



# 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

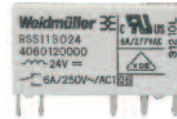
## For each and every problem: a solution!

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 6A @ 24 VDC or 230 VAC to be switched.

## RCI

**The tough ones for industry!**



The new **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.

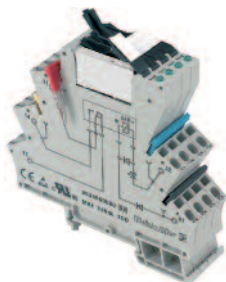
### Weidmuller: the specialist in connection technology!

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.



### MICROSERIES

---



The MICROSERIES range has integrated the product features of **Weidmuller's RSS measuring and monitoring** relays into the world of terminal blocks. At the same time, the user is able to rely on the specific characteristics of the terminal blocks: he neither has to do without the freedom to choose the connection technique, pluggable cross-connections, universal marking solutions or the space-saving features that are typical of relays!

### RIDERSERIES

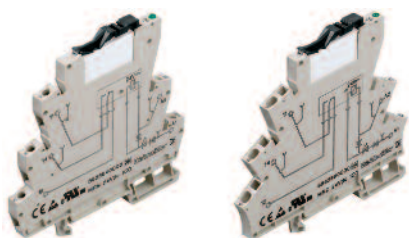
---



The RIDERSERIES series represents the inspired integration of the new **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.

### MICROSERIES Class 1, Div. 2 Approved

---

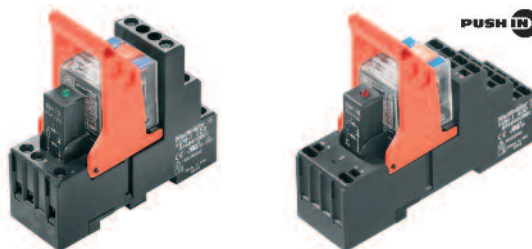


Class 1  
Div. 2  
APPROVED

The MICROSERIES now features five distinct relay options with Class 1, Division 2 approval. The user can now benefit from the slim profile of the MICROSERIES, pluggable cross-connections and the universal marking solution in hazardous locations. The MICROSERIES **Class 1, Division 2 approved** relays have been tested to UL and CSA standards.

### RIDERSERIES

---

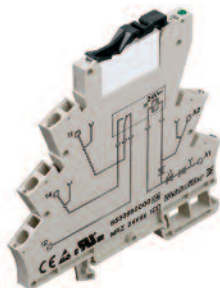


The RIDERSERIES range is also available in combination with **Weidmuller's industrial relay RCM** – it then offers characteristics comparable with Weidmuller's power relay RCL: these couplers are equally modular in design, and, as well as the optionally available screw or tension clamp connections, fulfil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

## Product Overview Relay Couplers

## MICROSERIES

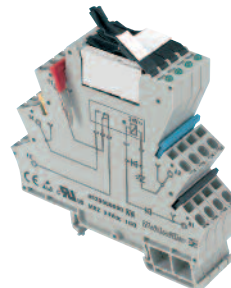
## MRS/MRZ 1 changeover contact



- 1 changeover contact 250 VAC / 6 A
- 6 mm in width
- miniature all-or-nothing relays for separation of potentials as well as for switching small to medium-sized loads

## MICROSERIES

## MRS/MRZ 1 changeover contact



**Class 1  
Div. 2  
APPROVED**

- Class 1, Division 2 approved for use in hazardous and general locations
- 6.1 mm wide
- Miniature relays for separation of potentials and switching small to medium-sized loads

