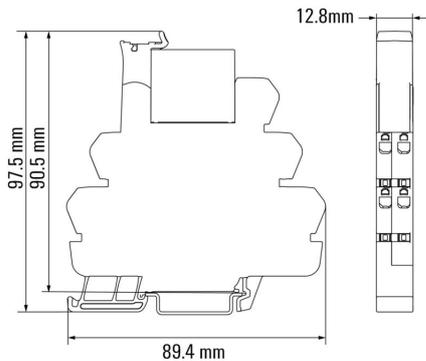
Miscellaneous

Type code TERMSERIES electromechanical relay versions
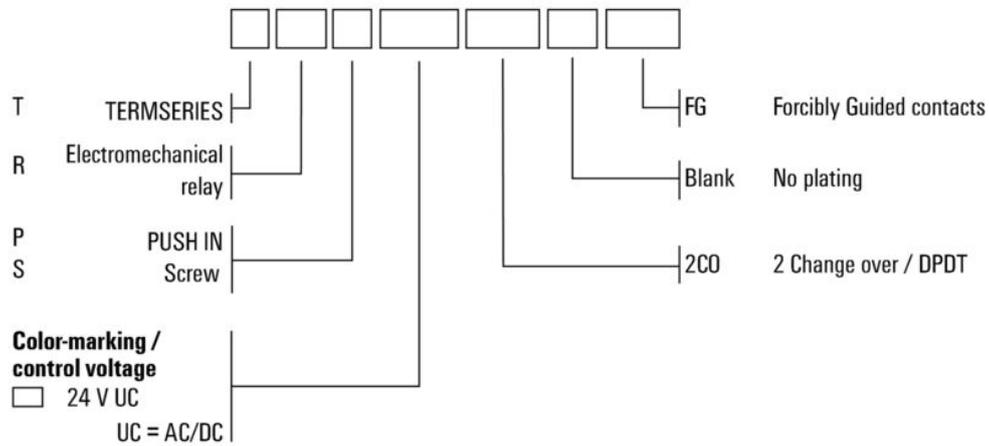
Type codes

TRP 24VUC 2CO FG

Accessories

Partition plate

Versatile separation plates
Separation plates can be used to group together signals visually, to electrically
isolate modules and to insert markings for a better overview. This makes
them a particularly versatile accessory. Separation plates increase the
clearance and creepage distances between two modules, thus increasing
the rated insulation voltage between two modules to up to 600 V. Double
separation plates can be marked with WAD5 or WS10/5 markers and
enable continuous cross-connections. Installation is made easier with the
perforations to individually break out the cross-connection channels.

- Partition plates visually separates groups from each other
- Indentations for individual breaking out the crosscconnection channels
- Partition plates isolates between two modules by increasing the clearance and creepage distances of up to 600 V

General ordering data

Type	TW TXS/TXZ R3.2	Version
Order No.	1240800000	TERMSERIES, Partition plate
GTIN (EAN)	4050118028188	
Qty.	10 ST	

Supply module

Space-saving supply modules
Our supply terminals enable potentials to be fed at the input – e.g.
neutral or minus potentials – or switched potentials to be fed at the output. In
conjunction with precisely fitting cross-connections from the TEMRSERIES,
the connections for the cables on the relay module remain free for actuators
or sensors. No additional feed-through terminal blocks are required, resulting
in huge space savings in the panel. At the same time, the wiring is simplified
as no double wire-end ferrules are required for the potential feed.

General ordering data

Type	TXP SUPPLY	Version
Order No.	2618940000	TERMSERIES, Supply module, Number of contacts: 5, , Continuous
GTIN (EAN)	4050118667592	current: 10 A, PUSH IN
Qty.	10 ST	

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Accessories

Type	TXS SUPPLY	Version	
Order No.	1240780000	TERMSERIES, Supply module, Number of contacts: 5, , Continuous	
GTIN (EAN)	4050118028140	current: 10 A, Screw connection	
Qty.	10 ST		
Type	TXZ SUPPLY	Version	
Order No.	1240790000	TERMSERIES, Supply module, Number of contacts: 5, , Continuous	
GTIN (EAN)	4050118028164	current: 10 A, Tension-clamp connection	
Qty.	10 ST		

Blank

WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.
• Can be fitted in strips or individually
• Markers in proven MultiCard format
For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 10/6 M MC NE WS	Version	
Order No.	1818400000	WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller,	
GTIN (EAN)	4032248310876	Allen-Bradley, white	
Qty.	600 ST		

ZQV

General ordering data

Type	ZQV 1.5N/R6.4/2 GE	Version	
Order No.	1193670000	TERMSERIES, Cross-connector	
GTIN (EAN)	4032248976638		
Qty.	10 ST		
Type	ZQV 1.5N/R6.4/10 GE	Version	
Order No.	1193680000	TERMSERIES, Cross-connector	
GTIN (EAN)	4032248976454		
Qty.	10 ST		

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Accessories

Type	ZQV 1.5N/R6.4/19 GE	Version
Order No.	1193690000	TERMSERIES, Cross-connector
GTIN (EAN)	4032248976645	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/2 BL	Version
Order No.	1446140000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118251074	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/10 BL	Version
Order No.	1390350000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118190793	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/19 BL	Version
Order No.	1391620000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118191813	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/2 RT	Version
Order No.	1446090000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118250886	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/10 RT	Version
Order No.	1391640000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118191660	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/19 RT	Version
Order No.	1391610000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118191783	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/2 SW	Version
Order No.	1446040000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118251067	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/10 SW	Version
Order No.	1391630000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118191776	
Qty.	10 ST	
Type	ZQV 1.5N/R6.4/19 SW	Version
Order No.	1391600000	TERMSERIES, Cross-connector
GTIN (EAN)	4050118191806	
Qty.	10 ST	

