TRPL 24VDC 2CO

The all-rounder. Compact relay modules, 12.8 mm width with extensive accessories, maximum vibration resistance, and unlimited cross-connection possibilities.

- 2 CO contacts
- Contact material: AgNi
- Integrated status LED for easy function testing
- Unique multi-voltage input from 12 to 60 V UC and 24 to 230 V UC
- Input voltages from 5 V DC to 230 V UC with colored markings: AC: red, DC: blue, UC: white

General ordering data

Version	TERMSERIES-compact, Relay module, Number of contacts: 2, x 1 CO Contact AgNi, Rated control voltage: 24 V DC ±20 %, Continuous current: 6 A, PUSH IN, Test button available: No
Order No.	2773960000
Type	TRPL 24VDC 2CO
GTIN (EAN)	4064675037736
Qty.	10 items

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TRPL 24VDC 2CO

Technical data

Approvals

Approvals			
	CE cULus LISTED UKCA		
UL File Number Search	UL Website		
Certificate no. (cULus)	E141197		

Dimensions and weights

Depth	62.5 mm	Depth (inches)	2.4606 inch
Height	89.4 mm	Height (inches)	3.5197 inch
Width	12.8 mm	Width (inches)	0.5039 inch
Net weight	53.4 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...60 °C
Operating temperature		Humidity	5-85% relative humidity, Tu = 40°C, without condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption		
RoHS Exemption (if applicable/known)	7a, 7cl		
REACH SVHC	Lead 7439-92-1		
SCIP	75e5f661-708e-44b0-9fc2-4f6c675b3b71		

Rated data UL

Connection cross-section AWG, min.	AWG 26	Connection cross-section AWG, max.	AWG 14
Type of conductor	flexible copper conductor, rigid copper conductor	Pollution severity level	2

Control side

Rated control voltage	24 V DC ±20 %	Rated current DC	18 mA
Power rating	430 mW	Coil resistance	3388 Ω ± 10 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode, Reverse polarity protection

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	Inrush current	20 A / 20 ms
AC switching capacity (resistive), max.	1500 VA	DC switching capacity (resistive), max.	144 W @ 24V
Contact type	2 x 1 CO Contact (AgNi)	Mechanical service life	5 x 106 switching cycles
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		

General data

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

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Insulation coordination

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 kVeff / 1 Min.
Type of isolation at input and output	reinforced insulation	Dielectric strength of neighbouring contacts	4 kVeff / 1 min
Type of isolation at neighbouring contacts	reinforced insulation	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		

Further details of approvals / standards

Certificate no. (cULus)	E141197

Connection data

Wire connection method	PUSH IN	Stripping length, rated connection	9 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.	0.5 mm²
Wire cross-section, solid, max.	1.5 mm²	Wire cross-section, solid, min. (AWG)	AWG 26
Wire cross-section, solid, max. (AWG)	AWG 14	Wire connection cross section, finely stranded, min.	0.35 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.	0.14 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.	0.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Blade size	0.6 x 3.5 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		

Data sheet

TRPL 24VDC 2CO

Drawings

Similar to illustration

Wiring diagram
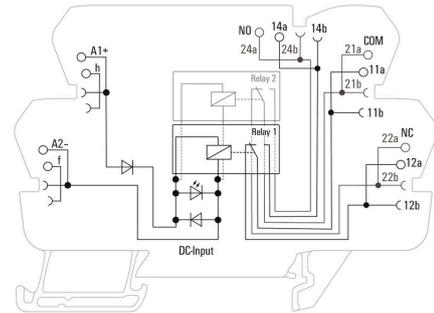
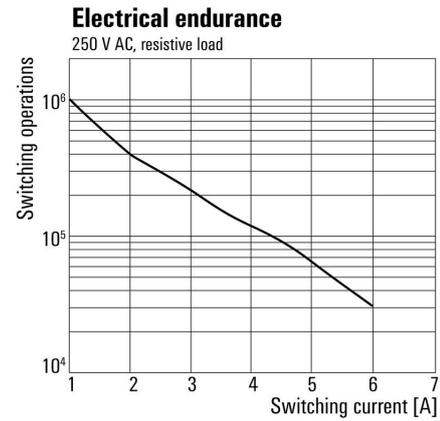*This module contains two Relays
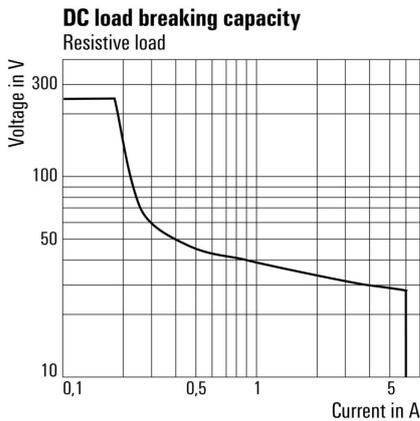
Graph

