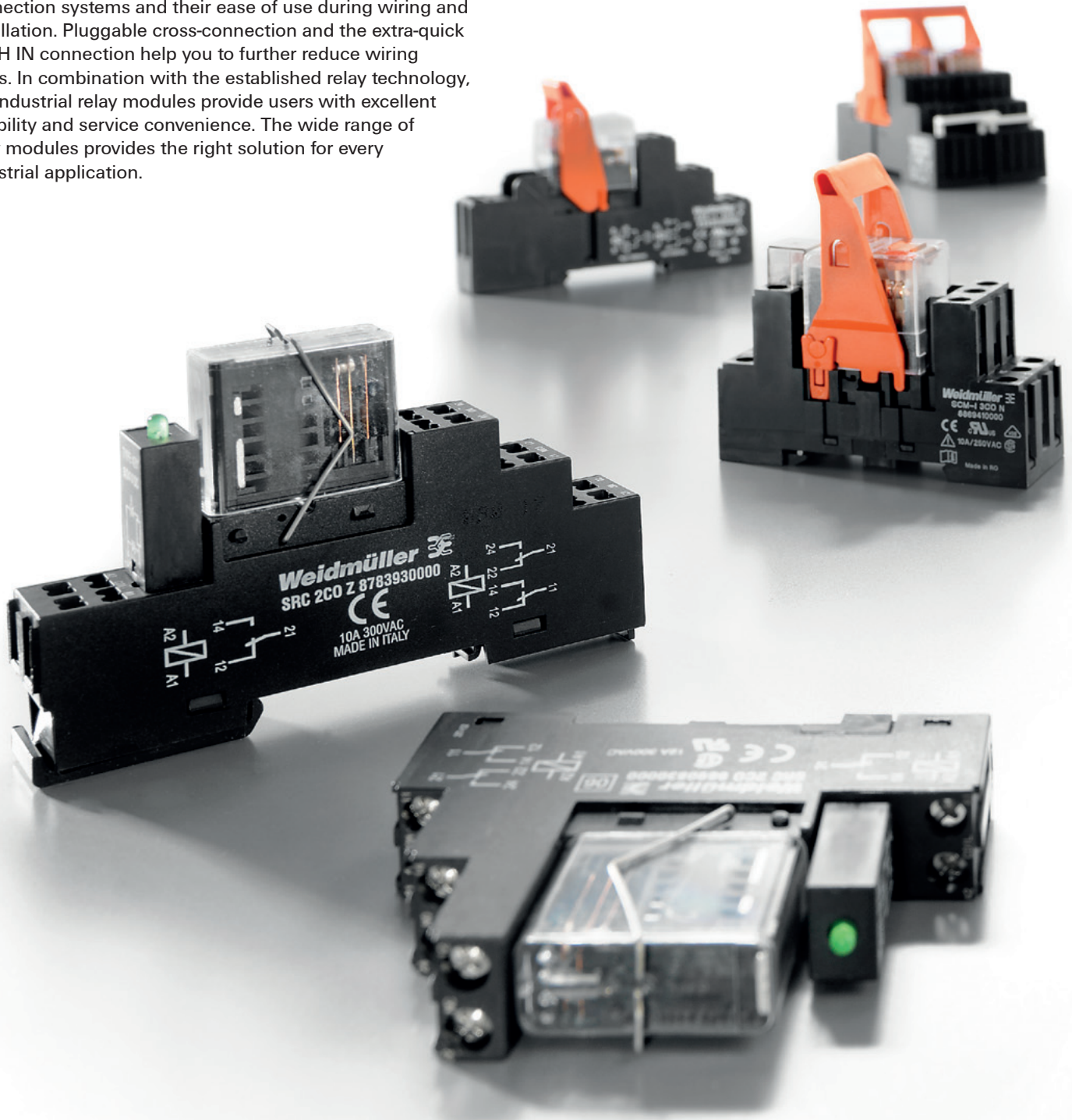


Industrial relay module with the proven connection technology

Easy handling and safe connections

B

Weidmüller's relay bases are remarkable for their secure connection systems and their ease of use during wiring and installation. Pluggable cross-connection and the extra-quick PUSH IN connection help you to further reduce wiring times. In combination with the established relay technology, our industrial relay modules provide users with excellent reliability and service convenience. The wide range of relay modules provides the right solution for every industrial application.