Fully assembled	<b>Nominal voltage</b>
	12 VDC
	24 VDC
	24 VDC
	24 VAC
	24 VAC
	24 VAC/DC
	24 VAC/DC
	115 VAC
	115 VAC
	120 VAC/DC
	120 VAC/DC
	230 VAC
	230 VAC
230 VAC/DC	
Individual parts	<b>Description</b>
	Relay 24 VDC
	Relay 24 VAC
	Relay 115 VAC
	Relay 230 VAC
	Base for screw connection
	Base for tension clamp / Push In
	Base for tension clamp / Push In
	Retainer clip, plastic
	Retainer clip, plastic
	Retainer clip, metal
	LED module 24 VDC
	LED module 24 VAC
LED module 110 VAC / 230 VAC	
Acces.	<b>Description</b>
	Plug-in cross connections

Type	Order No.
MRS 24 VDC 1CO	8533640000
MRZ 24 VDC 1CO	8533660000
MRS 24 VUC 1CO	8556050000
MRZ 24 VUC 1CO	8556120000
MRS 120 VUC 1CO	8556030000
MRZ 120 VUC 1CO	8556100000
MRS 230 VAC 1CO	8556020000
MRZ 230 VAC 1CO	8556090000
MRS = screw connection MRZ = tension clamp connection	

Type	Order No.
RSS113024*	4060120000
RSS113060*	4061630000
MXS...	see note
MXZ...	see note

Note for MXS/MXZ base:

MXS	24 VDC	1CO	BASIS	Order No. 8826000000
MXZ	24 VDC	1CO	BASIS	Order No. 8826010000
MXS	120 VUC	1CO	BASIS	Order No. 8826020000
MXZ	120 VUC	1CO	BASIS	Order No. 8826030000
MXS	230 VAC	1CO	BASIS	Order No. 8826040000
MXZ	230 VAC	1CO	BASIS	Order No. 8826050000

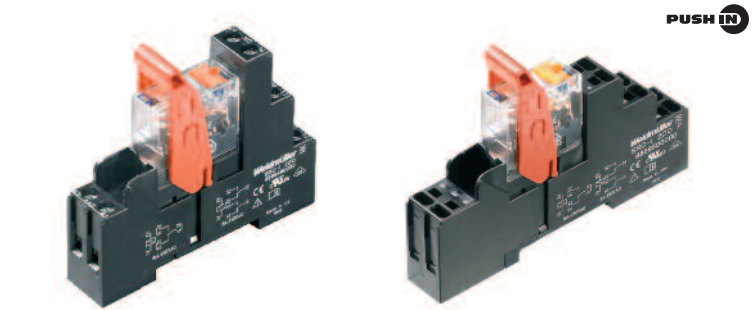
\* Due to the internal rectifying bridge, a 24 VDC relay is used on the 24 VDC, 24 VAC and 230 VAC relay couplers MRS and MRZ; a 60 VDC relay is used on the 120 VAC relay coupler.

Type
ZQV 4N/... available in various colors and pole numbers

Type	Order No.
MRS 12 VDC 1CO C1D2	8967340000
MRS 24 VDC 1CO C1D2	8967350000
MRS 24 VUC 1CO C1D2	8967360000
MRS 120 VUC 1CO RC C1D2	8967370000
MRS 230 VUC 1CO C1D2	8967380000
MRS = screw connection	
<hr/>	
Type	Order No.
<hr/>	
Type	
ZQV 4N/... available in various colors and pole numbers	

RCI-Kit 1 changeover contact

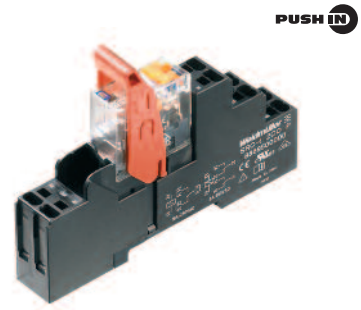


- 1 changeover contact 250 VAC / 16 A
- 15 mm in width
- industrial relays for separating potentials and switching medium-sized loads