DC load limit curve Resistive load

Graph

Electrical service life 230 V AC resistive load

Dimensional drawing
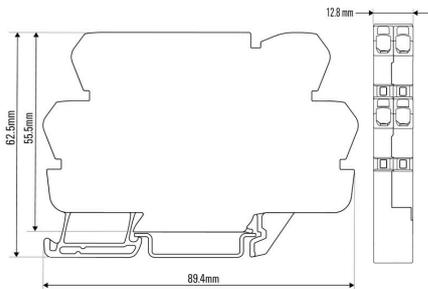
TRPL 24VDC 2CO

Type code electromechanical relay
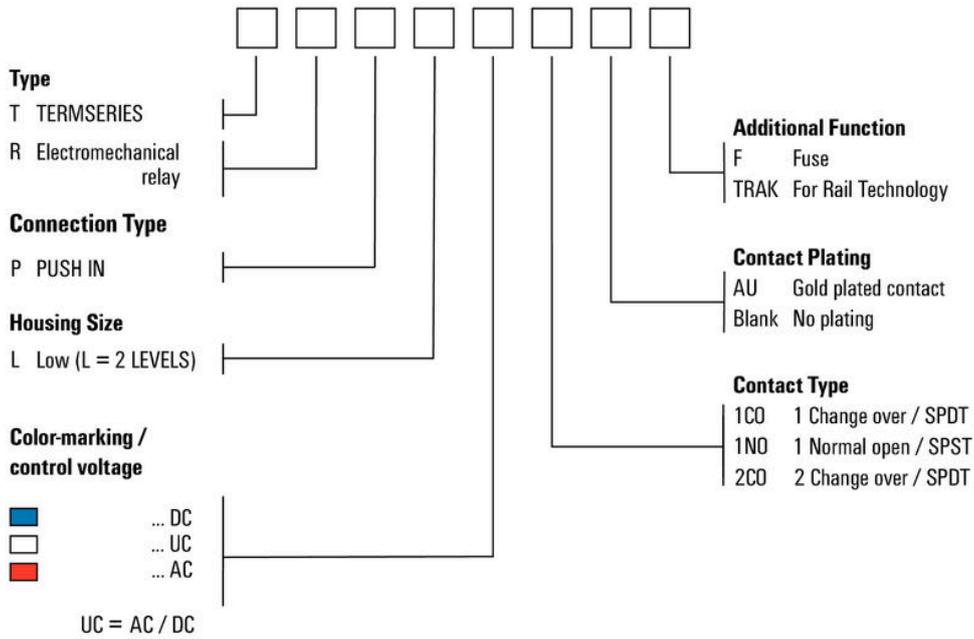
Type
T   TERMSERIES
R   Electromechanical relay

Connection Type
P   PUSH IN

Housing Size
L   Low (L = 2 LEVELS)

Color-marking / control voltage

... DC
... UC
... AC

UC = AC / DC

Additional Function
F   Fuse
TRAK   For Rail Technology

Contact Plating
AU   Gold plated contact
Blank No plating

Contact Type
1CO   1 Change over / SPDT
1NO   1 Normal open / SPST
2CO   2 Change over / SPDT

Type codes

Accessories

Blank
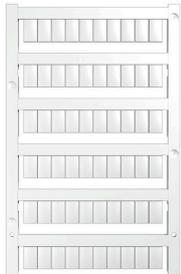
WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, 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		
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		

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	

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Accessories

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		
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		

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Accessories

Type	TCC 6.4/2 RD	Version	
Order No.	2556390000	TERMSERIES, Cross-connector	
GTIN (EAN)	4050118566901		
Qty.	10 ST		

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		

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 0.6X3.5X100	Version	
Order No.	2749810000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade	
GTIN (EAN)	4050118897012	thickness (A): 0.6 mm	
Qty.	1 ST		
Type	SDS 0.6X3.5X100	Version	
Order No.	2749340000	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade	
GTIN (EAN)	4050118895568	thickness (A): 0.6 mm	
Qty.	1 ST		

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Accessories

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	TIA F10	Version
Order No.	1463520000	TERMSERIES, Adapter, 10-pole plug according to DIN EN 60603-13,
GTIN (EAN)	4050118323535	long locking lever, Number of signal paths: 8, Rated voltage DC : 24 V,
Qty.	1 ST	Rated current (per signal path): 125 mA
Type	TIA SUBD 15S	Version
Order No.	1463530000	TERMSERIES, Adapter, Sub-D, 15-pole, DIN 41652 / IEC 60807,
GTIN (EAN)	4050118323542	Number of signal paths: 8, Rated voltage DC : 24 V, Rated current (per
Qty.	1 ST	signal path): 125 mA
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
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

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	

Type	TXL PP	Version
Order No.	2774090000	TERMSERIES-compact, Partition plate
GTIN (EAN)	4064675037866	
Qty.	10 ST	

Feed through module

Precision-fit feed-through terminals
The precisely fitting terminals enable potentials to be brought from the control side to the load side and vice versa. Due to the compatibility with the TERMSERIES, there is a uniform test system with a standardised test tap.

General ordering data

Type	TXPL FT	Version
Order No.	2774080000	TERMSERIES-compact, Feed-through terminal, PUSH IN
GTIN (EAN)	4064675037859	
Qty.	1 ST	

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Accessories

Supply module

Space-saving feed-in terminals
For easy feed-in of neutral or negative potentials at the input of switched potentials at the output. Cross-connections enable space-saving connection of sensors and actuators without additional feed-through terminal blocks.

General ordering data

Type	TXPL S	Version	
Order No.	2774100000	TERMSERIES-compact, Supply module, PUSH IN	
GTIN (EAN)	4064675037873		
Qty.	1 ST		