Coupling modules – the industrial standard

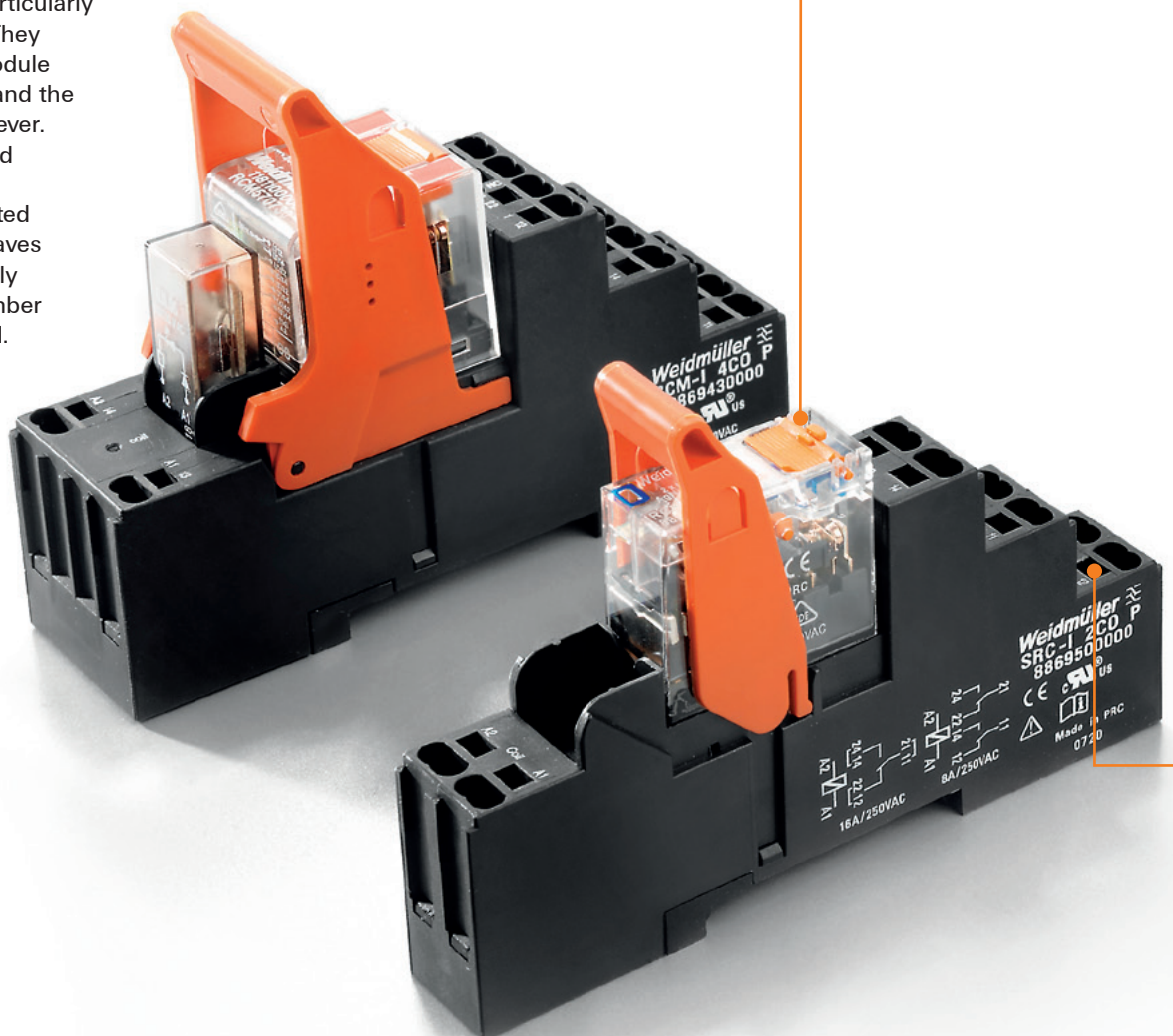


Relay module with 1 to 4 CO contacts

The RIDER SERIES and its RCI, RCM, RRD and RPW product lines have been successfully integrated into the entire Weidmüller line of relay products. This modular-designed product series formally complies with international standards. A variety of pluggable versions are available with from one to four CO contacts and your choice of connection method.

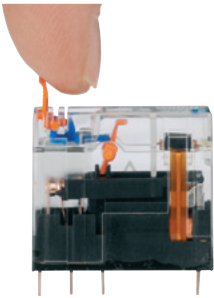
Our innovative relay bases with PUSH IN connection systems are available for both the RCI/RCL and RCM product lines. PUSH IN technology is safe and easy to use and it allows you to reduce costs with less wiring time. The relay modules are designed for industrial applications and feature sturdy relay pins and industrial-standard pinning. A mechanically operated, stay-down test button is integrated into the design. It enables switching statuses to be simulated during initial commissioning. Additional product features include LED status indicators and free-wheel diodes (DC).

Our relay kits are particularly convenient to use. They include the relay module with status display and the base with ejection lever. The kits are delivered fully assembled and with completely tested functionality. This saves time during assembly and reduces the number of products required.



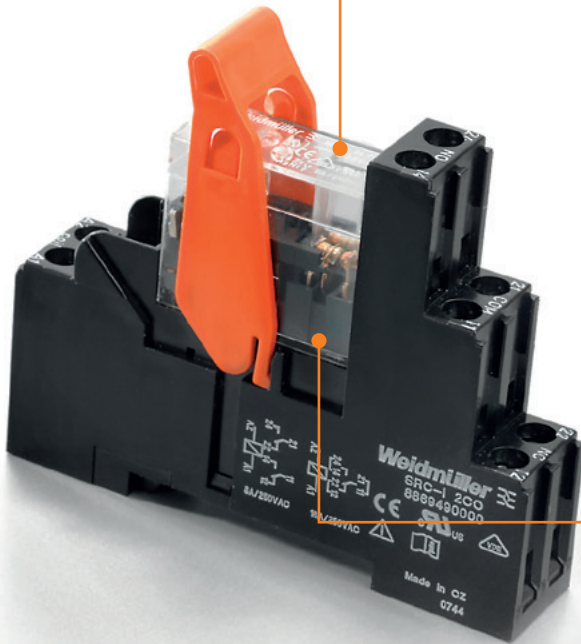
Simple

The stay-down test button simplifies commissioning and service work.



Customised

Suppressor circuitry and LED can be integrated into a relay module or as a pluggable module at the base.

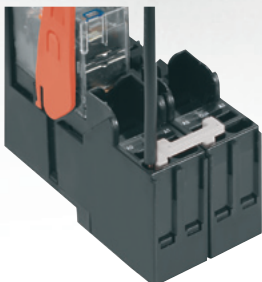
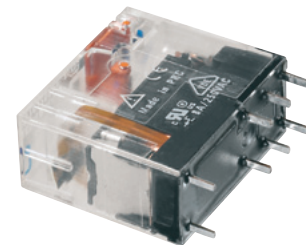


Safe

The heavy-duty industrial pins ensure a reliable connection.

