

TERMSERIES

The All-rounder

Electronics



TERMSERIES – The All-rounder

Relays and solid-state relays for all purposes

Relay modules are universal isolating elements for use in electrical automation. There are always different requirements for them because of this versatility. With the development of our TERMSERIES relay modules and solid-state relays, we have used these practical requirements as our highest benchmark.

Depending on the application, you can choose the product with the fixed-voltage inputs or with the multi-voltage input, which is currently a unique feature in this thin 6 mm terminal block format. Our practical design is reflected in the high-quality design without any sharp edges, a large number of variants with screw and tension-clamp connections, and a clear status display even in difficult viewing conditions. The product shape allows it to be installed in many different positions. Unlimited cross-connectivity, even across partition plates, assures versatile usage for your application regardless of how unusual your needs are.

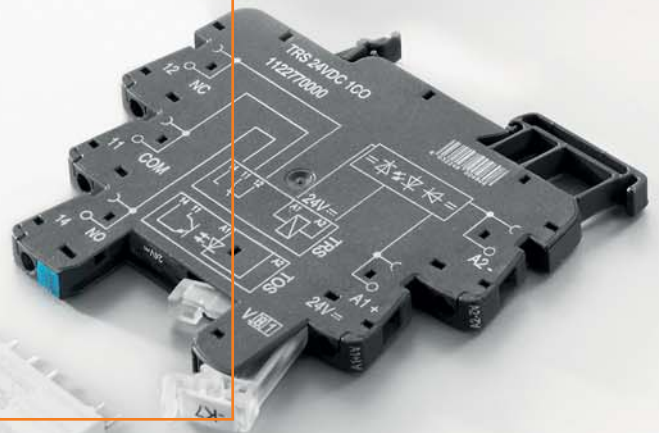
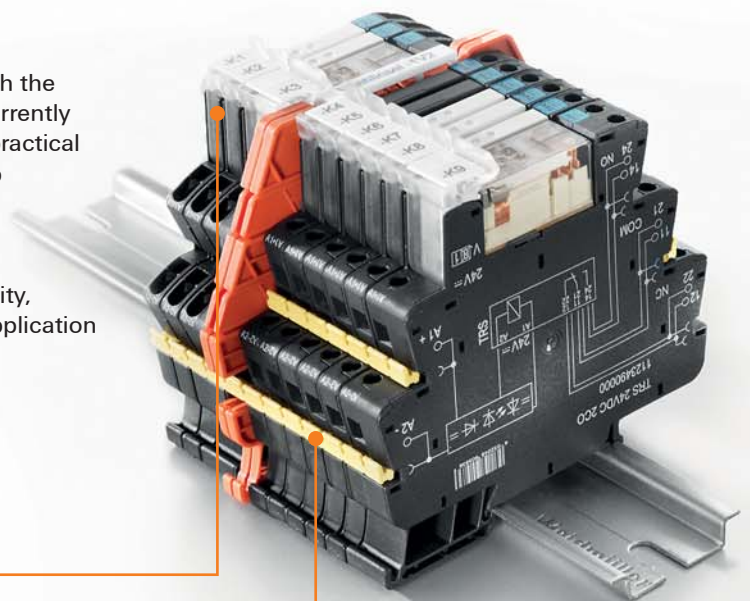
Always the best overview

A distinct status display is available through a LED that completely illuminates the ejector. This ensures the safe removal of the switching element.



Well-designed handling of cross-connections

An exceptionally simple shortening of the cross-connections to the necessary length allows indentations between the poles. An additional bar supports the handling and mounting without having to grasp the contacts.



Clear marking

The unique legibility of all labelling is assured in different mounting positions and this, together with different voltage variant colour identification, reduces the danger of a false connection.



