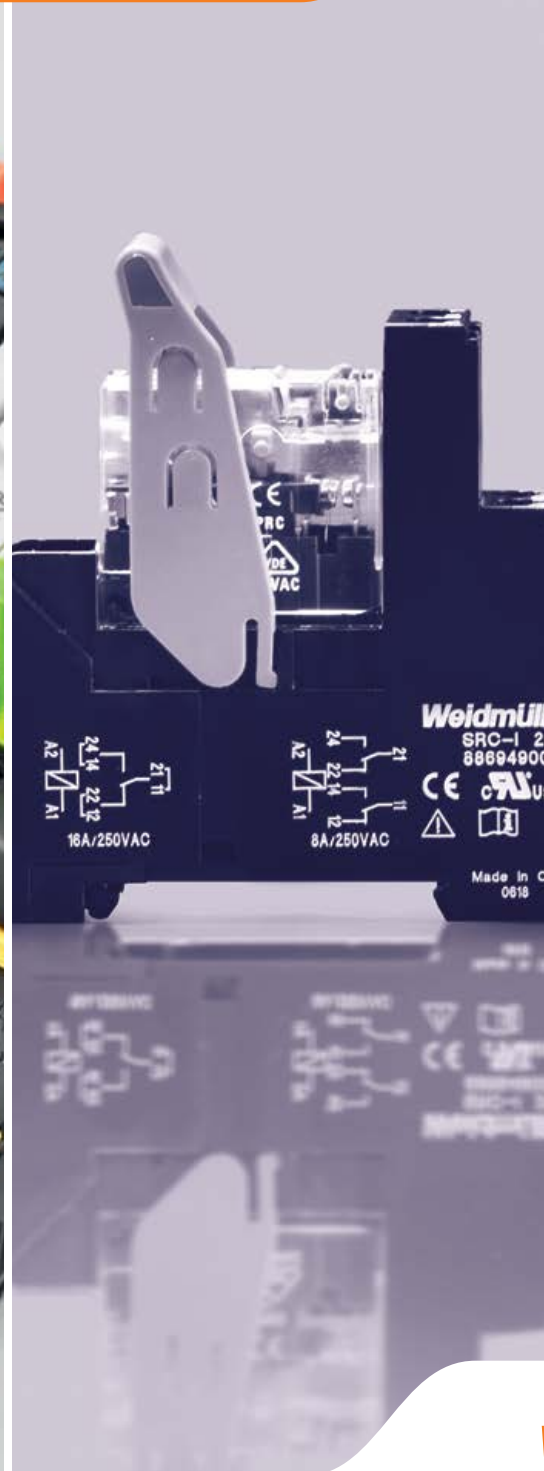


# Relay Couplers

## Product Selection Guide



# Relay Couplers in Weidmuller's World

**Switching, amplifying and multiplying. Weidmuller's relay couplers give their all!**

## **Module for module: first class quality!**

Weidmuller's relay couplers enable interference-free and non-interacting signal transmissions in industrial automation applications. Quickly mounted, they are compact and can be integrated in the tightest of spaces. Weidmuller's relay couplers guarantee:

- easy mounting: simply snap onto the mounting rail
- reliable separation of input and output circuits when specified insulation voltage is adhered to
- simultaneous switching of several loads
- error-free switching of varying loads
- reliable coupling of different voltages and currents between the input and output circuits
- improved performance

## **For each and every problem: a solution!**

This extensive spectrum of features means that Weidmuller's relay couplers are mainly suitable for separating and conditioning of potentials as well as for multiplying signals in automation engineering. The main emphasis is placed on subassemblies that couple signals potential-free between the field and the control levels. Based on a wide platform of housings, Weidmuller has the optimum module for every application. Relay coupler modules from Weidmuller are firmly established in automation engineering:

- slim measuring and monitoring relays
- compact power relays
- proven industrial relays
- Class 1, Division 2 approved relays

## **RSS**

**Slim measuring and monitoring relays: the space savers!**



Due to their design, **Weidmuller's RSS measuring and monitoring relays** require very little space and are ideal for galvanic separation and conditioning of signals. Thanks to the clearance and creepage distances attained, these "space savers" can also be utilized for sub-assemblies with safe isolation. The contact material and design enable small to medium-sized loads up to 6 A @ 24 VDC or 230 VAC to be switched.