Type with test button	Order No.
RCIKIT 24 VDC 1CO LD/PB	8881580000
RCIKITP 24 VDC 1CO LD/PB	8897190000
RCIKIT 24 VAC 1CO LD/PB	8881590000
RCIKITP 24 VAC 1CO LD/PB	8897200000
RCIKIT 120 VAC 1CO LD/PB	8897060000
RCIKITP 120 VAC 1CO LD/PB	8897210000
RCIKIT 230 VAC 1CO LD/PB	8881600000
RCIKITP 230 VAC 1CO LD/PB	8897220000
RCIKIT = screw connection RCIKITP = Push In connection	

Type	Order No.
RCI374AC4	8870250000
RCI374R24	8870280000
RCI374S15	8870290000
RCI374T30	8870300000
SRC-I 2CO	8869490000
SRC-I 2CO P	8869500000
SRC-I CLIP HP	8869510000
SRC-I CLIP HM	8869570000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SRC-I QV for push-in base, 2-pole	8870840000

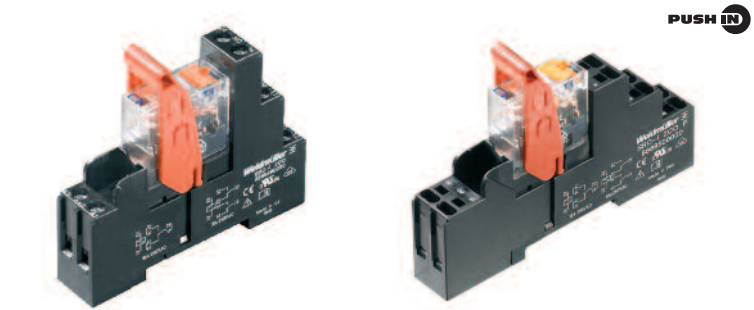


Type without test button	Order No.
RCIKIT 24 VDC 1CO LED	8871000000
RCIKITP 24 VDC 1CO LD	8897110000
RCIKIT 24 VAC 1CO LED	8871010000
RCIKITP 24 VAC 1CO LD	8897120000
RCIKIT 120 VAC 1CO LD	8897090000
RCIKITP 120 VAC 1CO LD	8897130000
RCIKIT 230 VAC 1CO LED	8871020000
RCIKITP 230 VAC 1CO LD	8897140000
RCIKIT = screw connection RCIKITP = Push In connection	

Type	Order No.
RCI314AC4	8870100000
RCI314R24	8870130000
RCI314S15	8870140000
RCI314T30	8870150000
SRC-I 2CO	8869490000
SRC-I 2CO P	8869500000
SRC-I CLIP HP	8869510000
SRC-I CLIP HM	8869570000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SRC-I QV for push-in base, 2-pole	8870840000

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	Order No.
RCIKIT 24 VDC 2CO LD/PB	8881610000
RCIKITP 24 VDC 2CO LD/PB	8897230000
RCIKIT 24 VAC 2CO LD/PB	8881620000
RCIKITP 24 VAC 2CO LD/PB	8897240000
RCIKIT 120 VAC 2CO LD/PB	8897080000
RCIKITP 120 VAC 2CO LD/PB	8897250000
RCIKIT 230 VAC 2CO LD/PB	8881630000
RCIKITP 230 VAC 2CO LD/PB	8897260000
RCIKIT = screw connection RCIKITP = Push In connection	

Type	Order No.
RCI484AC4	8870320000
RCI484R24	8870350000
RCI484S15	8870360000
RCI484T30	8870370000
SRC-I 2CO	8869490000
SRC-I 2CO P	8869500000
SRC-I CLIP HP	8869510000
SRC-I CLIP HM	8869570000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SRC-I QV for push-in base, 2-pole	8870840000