Saves time

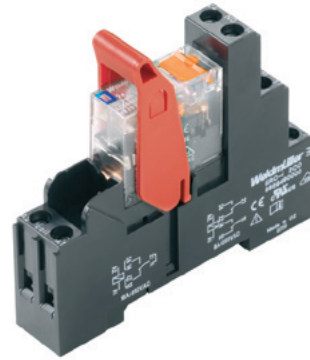
No-screw PUSH IN connections and cross-connections can reduce wiring time by more than 50 %.



RCI KIT with screw connection

1 CO contact

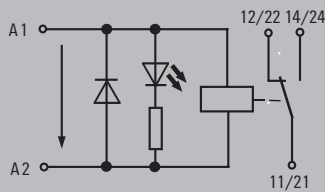
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



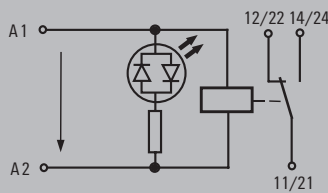
Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 16 A ¹⁾
Max. switching voltage, AC	400 V
Making current	30 A / 4 s
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching power	4000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...+70 °C
Storage temperature	-40 °C...+70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE; GL; GOSTME25
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff}
Dielectric strength, contact / contact	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Surge voltage category	III
Pollution severity	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Depth x width x height	mm 70 / 15.5 / 77
Note	1) For full continuous current (16 A), relay connections 11 - 21, 12 - 22 and 14 - 24 must be bridged.

DC-Version



AC-Version



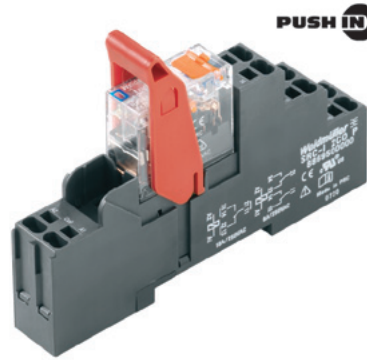
Ordering data

Input		24 V DC 1CO	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 16.7 mA	31.6 mA	7 mA	3.5 mA
Power rating		420 mW	0.75 VA	0.8 VA	0.8 VA
AC response/dropout Volt			18 V / 3.6 V	86.3 V / 17.3 V	172.5 V / 34.5 V
DC response/dropout Volt		16.8 V / 2.4 V			
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Integrated free-wheel diode			
Output					
Switch-on delay		≤ 8 ms	≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data					
Relay with socket					
w. test button	Type	RCIKIT 24VDC 1CO LD/PB	RCIKIT 24VAC 1CO LD/PB	RCIKIT 115VAC 1CO LD/PB	RCIKIT 230VAC 1CO LD/PB
	Order No.	8881580000	8881590000	8897060000	8881600000
w.o. test button	Type	RCIKIT 24VDC 1CO LED	RCIKIT 24VAC 1CO LED	RCIKIT 115VAC 1CO LD	RCIKIT 230VAC 1CO LED
	Order No.	8871000000	8871010000	8897090000	8871020000
Ordering data					
Spare relay		w. test button	w.o. test button	w. test button	w.o. test button
	Type	RCI374AC4	RCI314AC4	RCI374S15	RCI314S15
	Order No.	8870250000	8870100000	8870290000	8870140000
	Type	RCI374T30	RCI314T30	RCI374T30	RCI314T30
	Order No.	8870300000	8870150000	8870300000	8870150000
Note					

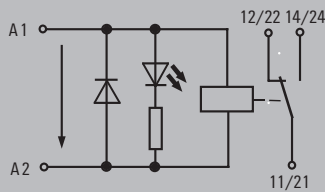
RCI-KITP with PUSH IN connection

1 CO contact

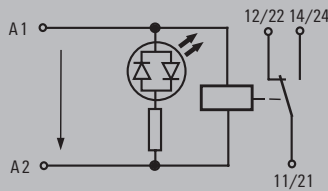
- 4000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



DC-Version



AC-Version



Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 16 A ¹⁾
Max. switching voltage, AC	400 V
Making current	30 A / 4 s
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching power	4000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...+70 °C
Storage temperature	-40 °C...+70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE; GL; GOSTME25
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff}
Dielectric strength, contact / contact	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Surge voltage category	III
Pollution severity	2
Dimensions	
	PUSH IN spring connection
Clamping range (nominal / min. / max.)	mm ² 1.5 / 0.75 / 1.5
Depth x width x height	mm 70 / 15.5 / 98
Note	
	1) For full continuous current (16 A), relay connections 11 - 21, 12 - 22 and 14 - 24 must be bridged.

Ordering data

	24 V DC 1CO	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Input				
Rated control voltage	24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC	/ 16.7 mA	31.6 mA	7 mA	3.5 mA
Power rating	420 mW	0.75 VA	0.8 VA	0.8 VA
AC response/dropout Volt		18 V / 3.6 V	86.3 V / 17.3 V	172.5 V / 34.5 V
DC response/dropout Volt	16.8 V / 2.4 V			
Status indicator	Green LED	red LED	red LED	red LED
Protective circuit	Integrated free-wheel diode			
Output				
Switch-on delay	≤ 8 ms	≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay	≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms

Ordering data

Relay with socket					
w. test button	Type	RCIKITP 24VDC 1CO LD/PB	RCIKITP 24VAC 1CO LD/PB	RCIKITP115VAC 1CO LD/PB	RCIKITP230VAC 1CO LD/PB
	Order No.	8897190000	8897200000	8897210000	8897220000
w.o. test button	Type	RCIKITP 24VDC 1CO LD	RCIKITP 24VAC 1CO LD	RCIKITP 115VAC 1CO LD	RCIKITP 230VAC 1CO LD
	Order No.	8897110000	8897120000	8897130000	8897140000