## **RCL**

**Compact power relays: the all-rounders!**



**Weidmuller's RCL power relays** are always suitable for universal and optimum utilization when safe isolation between the input and output is essential. Together with their robust mechanical features, their excellent contact characteristics enable loads up to 16 A @ 24 VDC or 230 VAC to be switched. The two changeover versions are suitable to duplicate signals. The all-rounder's special design helps prevent contact burn due to inductive loads, and gold contacts ensure that even small loads such as measurement signals can be reliably switched.

## **RCI**

**The tough ones for industry!**



The **Weidmuller RCI power relays** were designed for use in industrial applications. Besides their outstanding contact characteristics (these relays can switch power supplies up to 16 A @ 24 VDC or 230 VAC), the robust pins of these relays are ideal for use on plug-in bases. The optional integral upstream protective circuit and test button emphasize the industrial nature of these relays. Two changeover versions can be used for duplicating signals.

## **RCM**

**Proven industrial relays: the multi-talented relays!**



**Weidmuller's industrial relays, RCM**, offer an extensive range of options: there are as many as four changeover contacts available to multiply signals. In addition, the contacts can be mechanically operated by means of a lockable test button to simulate switching statuses during commissioning. To enable monitoring of the contact float, these "multi-talented" relays are equipped with a mechanical status indicator – an integrated LED unit to indicate the switching status is optionally available.

# Weidmuller: the specialist in connection technology!



Suitable for mounting onto mounting rails, Weidmuller's relay sockets offer the respective optimum connection technique for mechanical and systems engineering – finely tuned for performance and to suit the expected application.

## TERMSERIES



Weidmuller's TERMSERIES has integrated the product features of the RSS measuring and monitoring relays into the world of terminal blocks. One or two changeover contacts housed in a slim 6.4 mm or 12.8 mm design with matching profiles across the entire product family can be combined as required in the customer's application and reliably switch loads of up to 8A at 250V. The customer has the freedom to choose between products with a fixed voltage input or Weidmuller's unique multi-voltage input which allows conditioning signals from 24V up to 230V AC/DC with just one module. The versions with single and dual changeover contacts as well as screw clamp and tension clamp terminals have the same profile and can be jumpered with each other with ease to use cross connections.

## RIDERSERIES



The RIDERSERIES series represents the inspired integration of the **Weidmuller RCI power relay**; relays with integrated electronics, optional protective circuits and relay retaining clip are of modular design and pluggable. In respect of form, the series conforms to the international standard. Of compact design, it wins over through proven connection technology, optionally available with the screw or push-in systems.



The RIDERSERIES range is also available in combination with **Weidmuller's industrial relay RCM** – it then offers characteristics comparable with Weidmuller's power relay RCL: these couplers are equally modular in design, and, as well as the optionally available screw or tension clamp connections, fulfil the required standard.



## RCI-Kit 1 changeover contact



- 1 changeover contact 250 VAC / 16 A
- 15 mm in width
- industrial relays for separating potentials and switching medium-sized loads

## RCI-Kit 2 changeover contacts



- 2 changeover contacts 250 VAC / 8 A
- 15 mm in width
- industrial relays for separating potentials and switching medium-sized loads

Type with test button	Part No.
RCIKIT 24 VDC 1CO LD/PB	<b>8881580000</b>
RCIKITP 24 VDC 1CO LD/PB	<b>8897190000</b>
RCIKIT 24 VAC 1CO LD/PB	<b>8881590000</b>
RCIKITP 24 VAC 1CO LD/PB	<b>8897200000</b>