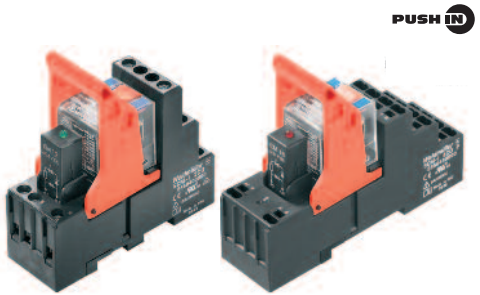
Type without test button	Order No.
RCIKIT 24 VDC 2CO LED	8871030000
RCIKITP 24 VDC 2CO LD	8897150000
RCIKIT 24 VAC 2CO LED	8871040000
RCIKITP 24 VAC 2CO LD	8897160000
RCIKIT 120 VAC 2CO LD	8897100000
RCIKITP 120 VAC 2CO LD	8897170000
RCIKIT 230 VAC 2CO LED	8871050000
RCIKITP 230 VAC 2CO LD	8897180000
RCIKIT = screw connection RCIKITP = Push In connection	

Type	Order No.
RCI424AC4	8870180000
RCI424R24	8870210000
RCI424S15	8870220000
RCI424T30	8870230000
SRC-I 2CO	8869490000
SRC-I 2CO P	8869500000
SRC-I CLIP HP	8869510000
SRC-I CLIP HM	8869570000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SRC-I QV for push-in base, 2-pole	8870840000



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

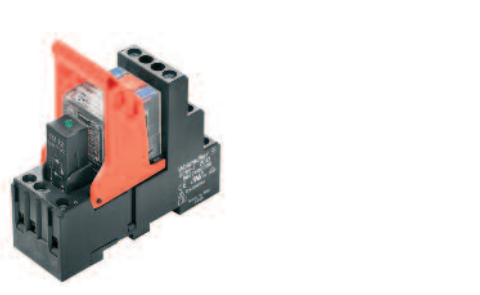
Type	Order No.
RCMKIT-I 24 VDC 2CO LD	8920940000
RCMKITP-I 24 VDC 2CO LD	8921080000
RCMKIT-I 24 VAC 2CO LD	8920950000
RCMKITP-I 24 VAC 2CO LD	8921090000
RCMKIT-I 115 VAC 2CO LD	8920960000
RCMKITP-I 115 VAC 2CO LD	8921100000
RCMKIT-I 230 VAC 2CO LD	8920970000
RCMKITP-I 230 VAC 2CO LD	8921110000
RCMKIT-I = screw connection RCMKITP-I = Push In connection	

Type	Order No.
RCM270024	8689860000
RCM270524	8689760000
RCM270615	8689800000
RCM270730	8689820000
SCM-I 2CO	8869400000
SCM-I 2CO P	8876220000
SCM-I CLIP P	8869440000
SCM-I CLIP N	8875620000
SCM-I CLIP M	8869450000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SCM-I QV for push-in base, 2-pole	8870850000

We recommend the use of differently colored LEDs to differentiate between AC and DC relays. green = DC module / red = AC module

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

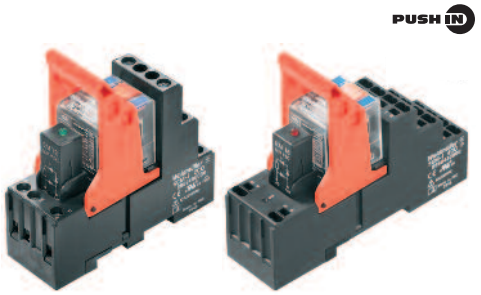
Type	Order No.
RCMKIT-I 24 VDC 3CO LD	8920980000
RCMKITP-I 24 VDC 3CO LD	8920990000
RCMKIT-I 115 VAC 3CO LD	8921010000
RCMKITP-I 115 VAC 3CO LD	8921020000
RCMKIT-I 230 VAC 3CO LD	8921020000
RCMKITP-I 230 VAC 3CO LD	8921030000
RCMKIT-I = screw connection	

Type	Order No.
RCM370024	8690040000
RCM370524	8690030000
RCM370615	8689980000
RCM370730	8690000000
SCM-I 3CO N	8869410000
SCM-I CLIP P	8869440000
SCM-I CLIP N	8875620000
SCM-I CLIP M	8869450000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SCM-I QV for push-in base, 2-pole	8870850000