Ordering data

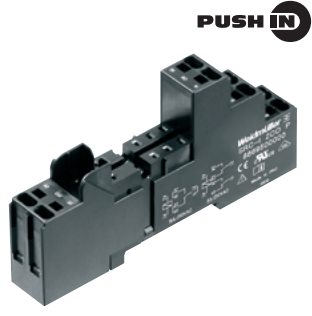
Spare relay		w. test button	w.o. test button	w. test button	w.o. test button	w. test button	w.o. test button
	Type	RCI374AC4	RCI314AC4	RCI374R24	RCI314R24	RCI374S15	RCI314S15
	Order No.	8870250000	8870100000	8870280000	8870130000	8870290000	8870140000
						8870300000	8870150000

Note

RIDERSERIES – RCI KIT 1 CO accessories

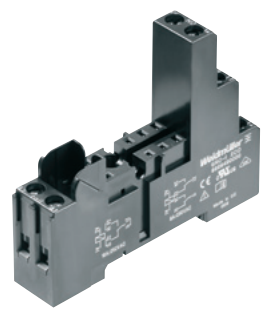
Accessories for RCI KIT relay modules, 1 CO

Plug-in module with PUSH IN connection



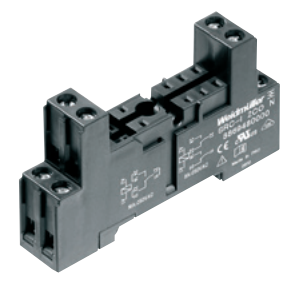
Plug-in module with screw connection

Standard height



Plug-in module with screw connection

Low height



Technical data

Rated current	2 x 12 A*)
Rated voltage	240 V AC
Dielectric strength of coil contacts	4000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	12 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	1 x 1.5 mm ² / 2 x 1.0 mm ²
- Stranded wire	1 x 1.5 mm ² / 2 x 1.0 mm ²
- with ferrule	1 x 1.0 mm ² / 2 x 0.75 mm ²
Rated torque acc. to IEC 61984 for screw connection	

Rated current	2 x 12 A*)
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 3000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm

Rated current	2 x 12 A*)
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 3000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm

Rated current	2 x 12 A*)
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 3000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm

* For 1-pole relay modules (16 A), the following terminals must be connected: 11 with 21, 12 with 22, and 14 with 24.

Ordering data

Description	Type	Qty.	Order No.
Plug-in module, snaps onto TS 35 DIN mounting rail, 2-pole	SRC-I 2CO P		8869500000

Type	Qty.	Order No.
SRC-I 2CO		8869490000

Type	Qty.	Order No.
SRC-I 2CO N		8869480000

Type	Qty.	Order No.
SRC-I 2CO N		8869480000

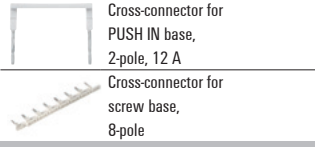
Accessories

Description	Type	Qty.	Order No.
Plastic retaining clip	SRC-I CLIP HP	10	8869510000
Metal retaining clip	SRC-I CLIP HM RCI	20	1132090000
Label	SRC-I MARK	10	8869530000
MultiCard 6x15 mm	ESG 6/15 K MC	200	1880100000
	NEUTR. WS		
	SRC-I QV P		8870840000

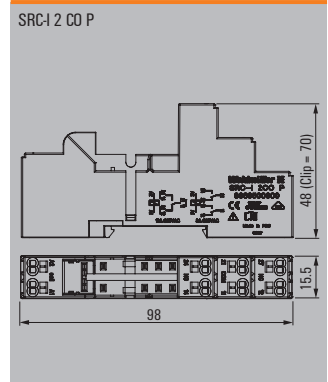
Type	Qty.	Order No.
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 K MC	200	1880100000
NEUTR. WS		
SRC-I QV P		8870840000

Type	Qty.	Order No.
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 K MC	200	1880100000
NEUTR. WS		
SRC-I QV S		1132070000

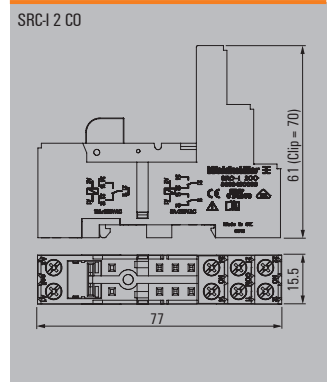
Type	Qty.	Order No.
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 K MC	200	1880100000
NEUTR. WS		
SRC-I QV S		1132070000



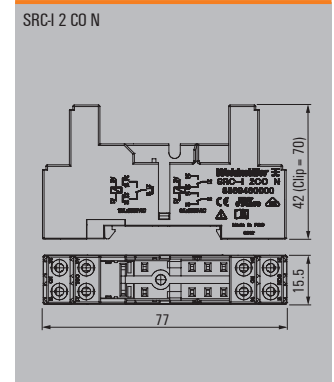
Dimensions



Dimensions



Dimensions



Dimensions in mm

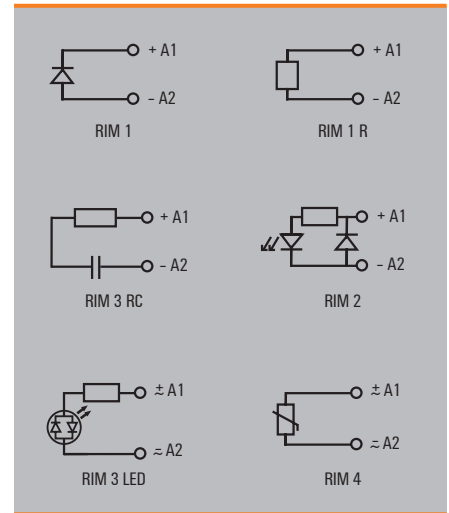
LED and protective modules for the SRC-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