Type without test button	Part No.
RCIKIT 24 VDC 1CO LED	<b>8871000000</b>
RCIKITP 24 VDC 1CO LD	<b>8897110000</b>
RCIKIT 24 VAC 1CO LED	<b>8871010000</b>
RCIKITP 24 VAC 1CO LD	<b>8897120000</b>

RCIKIT 115 VAC 1CO LD/PB	<b>8897060000</b>
RCIKITP 115 VAC 1CO LD/PB	<b>8897210000</b>

RCIKIT 115 VAC 1CO LD	<b>8897090000</b>
RCIKITP 115 VAC 1CO LD	<b>8897130000</b>

RCIKIT 230 VAC 1CO LD/PB	<b>8881600000</b>
RCIKITP 230 VAC 1CO LD/PB	<b>8897220000</b>

RCIKIT 230 VAC 1CO LED	<b>8871020000</b>
RCIKITP 230 VAC 1CO LD	<b>8897140000</b>

RCIKIT = screw connection  
RCIKITP = Push In connection

RCIKIT = screw connection  
RCIKITP = Push In connection

Type	Part No.
RCI374AC4	<b>8870250000</b>
RCI374R24	<b>8870280000</b>
RCI374S15	<b>8870290000</b>
RCI374T30	<b>8870300000</b>
SRC-I 2CO	<b>8869490000</b>
SRC-I 2CO P (Push In)	<b>8869500000</b>

Type	Part No.
RCI314AC4	<b>8870100000</b>
RCI314R24	<b>8870130000</b>
RCI314S15	<b>8870140000</b>
RCI314T30	<b>8870150000</b>
SRC-I 2CO	<b>8869490000</b>
SRC-I 2CO P (Push In)	<b>8869500000</b>

SRC-I CLIP HP	<b>8869510000</b>
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SRC-I CLIP HP	<b>8869510000</b>
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SRC-I CLIP HM RCI	<b>1132090000</b>
RIM-H 2 6/24 VDC GN	<b>8869600000</b>
RIM-H 3 6/24 VUC RD	<b>8869630000</b>
RIM-H 3 110/230 VUC RD	<b>8869650000</b>

SRC-I CLIP HM RCI	<b>1132090000</b>
RIM-H 2 6/24 VDC GN	<b>8869600000</b>
RIM-H 3 6/24 VUC RD	<b>8869630000</b>
RIM-H 3 110/230 VUC RD	<b>8869650000</b>

Type	Part No.
SRC-I QV for push-in base, 2-pole	<b>8870840000</b>
SRC-I QVS for screw base, 8-pole	<b>1132070000</b>

Type	Part No.
SRC-I QV for push-in base, 2-pole	<b>8870840000</b>
SRC-I QVS for screw base, 8-pole	<b>1132070000</b>

Note: RIDERSERIES relays and sockets carry the cURus and CSA approval.

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Type with test button	Part No.
RCIKIT 24 VDC 2CO LD/PB	<b>8881610000</b>
RCIKITP 24 VDC 2CO LD/PB	<b>8897230000</b>
RCIKIT 24 VAC 2CO LD/PB	<b>8881620000</b>
RCIKITP 24 VAC 2CO LD/PB	<b>8897240000</b>

Type without test button	Part No.
RCIKIT 24 VDC 2CO LED	<b>8871030000</b>
RCIKITP 24 VDC 2CO LD	<b>8897150000</b>
RCIKIT 24 VAC 2CO LED	<b>8871040000</b>
RCIKITP 24 VAC 2CO LD	<b>8897160000</b>