We recommend the use of differently colored LEDs to differentiate between AC and DC relays. green = DC module / red = AC module

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	Order No.
RCMKIT-I 24 VDC 4CO LD	8921030000
RCMKITP-I 24 VDC 4CO LD	8921120000
RCMKIT-I 24 VAC 4CO LD	8921040000
RCMKITP-I 24 VAC 4CO LD	8921130000
RCMKIT-I 115 VAC 4CO LD	8921050000
RCMKITP-I 115 VAC 4CO LD	8921140000
RCMKIT-I 230 VAC 4CO LD	8921060000
RCMKITP-I 230 VAC 4CO LD	8921150000
RCMKIT-I = screw connection RCMKITP-I = Push In connection	

Type	Order No.
RCM570024	8690200000
RCM570524	8690110000
RCM570615	1180800000
RCM570730	1181100000
SCM-I 4CO	8869420000
SCM-I 4CO N	8869390000
SCM-I 4CO P	8869430000
SCM-I CLIP P	8869440000
SCM-I CLIP N	8875620000
SCM-I CLIP M	8869450000
RIM-I 2 6/24 VDC GN	8869600000
RIM-I 3 6/24 VUC RD	8869630000
RIM-I 3 110/230 VUC RD	8869650000

Type	Order No.
SCM-I QV for push-in base, 2-pole	8870850000

We recommend the use of differently colored LEDs to differentiate between AC and DC relays. green = DC module / red = AC module

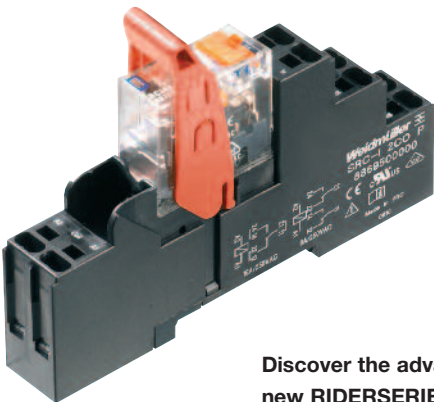
# RIDERSERIES Advantages

## Safe. Fast. RIDERSERIES.

The RIDERSERIES relays with industrial pinning and bases with Push In connectivity.

Profit from the unbeatable advantages offered by the RIDERSERIES relays:

- Safe: industrial pinning
- Useful: free-wheeling diode and LED indicator
- Practical: test lever for mechanical operation of the contacts
- Fast: base with Push In connection
- Time-saving: cross connections can be instantly plugged-in



Discover the advantages of our new RIDERSERIES for yourself.

Nominal voltage
12 VDC
24 VDC
24 VDC
24 VAC
24 VAC
24 VAC/DC
24 VAC/DC
115 VAC
115 VAC
120 VAC/DC
120 VAC/DC
230 VAC
230 VAC
230 VAC/DC

Fully assembled

Description
Relay 24 VDC
Relay 24 VAC
Relay 115 VAC
Relay 230 VAC
Base for screw connection
Base for tension clamp / Push In
Base for tension clamp / Push In
Retainer clip, plastic
Retainer clip, plastic
Retainer clip, metal
LED module 24 VDC
LED module 24 VAC
LED module 110 VAC / 230 VAC

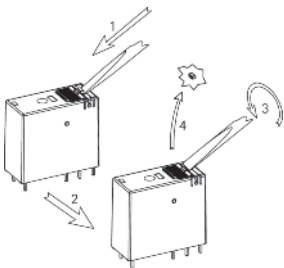
Individual parts

Description
Plug-in cross connections

Acces.

## Safe. Simple. RCI.

The new RCI power relays from Weidmuller have been developed for use in industrial applications. Thanks to their outstanding contact properties, the relays can handle power up to 16 A with 24 VDC or 230 VAC. To split the signal, simply use two changeover contacts, in which case the contacts each switch loads of up to 8 A with 24 VDC or 230 VAC. As a handy extra detail, the AC and DC inputs are different colors for easy identification.