Ordering data

Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC-element 6 ... 60 V AC; 470 Ω / 220 nF
RC-element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ... 60 V DC with free wheel diode
LED 110 ... 230 V DC with free wheel diode
LED 6 ... 24 V DC / V AC
LED 24 ... 60 V DC / V AC
LED 110 ... 230 V DC / V AC

Type	Qty.	Order No.	Order No.
RIM-I 1 6/230V	10	8869580000	
RIM-I 1 R 110/230V	10	8870830000	
RIM-I 3 6/60VAC	10	8869770000	
RIM-I 3 110/230VAC	10	8869790000	
RIM-I 4 24VUC	10	8869710000	
RIM-I 4 110VUC	10	8869730000	
RIM-I 4 230VUC	10	8869750000	
		red	green
RIM-I 2 6/24VDC	10	8869590000	8869600000
RIM-I 2 24/60VDC	10	8869670000	8869680000
RIM-I 2 110/230VDC	10	8869690000	8869700000
RIM-I 3 6/24VUC	10	8869630000	8869640000
RIM-I 3 24/60VUC	10	8869610000	8869620000
RIM-I 3 110/230VUC	10	8869650000	8869660000



Warnings and notes on usage

Handling the PUSH IN connection

Cross-connector mounting for PUSH IN base

Cross-connector mounting for screw base

If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

RCI KIT with screw connection

2 CO contacts

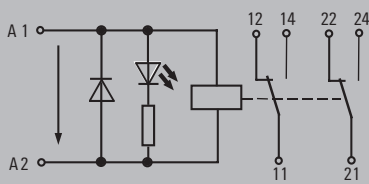
- 2000 VA switching capacity
- Stable plug-in connections
- LED (AC red / DC green) integrated in relay
- Protective suppressor circuit for DC coil
- Optional test button with latching function and inspection window
- Identification of coils (AC red / DC blue)



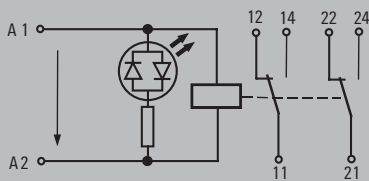
Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 8 A
Max. switching voltage, AC	400 V
Making current	15 A / 4 s
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching power	2000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...+70 °C
Storage temperature	-40 °C...+70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE; GL; GOSTME25
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff}
Dielectric strength, contact / contact	2.5 kV _{eff}
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Surge voltage category	III
Pollution severity	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Depth x width x height	mm 70 / 15.5 / 77
Screw connection	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Depth x width x height	mm 70 / 15.5 / 77
Note	

DC-Version



AC-Version



Ordering data

Input		24 V DC 2CO	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 16.7 mA	31.6 mA	7 mA	3.5 mA
Power rating		420 mW	0.75 VA	0.8 VA	0.8 VA
AC response/dropout Volt			18 V / 3.6 V	86.3 V / 17.3 V	172.5 V / 34.5 V
DC response/dropout Volt		16.8 V / 2.4 V			
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Integrated free-wheel diode			
Output					
Switch-on delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Switch-off delay		≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms
Ordering data					
Relay with socket					
w. test button	Type	RCIKIT 24VDC 2CO LD/PB	RCIKIT 24VAC 2CO LD/PB	RCIKIT 115VAC 2CO LD/PB	RCIKIT 230VAC 2CO LD/PB
	Order No.	8881610000	8881620000	8897080000	8881630000
w.o. test button	Type	RCIKIT 24VDC 2CO LED	RCIKIT 24VAC 2CO LED	RCIKIT 115VAC 2CO LD	RCIKIT 230VAC 2CO LED
	Order No.	8871030000	8871040000	8897100000	8871050000
Ordering data					
Spare relay		w. test button	w.o. test button	w. test button	w.o. test button
	Type	RCI484AC4	RCI424AC4	RCI484S15	RCI424S15
	Order No.	8870320000	8870180000	8870360000	8870220000
	Type	RCI484R24	RCI424R24	RCI484T30	RCI424T30
	Order No.	8870350000	8870210000	8870370000	8870230000
Note					

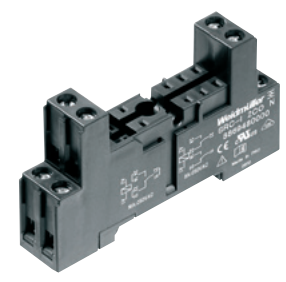
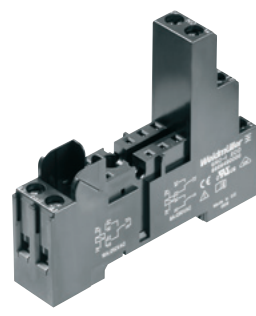
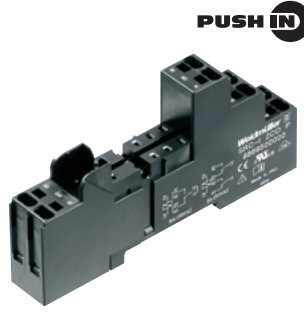
RIDERSERIES – RCI KIT 2 CO accessories

Accessories for RCI KIT relay modules, 2 CO

Plug-in module with PUSH IN connection

Plug-in module with screw connection

Plug-in module with screw connection



Technical data

Rated current	2 x 12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	4000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	12 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	1 x 1.5 mm ² / 2 x 1.0 mm ²
- Stranded wire	1 x 1.5 mm ² / 2 x 1.0 mm ²
- with ferrule	1 x 1.0 mm ² / 2 x 0.75 mm ²
Rated torque acc. to IEC 61984 for screw connection	