RCIKIT 115 VAC 2CO LD/PB	<b>8897080000</b>
RCIKITP 115 VAC 2CO LD/PB	<b>8897250000</b>

RCIKIT 115 VAC 2CO LD	<b>8897100000</b>
RCIKITP 115 VAC 2CO LD	<b>8897170000</b>

RCIKIT 230 VAC 2CO LD/PB	<b>8881630000</b>
RCIKITP 230 VAC 2CO LD/PB	<b>8897260000</b>

RCIKIT 230 VAC 2CO LED	<b>8871050000</b>
RCIKITP 230 VAC 2CO LD	<b>8897180000</b>

RCIKIT = screw connection  
RCIKITP = Push In connection

RCIKIT = screw connection  
RCIKITP = Push In connection

Type	Part No.
RCI484AC4	<b>8870320000</b>
RCI484R24	<b>8870350000</b>
RCI484S15	<b>8870360000</b>
RCI484T30	<b>8870370000</b>
SRC-I 2CO	<b>8869490000</b>
SRC-I 2CO P (Push In)	<b>8869500000</b>

Type	Part No.
RCI424AC4	<b>8870180000</b>
RCI424R24	<b>8870210000</b>
RCI424S15	<b>8870220000</b>
RCI424T30	<b>8870230000</b>
SRC-I 2CO	<b>8869490000</b>
SRC-I 2CO P (Push In)	<b>8869500000</b>

SRC-I CLIP HP	<b>8869510000</b>
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SRC-I CLIP HP	<b>8869510000</b>
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SRC-I CLIP HM RCI	<b>1132090000</b>
RIM-H 2 6/24 VDC GN	<b>8869600000</b>
RIM-H 3 6/24 VUC RD	<b>8869630000</b>
RIM-H 3 110/230 VUC RD	<b>8869650000</b>

SRC-I CLIP HM RCI	<b>1132090000</b>
RIM-H 2 6/24 VDC GN	<b>8869600000</b>
RIM-H 3 6/24 VUC RD	<b>8869630000</b>
RIM-H 3 110/230 VUC RD	<b>8869650000</b>

Type	Part No.
SRC-I QV for push-in base, 2-pole	<b>8870840000</b>
SRC-I QVS for screw base, 8-pole	<b>1132070000</b>

Type	Part No.
SRC-I QV for push-in base, 2-pole	<b>8870840000</b>
SRC-I QVS for screw base, 8-pole	<b>1132070000</b>

Note: RIDERSERIES relays and sockets carry the cURus and CSA approval.

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## RCM 2 changeover contacts



- 2 changeover contacts 250 VAC / 12 A
- 27 mm in width
- industrial relays for separating potentials, multiplying signals and switching medium-sized loads

Type	Part No.
RCMKIT-I 24 VDC 2CO LD	<b>8920940000</b>
RCMKITP-I 24 VDC 2CO LD	<b>8921080000</b>
RCMKIT-I 24 VAC 2CO LD	<b>8920950000</b>
RCMKITP-I 24 VAC 2CO LD	<b>8921090000</b>

RCMKIT-I 115 VAC 2CO LD	<b>8920960000</b>
RCMKITP-I 115 VAC 2CO LD	<b>8921100000</b>

RCMKIT-I 230 VAC 2CO LD	<b>8920970000</b>
RCMKITP-I 230 VAC 2CO LD	<b>8921110000</b>

RCMKIT-I = screw connection  
RCMKITP-I = Push In connection

Type	Part No.
RCM270024	<b>8689860000</b>
RCM270524	<b>8689760000</b>
RCM270615	<b>8689800000</b>
RCM270730	<b>8689820000</b>
SCM-I 2CO	<b>8869400000</b>
SCM-I 2CO P (Push In)	<b>8876220000</b>
SCM-I CLIP P	<b>8869440000</b>
SCM-I CLIP M	<b>8869450000</b>
RIM-I 2 6/24 VDC GN	<b>8869600000</b>
RIM-I 3 6/24 VUC RD	<b>8869630000</b>
RIM-I 3 110/230 VUC RD	<b>8869650000</b>

Type	Part No.
SCM-I QV for push-in base, 2-pole	<b>8870850000</b>
SCM-I QVS for screw base, 6-pole	<b>1132080000</b>

We recommend the use of differently colored LEDs to differentiate between AC and DC relays. green = DC module / red = AC module  
Note: RIDERSERIES relays and sockets carry the cURus and CSA approval.