Reducing assembly time into the base: the integrated free-wheeling diode (DC) and the LED indicator.



Easy to use: test lever for mechanical operation of the contacts.

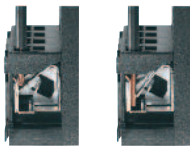


Simply release the catch and the test lever will click into place.

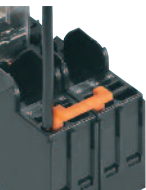
## Fast. Straightforward. Push In.

RIDERSERIES relay bases are equipped with Push In connectivity. That means you need 75 % less time for wiring than for a relay base with a screw connection because solid and crimped conductors can simply be inserted without the need to open the clamping point. Other accessories include modules for input wiring, retaining clips and multicard markers.

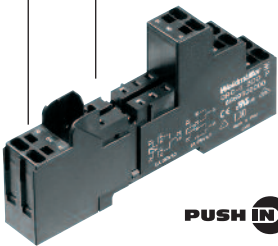
It's never been so easy. Insert the conductor and you're done – a safe connection has been made! Each connection has two clamping points for conductors up to 1.5 mm<sup>2</sup> (16 AWG).



Extremely practical: a universal slot allows you to add modules to wire the relay coil, e.g. for varistors, resistances or RC combinations.



Time-saving cross-connections: two-pin bridges for instantly plug-gable electrical distribution in the input and output. You only need one clamping point for each Push In connection – the second one remains free for other connections!



Argentina  
Australia  
Austria  
Azerbaijan  
Bahrain  
Belarus  
Belgium  
Bosnia-  
Herzegovina  
Brazil  
Bulgaria  
Canada  
Chile  
China  
Colombia  
Costa Rica  
Croatia  
Czech Republic  
Denmark  
Ecuador  
Egypt  
Estonia  
Finland  
France  
Germany  
Greece  
Hong Kong  
Hungary  
Iceland  
India  
Indonesia

Iran  
Ireland  
Israel  
Italy  
Japan  
Jordan  
Kazakhstan  
Kuwait  
Latvia  
Lebanon  
Lithuania  
Luxembourg  
Macedonia  
Malaysia  
Malta  
Mexico  
Montenegro  
Netherlands  
New Zealand  
Norway  
Oman  
Paraguay  
Peru  
Philippines  
Poland  
Portugal  
Qatar  
Romania  
Russia  
Saudi Arabia  
Serbia

Singapore  
Slovakia  
Slovenia  
South Africa  
South Korea  
Spain  
Sweden  
Switzerland  
Syria  
Taiwan  
Thailand  
Turkey  
UAE  
Ukraine  
United Kingdom  
Uruguay  
USA  
Venezuela  
Vietnam  
Yemen

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.

Weidmuller, Canada  
10 Spy Court  
Markham, Ontario L3R 5H6  
Telephone: (800) 268-4080  
Facsimile: (905) 475-2798  
Email: [info1@weidmuller.ca](mailto:info1@weidmuller.ca)  
Website: [www.weidmuller.ca](http://www.weidmuller.ca)

Weidmuller, Mexico  
Blvd. Hermanos Serdán 698,  
Col. San Rafael Oriente  
Puebla, Puebla, Mexico  
C.P. 72029  
Telephone: 01 222 2686267  
Facsimile: 01 222 2686219  
Email: [clientes@weidmuller.com.mx](mailto:clientes@weidmuller.com.mx)  
Website: [www.weidmuller.com.mx](http://www.weidmuller.com.mx)

Weidmuller, United States  
821 Southlake Blvd.  
Richmond, Virginia 23236  
Telephone: (800) 849-9343  
Facsimile: (804) 379-2593  
Email: [info@weidmuller.com](mailto:info@weidmuller.com)  
Website: [www.weidmuller.com](http://www.weidmuller.com)