Rated current	2 x 12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 3000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm

Rated current	2 x 12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 3000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm

Rated current	2 x 12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 3000 V _{eff}
Ambient temperature (operational)	-25 °C...+85 °C
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm

Ordering data

Description
Plug-in module, snaps onto TS35 DIN mounting rail, 2-pole

Type	Qty.	Order No.
SRC-I 2CO P		8869500000

Type	Qty.	Order No.
SRC-I 2CO		8869490000

Type	Qty.	Order No.
SRC-I 2CO N		8869480000

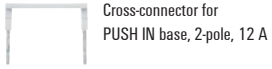
Accessories

Description
Plastic retaining clip
Metal retaining clip
Label
MultiCard 6x15 mm

Type	Qty.	Order No.
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 K MC	200	1880100000
NEUTR. WS		
SRC-I QV P		8870840000

Type	Qty.	Order No.
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 K MC	200	1880100000
NEUTR. WS		
SRC-I QV S		1132070000

Type	Qty.	Order No.
SRC-I CLIP HP	10	8869510000
SRC-I CLIP HM RCI	20	1132090000
SRC-I MARK	10	8869530000
ESG 6/15 K MC	200	1880100000
NEUTR. WS		
SRC-I QV S		1132070000

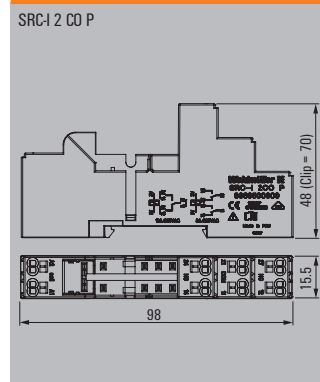


Cross-connector for PUSH IN base, 2-pole, 12 A

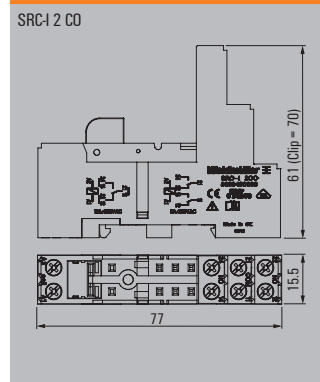


Cross-connector for screw base, 8-pole

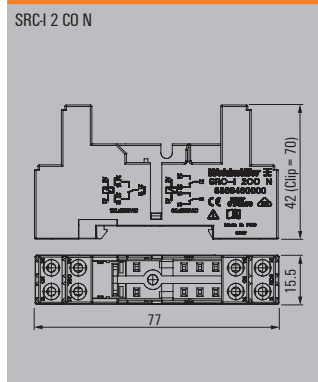
Dimensions



Dimensions



Dimensions



Dimensions in mm

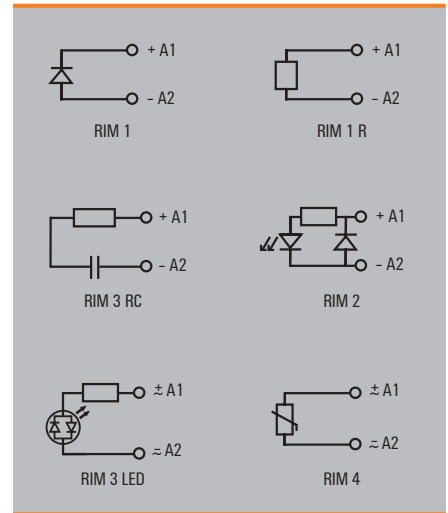
LED and protective modules for the SRC-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

Ordering data

Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC-element 6 ... 60 V AC; 470 Ω / 220 nF
RC-element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ... 60 V DC with free wheel diode
LED 110 ... 230 V DC with free wheel diode
LED 6 ... 24 V DC / V AC
LED 24 ... 60 V DC / V AC
LED 110 ... 230 V DC / V AC

Type	Qty.	Order No.	Order No.
RIM-I 1 6/230V	10	8869580000	
RIM-I 1 R 110/230V	10	8870830000	
RIM-I 3 6/60VAC	10	8869770000	
RIM-I 3 110/230VAC	10	8869790000	
RIM-I 4 24VUC	10	8869710000	
RIM-I 4 110VUC	10	8869730000	
RIM-I 4 230VUC	10	8869750000	
		red	green
RIM-I 2 6/24VDC	10	8869590000	8869600000
RIM-I 2 24/60VDC	10	8869670000	8869680000
RIM-I 2 110/230VDC	10	8869690000	8869700000
RIM-I 3 6/24VUC	10	8869630000	8869640000
RIM-I 3 24/60VUC	10	8869610000	8869620000
RIM-I 3 110/230VUC	10	8869650000	8869660000



Warnings and notes on usage

Handling the PUSH IN connection

Cross-connector mounting for PUSH IN base

Cross-connector mounting for screw base

If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening

RCI relay

1 CO AC/DC coil

- 4000 VA switching capacity
- Stable plug-in connections
- Optional test button with latching function and inspection window
- Optional status indicator (AC red / DC green)
- Optional protective suppressor circuit
- Identification of coils (AC red / DC blue)

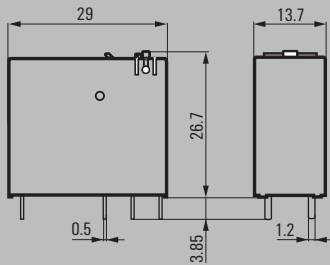
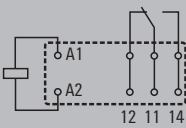