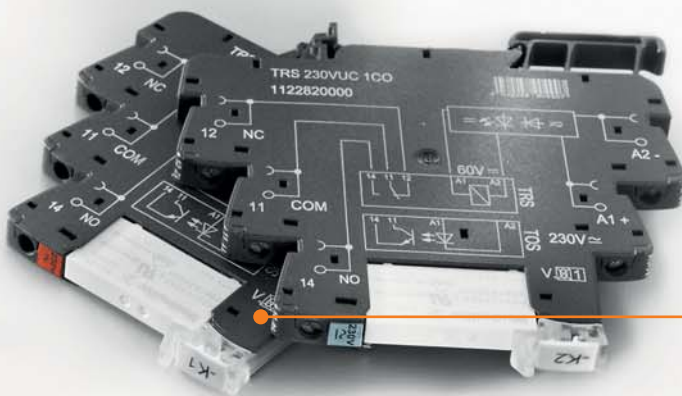
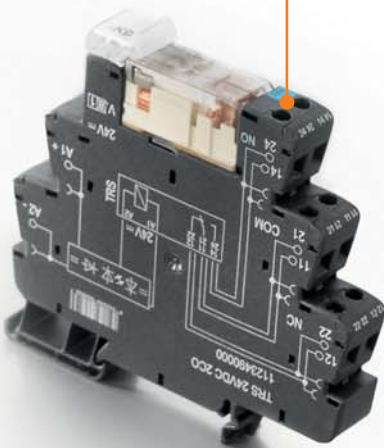
Unique multi-voltage input

Whether retro-fitting machines or in plant construction: with the multi-voltage input from 24 V to 230 V UC, the input signals are always optimally matched to your automation application.



Any desired combinations

The variants with single or dual CO-contacts have the same shape and can be cross-connected with each other.



Custom-fit cross-connection

These cross-connectors are especially impressive because of their ease of use, good visibility and universal interconnectivity – also across partition plates. Even the screw and tension-clamp variants can be cross-connected to each other.



Partition plates for safety and clarity

The partition plate is a unique accessory because of its many different uses. It is used to group signals together visibly, to electrically isolate assemblies, or to add labelling for a better overview.



Further information or samples you can order here:

www.weidmueller.com/TERMSERIES

Application

TERMSERIES in the field

Just in case: Multi-voltage input

You build or renew systems, but do not know the control voltages of the actuators in the field? TERMSERIES with multi-voltage input leaves all doors open. You can ship your cabinet fully tested and safe

time-consuming and costly modifications during commissioning. The TERMSERIES with multi-voltage input gives your machine a universal coupling level - without any surprises.



Non-reactive switch-off

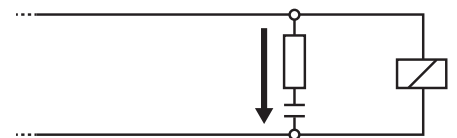
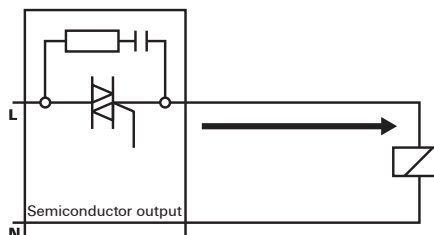
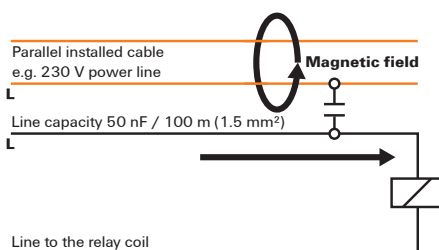
Interference on control lines of relays (e.g. by parallel power lines) produce noise voltage.

When the power of the noise voltage is above of the release voltage of the relay, the relay does not de-energise safe.

In protective circuits of AC output cards leakage currents can occur in the off state.

The relay does not de-energise safe when the leakage current has sufficient power.

Great events often come from little causes:
The variants with 120 / 230 VAC input have a standard built-in RC-filter. This provides a compensation of noise voltage and leakage currents by an additional current consumption.