TRP 24VUC 2CO FG

Accessories

Cross-connections

Adjustable cross-connections
Increase the flexibility of your cross-connections. The TERMSERIES CROSS-CONNECTION (TCC) enables individually adjustable cross-connections with up to 51 poles. The maximum number of pluggable poles has been increased to 32 poles. The strip material can be shortened to the required length very easily. The cross-connectors convince thanks to their easy handling and visibility as well as their universal connection possibilities. An additional web prevents the spring from deforming during assembly.
• Individually adjustable cross-connection with 51 poles
• Additional bar to avoid deformation of the spring
• Increased cross-connection – up to 32 poles possible
• Vibration resistance

General ordering data

Type	TCC 6.4/51 RD	Version	
Order No.	2556410000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566925		
Qty.	10 ST		
Type	TCC 6.4/51 OR	Version	
Order No.	2556370000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566680		
Qty.	10 ST		
Type	TCC 6.4/51 BL	Version	
Order No.	2556450000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566963		
Qty.	10 ST		
Type	TCC 6.4/51 BK	Version	
Order No.	2556490000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118567007		
Qty.	10 ST		
Type	TCC 6.4/2 OR	Version	
Order No.	2556350000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566826		
Qty.	10 ST		
Type	TCC 6.4/2 BL	Version	
Order No.	2556430000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566949		
Qty.	10 ST		
Type	TCC 6.4/2 BK	Version	
Order No.	2556470000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566987		
Qty.	10 ST		
Type	TCC 6.4/10 RD	Version	
Order No.	2556400000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566918		
Qty.	10 ST		
Type	TCC 6.4/10 OR	Version	
Order No.	2556360000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566673		
Qty.	10 ST		

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Accessories

Type	TCC 6.4/10 BL	Version	
Order No.	2556440000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566956		
Qty.	10 ST		
Type	TCC 6.4/10 BK	Version	
Order No.	2556480000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566994		
Qty.	10 ST		
Type	TCC 12.8/26 RD	Version	
Order No.	2556420000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566932		
Qty.	10 ST		
Type	TCC 12.8/26 OR	Version	
Order No.	2556380000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566697		
Qty.	10 ST		
Type	TCC 12.8/26 BL	Version	
Order No.	2556460000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566970		
Qty.	10 ST		
Type	TCC 12.8/26 BK	Version	
Order No.	2556500000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118567014		
Qty.	10 ST		
Type	TCC 6.4/2 RD	Version	
Order No.	2556390000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566901		
Qty.	10 ST		

Interface adapters
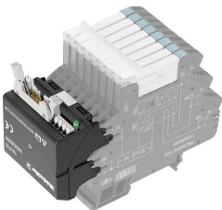
Faster signal wiring with less space
To reduce wiring times, pre-assembled cables are used between the control system and the interface level and are simply connected to the TERMSERIES adapter. This enables throughput times in electrical cabinet building to be significantly reduced. The adapter has a universal fit and offers a genuine space advantage in interaction with the TERMSERIES products with identical contours.

- Reduced wiring time due to plug-and-play concept with pre-assembled cables
- Can be applied to the input and output sides of the TERMSERIES
- Ready for plus and minus switching logic
- High space-saving due to universal fit to other TERMSERIES products

General ordering data

Type	TIAL F10	Version	
Order No.	1463540000	TERMSERIES, Adapter, 10-pole plug according to DIN EN 60603-13,	
GTIN (EAN)	4050118323559	long locking lever, Number of signal paths: 8, Rated voltage DC : 24 V,	
Qty.	1 ST	Rated current (per signal path): 125 mA	

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Accessories

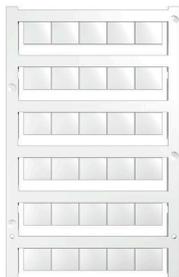| Type	TIAL F20	Version	
Order No.	1463550000	TERMSERIES, Adapter, 20-pole plug according to DIN EN 60603-13,	
GTIN (EAN)	4050118331783	long locking lever, Number of signal paths: 16, Rated voltage DC : 24	
Qty.	1 ST	V, Rated current (per signal path): 60 mA	

Slotted screwdriver

Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

Type	SDS 0.4X2.0X60	Version	
Order No.	2749260000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade	
GTIN (EAN)	4050118895537	thickness (A): 0.4 mm	
Qty.	1 ST		
Type	SDIS 0.4X2.0X60	Version	
Order No.	2749780000	Screwdriver, Blade width (B): 2 mm, Blade length: 60 mm, Blade	
GTIN (EAN)	4050118896527	thickness (A): 0.4 mm	
Qty.	1 ST		

Blank

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• Can be fitted in strips or individually
• Markers in proven MultiCard format
For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	WS 10/12 MC NE WS	Version	
Order No.	1905970000	WS, Terminal marker, 10 x 12 mm, Pitch in mm (P): 12.00	
GTIN (EAN)	4032248528127	Weidmueller, white	
Qty.	300 ST		

Accessories

WS 12/6

WS/ DEK
MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.

Your benefits with MultiMark
• Firm hold and durable printing
• Continuous strips save installation time
• Easy mounting thanks to an innovative composite material
• Large label field for optimal legibility
• High flexibility thanks to manufacturer independence

General ordering data

Type	WS 12/6 MM WS	Version	
Order No.	2007200000	WS, Terminal marker, 12 x 6 mm, Weidmueller, white	
GTIN (EAN)	4050118391886		
Qty.	600 ST		