B

Circuit diagram

View on solder pins
dimensions in mm

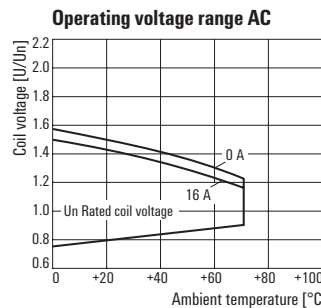
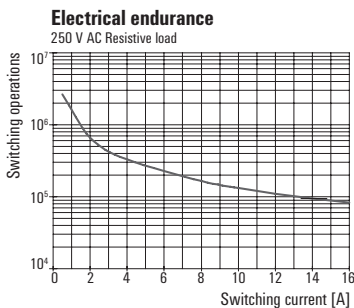
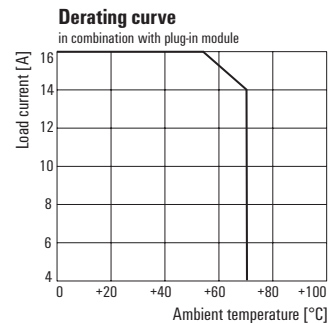
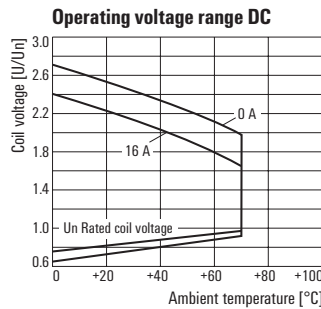
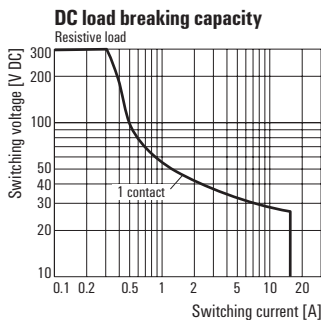
1 C/O changeover contacts



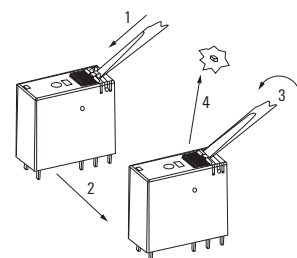
Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 16 A
Max. switching voltage, AC	400 V
Making current	30 A / 4 s
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching power	4000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CSA; cURus; GOSTME25; VDE
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff}
Dielectric strength, contact / contact	
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Surge voltage category	III
Pollution severity	2
Dimensions	
Depth x width x height	mm 25.5 / 13 / x
Plug-in connection	
	mm 25.5 / 13 / x
Note	
	x = 25.5 without test button / 26.7 with test button

Applications



Removal of snap lock



RCI relay

1 CO AC/DC coil

Type code	RCI				
Type	RIDER Control Industrial				
Type of construction					
	3 1-pole, 16 A				
	4 2-pole, 8 A				
Type of contact					
	1 1 CO contact without test button				
	2 2 CO contacts without test button				
	7 1 CO contact with test button				
	8 2 CO contacts with test button				
Contact material					
	4 AgNi 90/10				
Coil					
	012 12 V DC				
	024 24 V DC				
	048 48 V DC				
	110 110 V DC				
	524 24 V AC				
	615 115 V AC				
	730 230 V AC				
	AB2 12 V DC+LED+diode				
	AC4 24 V DC+LED+diode				
	AE8 48 V DC+LED+diode				
	BB0 110 V DC+LED+diode				
	R24 24 V AC+LED				
	S15 115 V AC+LED				
	T30 230 V AC+LED				

Ordering data

	12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Input				
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 33.3 mA	/ 16.7 mA	/ 8.7 mA	/ 4.1 mA
Power rating	400 mW	400 mW	400 mW	400 mW
AC response/dropout Volt				
DC response/dropout Volt	8.4 V / 1.2 V	16.8 V / 2.4 V	33.6 V / 4.8 V	77 V / 11 V
Output				
Switch-on delay	≤ 8 ms	≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay	≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms

Ordering data

Relay		12 V DC 1CO	24 V DC 1CO	48 V DC 1CO	110 V DC 1CO
Standard	Type	RCI314012	RCI314024	RCI314048	RCI314110
	Order No.	886980000	886981000	886982000	886983000
w. test button	Type	RCI374012	RCI374024	RCI374048	RCI374110
	Order No.	886995000	886996000	886997000	886998000
With LED + freewheel diode	Type	RCI314AB2	RCI314AC4	RCI314AE8	RCI314BB0
	Order No.	887009000	887010000	887011000	887012000
With test button + LED + Free-wheel diode	Type	RCI374AB2	RCI374AC4	RCI374AE8	RCI374BB0
	Order No.	887024000	887025000	887026000	887027000

Note

Ordering data

	24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Input			
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	31.6 mA	6.6 mA	3.2 mA
Power rating	0.75 VA	0.75 VA	0.75 VA
AC response/dropout Volt	18 V / 3.6 V	86.3 V / 17.3 V	172.5 V / 34.5 V
DC response/dropout Volt			
Output			
Switch-on delay	≤ 8 ms	≤ 8 ms	≤ 8 ms
Switch-off delay	≤ 6 ms	≤ 6 ms	≤ 6 ms

Ordering data

Relay		24 V AC 1CO	115 V AC 1CO	230 V AC 1CO
Standard	Type	RCI314524	RCI314615	RCI314730
	Order No.	886984000	886985000	886986000
w. test button	Type	RCI374524	RCI374615	RCI374730
	Order No.	886999000	887000000	887001000
with LED	Type	RCI314R24	RCI314S15	RCI314T30
	Order No.	887013000	887014000	887015000
With test button + LED	Type	RCI374R24	RCI374S15	RCI374T30
	Order No.	887028000	887029000	887030000

Note

RCI relay

2 CO AC/DC coil

- 2000 VA switching capacity
- Stable plug-in connections
- Optional test button with latching function and inspection window
- Optional status indicator (AC red / DC green)
- Optional protective suppressor circuit
- Identification of coils (AC red / DC blue)