## RCM 3 changeover contacts



- 3 changeover contacts 250 VAC / 10 A
- 27 mm in width
- industrial relays for separating potentials, multiplying signals and switching medium-sized loads

Type	Part No.
RCMKIT-I 24 VDC 3CO LD	<b>8920980000</b>
RCMKITP-I 24 VDC 3CO LD	<b>8921090000</b>
RCMKIT-I 24 VAC 3CO LD	<b>8920990000</b>

RCMKIT-I 115 VAC 3CO LD	<b>8921010000</b>
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RCMKIT-I 230 VAC 3CO LD	<b>8921020000</b>
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RCMKIT-I = screw connection

Type	Part No.
RCM370024	<b>8690040000</b>
RCM370524	<b>8690030000</b>
RCM370615	<b>8689980000</b>
RCM370730	<b>8690000000</b>
SCM-I 3CO N	<b>8869410000</b>
SCM-I CLIP N	<b>8875620000</b>
SCM-I CLIP M	<b>8869450000</b>
RIM-I 2 6/24 VDC GN	<b>8869600000</b>
RIM-I 3 6/24 VUC RD	<b>8869630000</b>
RIM-I 3 110/230 VUC RD	<b>8869650000</b>

Type	Part No.
SCM-I QV for push-in base, 2-pole	<b>8870850000</b>
SCM-I QVS for screw base, 6-pole	<b>1132080000</b>

We recommend the use of differently colored LEDs to differentiate between AC and DC relays. green = DC module / red = AC module  
Note: RIDERSERIES relays and sockets carry the cURus and CSA approval.

## RCM 4 changeover contacts



- 4 changeover contacts 250 VAC / 6 A
- 27 mm in width
- industrial relays for separating potentials, multiplying signals and switching medium-sized loads

Type	Part No.
RCMKIT-I 24 VDC 4CO LD	<b>8921030000</b>
RCMKITP-I 24 VDC 4CO LD	<b>8921120000</b>
RCMKIT-I 24 VAC 4CO LD	<b>8921040000</b>
RCMKITP-I 24 VAC 4CO LD	<b>8921130000</b>

RCMKIT-I 115 VAC 4CO LD	<b>8921050000</b>
RCMKITP-I 115 VAC 4CO LD	<b>8921140000</b>

RCMKIT-I 230 VAC 4CO LD	<b>8921060000</b>
RCMKITP-I 230 VAC 4CO LD	<b>8921150000</b>

RCMKIT-I = screw connection  
RCMKITP-I = Push In connection

Type	Part No.
RCM570024	<b>8690200000</b>
RCM570524	<b>8690110000</b>
RCM570615	<b>1180800000</b>
RCM570730	<b>1181100000</b>
SCM-I 4CO	<b>8869420000</b>
SCM-I 4CO P (Push In)	<b>8869430000</b>
SCM-I CLIP P	<b>8869440000</b>
SCM-I CLIP M	<b>8869450000</b>
RIM-I 2 6/24 VDC GN	<b>8869600000</b>
RIM-I 3 6/24 VUC RD	<b>8869630000</b>
RIM-I 3 110/230 VUC RD	<b>8869650000</b>

Type	Part No.
SCM-I QV for push-in base, 2-pole	<b>8870840000</b>
SCM-I QVS for screw base, 6-pole	<b>1132080000</b>

