

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.

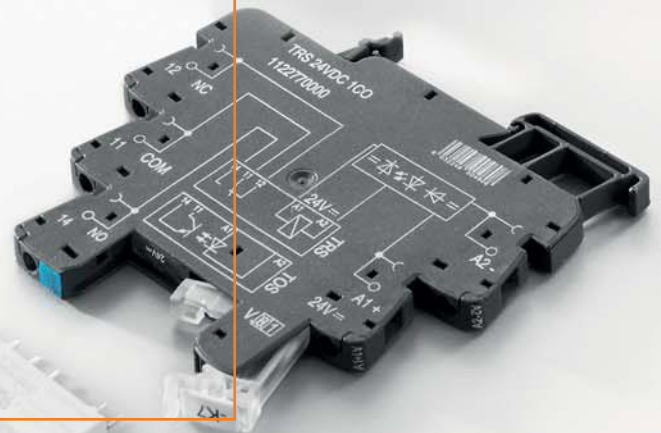
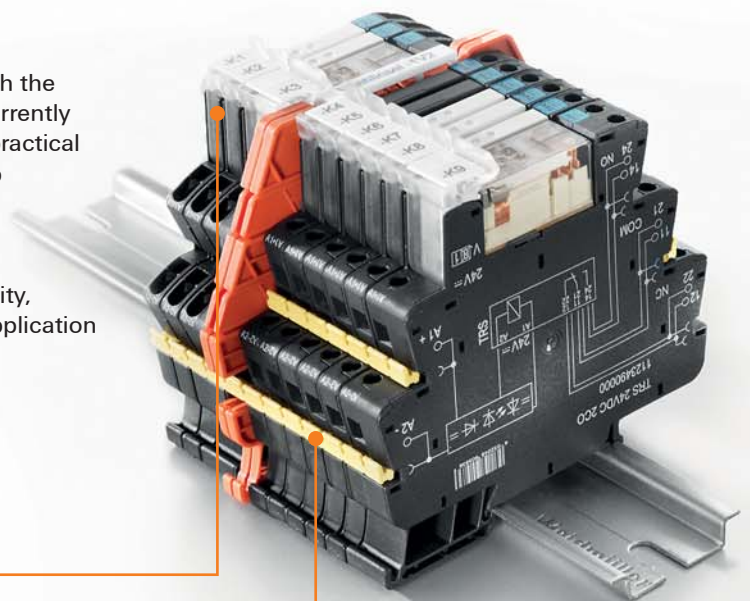
Always the best overview

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.



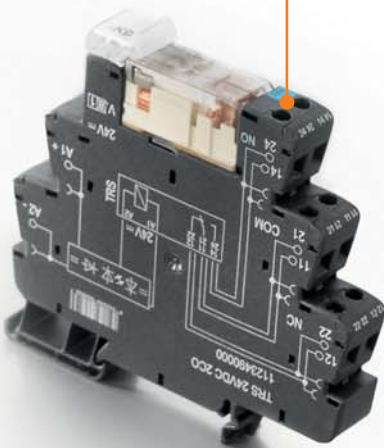
Unique multi-voltage input

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

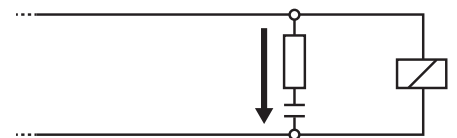
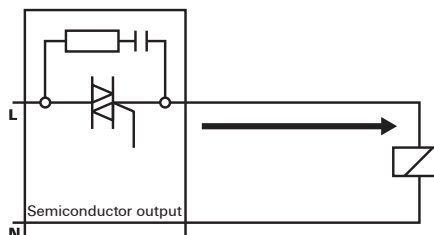
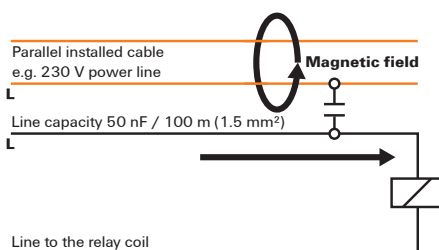
Interference on control lines of relays (e.g. by parallel power lines) produce noise voltage.

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

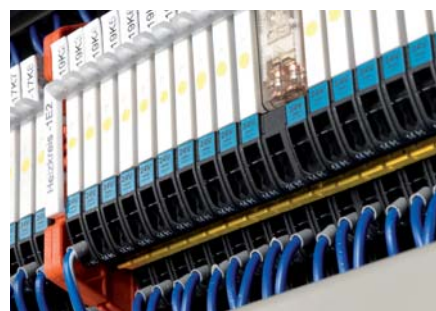
TERMSERIES relays reliably de-energise – Always!

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 1123470000 | TRS 5VDC 2CO EMPTY 1123950000 | |
| TRS 12VDC 2CO | TRS 12VDC 2CO AU 1123480000 | TRS 12VDC 2CO EMPTY 1123970000 | |
| TRS 24VDC 2CO | TRS 24VDC 2CO AU 1123490000 | TRS 24VDC 2CO EMPTY 1123980000 | |
| TRS 24VUC 2CO | TRS 24VUC 2CO AU 1123500000 | TRS 24VUC 2CO EMPTY 1123990000 | |
| TRS 48VUC 2CO | TRS 48VUC 2CO AU 1123510000 | TRS 48VUC 2CO EMPTY 1124000000 | |
| TRS 60VUC 2CO | TRS 60VUC 2CO AU 1123520000 | TRS 60VUC 2CO EMPTY 1124010000 | |
| TRS 120VUC 2CO | TRS 120VUC RC 2CO AU 1123530000 | TRS 120VUC 2CO EMPTY 1124020000 | |
| TRS 230VUC 2CO | TRS 230VUC RC 2CO AU 1123540000 | TRS 230VUC 2CO EMPTY 1124030000 | |
| TRS 120VAC RC 2CO | TRS 120VAC RC 2CO AU 1123550000 | 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 | Empty Socket |
|-------------------------|---|--|--------------|
| | 3,5 A | 1 A | |
| TOS 24VDC 24VDC3,5A | TOS 24VDC 230VAC1A 1127630000 | TOS 24VDC EMPTY 1127720000 | |
| TOS 24-230VUC 24VDC3,5A | TOS 24-230VUC 230VAC3A 1127640000 | 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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Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
32758 Detmold, Germany
Phone +49 5231 1429-0
Fax +49 5231 1429-2083
info@weidmueller.com
www.weidmueller.com



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