Inductive or capacitive couplings:
Noise voltage > release voltage
= Relay does not de-energise

Output cards of control systems and control modules:
Leakage current > Relay holding current
= Relay does not de-energise

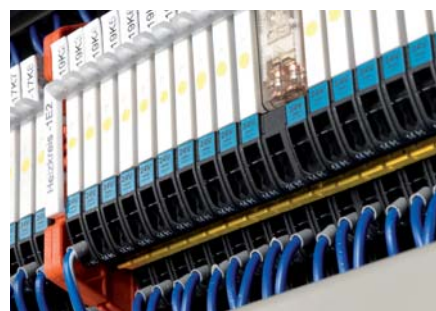
TERMSERIES relays reliably de-energise – Always!

Accessories

Expand your possibilities

Custom-fit cross-connections – ZQV1,5/6,4

- The models with one or two changeover have the same shape and can be cross-connected to each other.
- An additional bar supports the handling and mounting without having to grasp the contacts.
- An exceptionally simple shortening of the cross-connections to the necessary length allows indentations between the poles.
- 10/02/19-pole for the one changeover version
- 10-pole for the two changeover version
- Rated current 17 A



Partition plates for safety and clarity

- Partition plates isolates between two modules by increasing the clearance and creepage distances of up to 400 V.
- Partition plates group signals together visibly
- Two partition plates ensure optimal labeling with markers WAP5 or WS10/5
- Two partition plates allow a continuous cross-connection
- Indentations for individual breaking out the cross-connection channels



Accessories


Cross Connection

Supply Terminal	Supply Terminal	Isolation Plate	6 mm, 2-pole	6 mm, 10-pole	6 mm, 19-pole	12 mm, 10-pole
TXS SUPPLY 1240780000	TXZ SUPPLY 1240790000	TW TXS/TXZ R3.2 1240800000	ZQV 1.5N/R6.4/2 GE 1193670000	ZQV 1.5N/R6.4/10 GE 1193680000	ZQV 1.5N/R6.4/19 GE 1193690000	ZQV 1.5N/R12.8/10 GE 1193700000


Selection chart

Screw connection

Relay – 6 mm

Output	1 Change over 		
	AgNi	AgNi Au	Empty Socket
Input			
5 VDC	TRS 5VDC 1CO 1122740000	TRS 5VDC 1CO AU 1122980000	TRS 5VDC 1CO EMPTY 1123220000
12 VDC	TRS 12VDC 1CO 1122750000	TRS 12VDC 1CO AU 1122990000	TRS 12VDC 1CO EMPTY 1123230000
24 VDC	TRS 24VDC 1CO 1122770000	TRS 24VDC 1CO AU 1123000000	TRS 24VDC 1CO EMPTY 1123240000
24 VUC	TRS 24VUC 1CO 1122780000	TRS 24VUC 1CO AU 1123010000	TRS 24VUC 1CO EMPTY 1123250000
48 VUC	TRS 48VUC 1CO 1122790000	TRS 48VUC 1CO AU 1123020000	TRS 48VUC 1CO EMPTY 1123270000
60 VUC	TRS 60VUC 1CO 1122800000	TRS 60VUC 1CO AU 1123030000	TRS 60VUC 1CO EMPTY 1123280000
120 VUC	TRS 120VUC 1CO 1122810000	TRS 120VUC 1CO AU 1123040000	TRS 120VUC 1CO EMPTY 1123290000
230 VUC	TRS 230VUC 1CO 1122820000	TRS 230VUC 1CO AU 1123050000	TRS 230VUC 1CO EMPTY 1123300000
120 VAC RC	TRS 120VAC RC 1CO 1122830000	TRS 120VAC RC 1CO AU 1123070000	TRS 120VAC RC 1CO EM. 1123310000
230 VAC RC	TRS 230VAC RC 1CO 1122840000	TRS 230VAC RC 1CO AU 1123080000	TRS 230VAC RC 1CO EM. 1123320000
24–230 VUC	TRS 24-230VUC 1CO 1122850000	TRS 24-230VUC 1CO AU 1123090000	TRS 24-230VUC 1CO EM. 1123330000