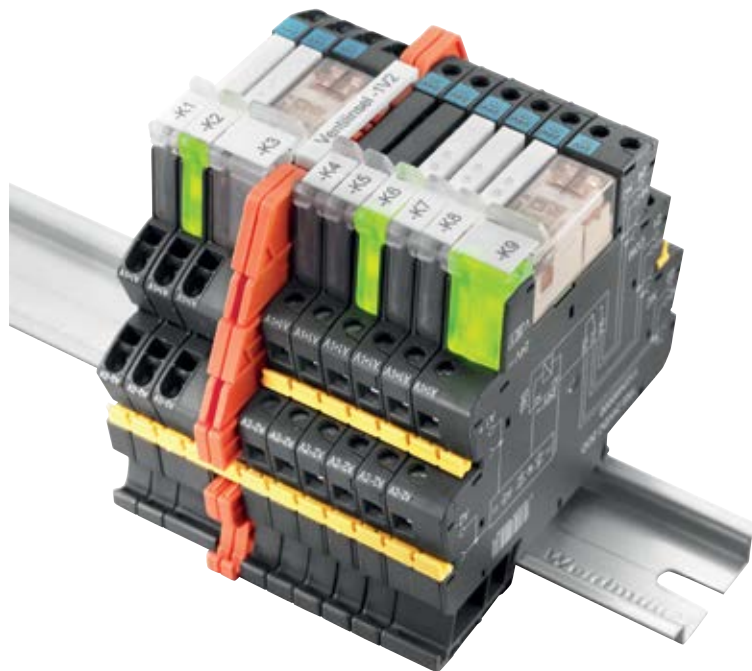
We recommend the use of differently colored LEDs to differentiate between AC and DC relays. green = DC module / red = AC module  
Note: RIDERSERIES relays and sockets carry the cURus and CSA approval.

# TERMSERIES – The All-rounder

## Relays and solid-state relays for all purposes

Profit from the unbeatable advantages offered by the New TERMSERIES relays:

- **Space Saving:** 6.4 mm wide for 1 changeover and 12.8 mm wide for 2 changeover contacts
- **Unique Multi-Voltage Input:** Pluggable 24 V – 230 V AC/DC relay modules reduce spare inventory while increasing machine up time
- **High-visibility Status Indication:** A completely illuminated ejector ensures clearly visible status indication
- **2 CO Output Option:** Two changeover contacts double the function and enable simpler multi-function operation
- **Easy-to-Use Jumpers:** Reduce wiring time and costs for screw and tension clamp modules and even a mix of 1CO and 2CO
- **Smart Accessories:** Provide clear separation with isolation plates for grouping signals into function or voltages, and to isolate two modules up to 400V



### Always the best overview

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



### Unique multi-voltage input

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



### Well designed cross-connections

The new jumpers are well designed with their ease of use, good visibility and universal interconnectivity. They allow to jumper on 5 levels any combination of 1CO and 2CO versions, screw and tension clamp versions, even across isolation plates. They can be easily cut to length with pre-marked indentations between the poles and the addition of a tab improves handling, eliminating the need to grasp the contacts.



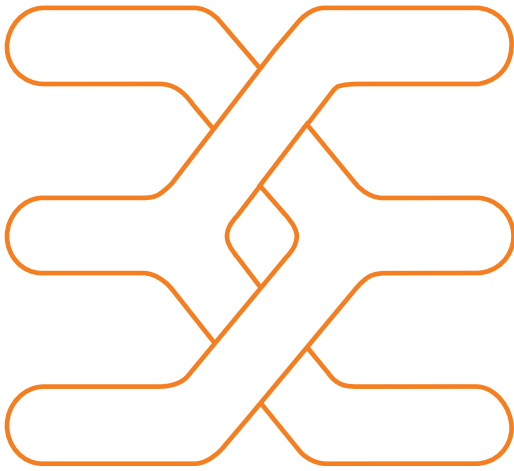
### Smart Accessories

The isolation plate is a unique accessory because of its many different uses. It is used to visibly group signals together, to electrically isolate two modules up to 400V, or to add labeling for a better overview.



### Clear marking

The unique legibility of all labeling is assured in different mounting positions and this, together with different voltage variant color identification, reduces the danger of false connections.



Weidmuller is the leading manufacturer of components for electrical connection technology to transmit energy, signals and data. The Weidmuller product portfolio ranges from terminal blocks, PCB connectors and terminals, protected components, Industrial Ethernet components, I/O components and relay sockets to power supplies and overvoltage protection modules suitable for all applications. Assemble Services, marking solutions with a variety of tools and software systems, round off the range. As an OEM supplier, the company sets global standards in the field of electrical connection technology.

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**Weidmüller** 