Relay – 12 mm

Output	2 Change over 		
	AgNi	AgNi Au	Empty Socket
TRS 5VDC 2CO		TRS 5VDC 2CO AU 1123710000	TRS 5VDC 2CO EMPTY 1123950000
TRS 12VDC 2CO		TRS 12VDC 2CO AU 1123720000	TRS 12VDC 2CO EMPTY 1123970000
TRS 24VDC 2CO		TRS 24VDC 2CO AU 1123730000	TRS 24VDC 2CO EMPTY 1123980000
TRS 24VUC 2CO		TRS 24VUC 2CO AU 1123740000	TRS 24VUC 2CO EMPTY 1123990000
TRS 48VUC 2CO		TRS 48VUC 2CO AU 1123750000	TRS 48VUC 2CO EMPTY 1124000000
TRS 60VUC 2CO		TRS 60VUC 2CO AU 1123770000	TRS 60VUC 2CO EMPTY 1124010000
TRS 120VUC 2CO		TRS 120VUC RC 2CO AU 1123780000	TRS 120VUC 2CO EMPTY 1124020000
TRS 230VUC 2CO		TRS 230VUC RC 2CO AU 1123790000	TRS 230VUC 2CO EMPTY 1124030000
TRS 120VAC RC 2CO		TRS 120VAC RC 2CO AU 1123500000	TRS 120VAC RC 2CO EM. 1124040000
TRS 230VAC RC 2CO		TRS 230VAC RC 2CO AU 1123570000	TRS 230VAC RC 2CO EM. 1124050000
TRS 24-230VUC 2CO		TRS 24-230VUC 2CO AU 1123580000	TRS 24-230VUC 2CO EM. 1124070000

Solid-State Relay – 6 mm

Output	5 – 48 VDC	5 – 48 VDC	24 – 230 VAC
	100 mA	2 A	1 A
Input			
5 VDC	TOS 5VDC 48VDC0,1A 1126920000	TOS 5VDC 24VDC2A 1127140000	TOS 5VDC 230VAC1A 1127390000
12 VDC	TOS 12VDC 48VDC0,1A 1126930000	TOS 12VDC 24VDC2A 1127150000	TOS 12VDC 230VAC1A 1127400000
24 VDC	TOS 24VDC 48VDC0,1A 1126940000	TOS 24VDC 24VDC2A 1127170000	TOS 24VDC 230VAC1A 1127410000
24 VUC	TOS 24VUC 48VDC0,1A 1126950000	TOS 24VUC 24VDC2A 1127180000	TOS 24VUC 230VAC1A 1127420000
48 VUC	TOS 48VUC 48VDC0,1A 1126960000	TOS 48VUC 24VDC2A 1127190000	TOS 48VUC 230VAC1A 1127430000
60 VUC	TOS 60VUC 48VDC0,1A 1126970000	TOS 60VUC 24VDC2A 1127200000	TOS 60VUC 230VAC1A 1127440000
120 VUC	TOS 120VUC 48VDC0,1A 1126980000	TOS 120VUC 24VDC2A 1127210000	TOS 120VUC 230VAC1A 1127450000
230 VUC	TOS 230VUC 48VDC0,1A 1126990000	TOS 230VUC 24VDC2A 1127220000	TOS 230VUC 230VAC1A 1127470000
120 VAC RC	TOS 120VAC RC 48VDC0,1A 1127000000	TOS 120VAC RC 24VDC2A 1127230000	TOS 120VAC RC 230VAC1A 1127480000
230 VAC RC	TOS 230VAC RC 48VDC0,1A 1127010000	TOS 230VAC RC 24VDC2A 1127240000	TOS 230VAC RC 230VAC1A 1127490000
24–230 VUC	TOS 24-230VUC 48VDC0,1A 1127020000	TOS 24-230VUC 24VDC2A 1127250000	TOS 24-230VUC 230VAC1A 1127500000


Solid-State Relay – 12 mm

Output	5 – 48 VDC	24 – 230 VAC	
	3,5 A	1 A	Empty Socket
TOS 24VDC 24VDC3,5A		TOS 24VDC 230VAC1A 1127680000	TOS 24VDC EMPTY 1127720000
TOS 24-230VUC 24VDC3,5A		TOS 24-230VUC 230VAC3A 1127690000	TOS 24-230VUC EMPTY 1127730000


Selection chart

Tension clamp connection

Relay – 6 mm

Output	1 Change over 		
	AgNi	AgNi Au	Empty Socket
Input			
5 VDC	TRZ 5VDC 1CO 1122860000	TRZ 5VDC 1CO AU 1123100000	TRZ 5VDC 1CO EMPTY 1123340000
12 VDC	TRZ 12VDC 1CO 1122870000	TRZ 12VDC 1CO AU 1123110000	TRZ 12VDC 1CO EMPTY 1123350000
24 VDC	TRZ 24VDC 1CO 1122880000	TRZ 24VDC 1CO AU 1123120000	TRZ 24VDC 1CO EMPTY 1123370000
24 VUC	TRZ 24VUC 1CO 1122890000	TRZ 24VUC 1CO AU 1123130000	TRZ 24VUC 1CO EMPTY 1123380000
48 VUC	TRZ 48VUC 1CO 1122900000	TRZ 48VUC 1CO AU 1123140000	TRZ 48VUC 1CO EMPTY 1123390000
60 VUC	TRZ 60VUC 1CO 1122910000	TRZ 60VUC 1CO AU 1123150000	TRZ 60VUC 1CO EMPTY 1123400000
120 VUC	TRZ 120VUC 1CO 1122920000	TRZ 120VUC 1CO AU 1123190000	TRZ 120VUC 1CO EMPTY 1123410000
230 VUC	TRZ 230VUC 1CO 1122930000	TRZ 230VUC 1CO AU 1123180000	TRZ 230VUC 1CO EMPTY 1123420000
120 VAC RC	TRZ 120VAC RC 1CO 1122940000	TRZ 120VAC RC 1CO AU 1123190000	TRZ 120VAC RC 1CO EM. 1123430000
230 VAC RC	TRZ 230VAC RC 1CO 1122950000	TRZ 230VAC RC 1CO AU 1123200000	TRZ 230VAC RC 1CO EM. 1123440000
24–230 VUC	TRZ 24-230VUC 1CO 1122970000	TRZ 24-230VUC 1CO AU 1123210000	TRZ 24-230VUC 1CO EM. 1123450000

Relay – 12 mm

Output	2 Change over 		
	AgNi	AgNi Au	Empty Socket
Input			
5 VDC	TRZ 5VDC 2CO 1123590000	TRZ 5VDC 2CO AU 1123830000	TRZ 5VDC 2CO EMPTY 1124080000
12 VDC	TRZ 12VDC 2CO 1123600000	TRZ 12VDC 2CO AU 1123840000	TRZ 12VDC 2CO EMPTY 1124090000
24 VDC	TRZ 24VDC 2CO 1123610000	TRZ 24VDC 2CO AU 1123850000	TRZ 24VDC 2CO EMPTY 1124100000
24 VUC	TRZ 24VUC 2CO 1123620000	TRZ 24VUC 2CO AU 1123870000	TRZ 24VUC 2CO EMPTY 1124110000
48 VUC	TRZ 48VUC 2CO 1123630000	TRZ 48VUC 2CO AU 1123880000	TRZ 48VUC 2CO EMPTY 1124120000
60 VUC	TRZ 60VUC 2CO 1123640000	TRZ 60VUC 2CO AU 1123890000	TRZ 60VUC 2CO EMPTY 1124130000
120 VUC	TRZ 120VUC 2CO 1123650000	TRZ 120VUC 2CO AU 1123900000	TRZ 120VUC 2CO EMPTY 1124140000
230 VUC	TRZ 230VUC 2CO 1123670000	TRZ 230VUC 2CO AU 1123910000	TRZ 230VUC 2CO EMPTY 1124150000
120 VAC RC	TRZ 120VAC RC 2CO 1123680000	TRZ 120VAC RC 2CO AU 1123920000	TRZ 120VAC RC 2CO EM. 1124170000
230 VAC RC	TRZ 230VAC RC 2CO 1123690000	TRZ 230VAC RC 2CO AU 1123930000	TRZ 230VAC RC 2CO EM. 1124180000
24–230 VUC	TRZ 24-230VUC 2CO 1123700000	TRZ 24-230VUC 2CO AU 1123940000	TRZ 24-230VUC 2CO EM. 1124190000

Solid-State Relay – 6 mm

Output	5 - 48 VDC 100 mA	5 - 48 VDC 2 A	24 - 230 VAC 1 A
Input			
5 VDC	TOZ 5VDC 48VDC0,1A 1127030000	TOZ 5VDC 24VDC2A 1127270000	TOZ 5VDC 230VAC1A 1127510000
12 VDC	TOZ 12VDC 48VDC0,1A 1127040000	TOZ 12VDC 24VDC2A 1127280000	TOZ 12VDC 230VAC1A 1127520000
24 VDC	TOZ 24VDC 48VDC0,1A 1127050000	TOZ 24VDC 24VDC2A 1127290000	TOZ 24VDC 230VAC1A 1127530000
24 VUC	TOZ 24VUC 48VDC0,1A 1127060000	TOZ 24VUC 24VDC2A 1127300000	TOZ 24VUC 230VAC1A 1127540000
48 VUC	TOZ 48VUC 48VDC0,1A 1127070000	TOZ 48VUC 24VDC2A 1127310000	TOZ 48VUC 230VAC1A 1127550000
60 VUC	TOZ 60VUC 48VDC0,1A 1127080000	TOZ 60VUC 24VDC2A 1127320000	TOZ 60VUC 230VAC1A 1127570000
120 VUC	TOZ 120VUC 48VDC0,1A 1127090000	TOZ 120VUC 24VDC2A 1127330000	TOZ 120VUC 230VAC1A 1127580000
230 VUC	TOZ 230VUC 48VDC0,1A 1127100000	TOZ 230VUC 24VDC2A 1127340000	TOZ 230VUC 230VAC1A 1127590000
120 VAC RC	TOZ 120VAC RC 48VDC0,1A 1127110000	TOZ 120VAC RC 24VDC2A 1127350000	TOZ 120VAC RC 230VAC1A 1127600000
230 VAC RC	TOZ 230VAC RC 48VDC0,1A 1127120000	TOZ 230VAC RC 24VDC2A 1127370000	TOZ 230VAC RC 230VAC1A 1127610000
24–230 VUC	TOZ 24-230VUC 48VDC0,1A 1127130000	TOZ 24-230VUC 24VDC2A 1127380000	TOZ 24-230VUC 230VAC1A 1127620000

Solid-State Relay – 12 mm

Output	5 - 48 VDC 3,5 A	24 - 230 VAC 1 A	Empty Socket
Input			
TOZ 24VDC 24VDC3,5A 1127650000	TOZ 24VDC 230VAC1A 1127700000	TOZ 24VDC EMPTY 1127740000	
TOZ 24-230VUC 24VDC3,5A 1127670000	TOZ 24-230VUC 230VAC1A 1127710000	TOZ 24-230VUC EMPTY 1127750000	

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