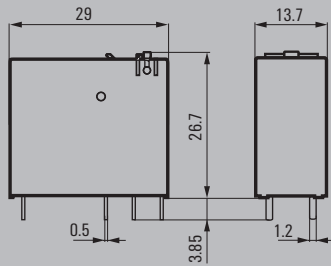
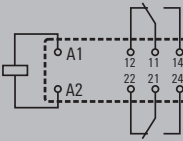


B

Circuit diagram

View on solder pins
dimensions in mm

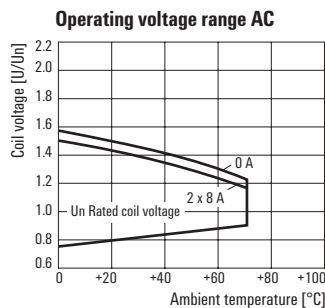
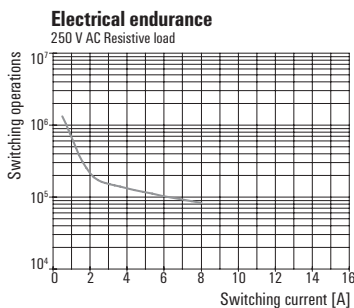
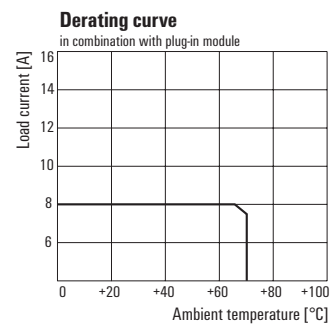
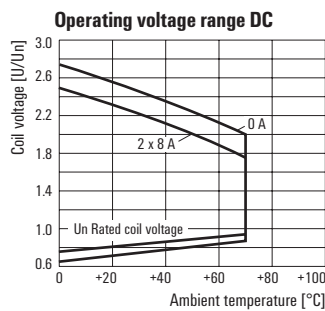
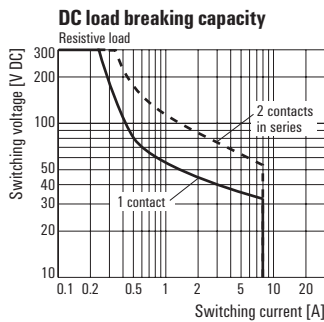
2 C/O changeover contacts



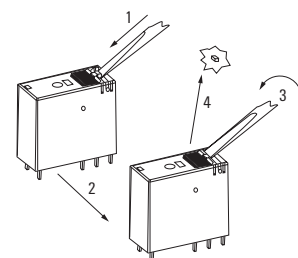
Technical data

Output	
Rated switching voltage / Continuous current	240 V AC / 8 A
Max. switching voltage, AC	400 V
Making current	15 A / 4 s
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching power	2000 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 5 x 10 ⁶ Switch. cycles, DC coil 10 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...+70 °C
Storage temperature	-40 °C...+85 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CSA; cURus; GOSTME25; VDE
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	5 kV _{eff}
Dielectric strength, contact / contact	2.5 kV _{eff}
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 8 mm
Surge voltage category	III
Pollution severity	2
Dimensions	
Depth x width x height	mm 25.5 / 13 / x
Plug-in connection	
Note	
	x = 25.5 without test button / 26.7 with test button

Applications



Removal of snap lock



RCI relay 2 CO AC/DC coil

Type code	RCI				
Type	RIDER Control Industrial				
Type of construction	3 1-pole, 16 A 4 2-pole, 8 A				
Type of contact	1 1 CO contact without test button 2 2 CO contacts without test button 7 1 CO contact with test button 8 2 CO contacts with test button				
Contact material	4 AgNi 90/10				
Coil					
012	12 V DC				
024	24 V DC				
048	48 V DC				
110	110 V DC				
524	24 V AC				
615	115 V AC				
730	230 V AC				
AB2	12 V DC+LED+diode				
AC4	24 V DC+LED+diode				
AE8	48 V DC+LED+diode				
BB0	110 V DC+LED+diode				
R24	24 V AC+LED				
S15	115 V AC+LED				
T30	230 V AC+LED				

Ordering data

Input	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Rated control voltage	12 V DC	24 V DC	48 V DC	110 V DC
Rated current AC / DC	/ 33.3 mA	/ 16.7 mA	/ 8.7 mA	/ 4.1 mA
Power rating	400 mW	400 mW	400 mW	400 mW
AC response/dropout Volt				
DC response/dropout Volt	8.4 V / 1.2 V	16.8 V / 2.4 V	33.6 V / 4.8 V	77 V / 11 V
Output				
Switch-on delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Switch-off delay	≤ 6 ms	≤ 6 ms	≤ 6 ms	≤ 6 ms

Ordering data

Relay	12 V DC 2CO	24 V DC 2CO	48 V DC 2CO	110 V DC 2CO
Standard	Type RCI424012 Order No. 8869870000	Type RCI424024 Order No. 8869890000	Type RCI424048 Order No. 8869900000	Type RCI424110 Order No. 8869910000
w. test button	Type RCI484012 Order No. 8870020000	Type RCI484024 Order No. 8870030000	Type RCI484048 Order No. 8870040000	Type RCI484110 Order No. 8870050000
With LED + freewheel diode	Type RCI424AB2 Order No. 8870170000	Type RCI424AC4 Order No. 8870180000	Type RCI424AE8 Order No. 8870190000	Type RCI424BB0 Order No. 8870200000
With test button + LED + Free-wheel diode	Type RCI484AB2 Order No. 8870310000	Type RCI484AC4 Order No. 8870320000	Type RCI484AE8 Order No. 8870330000	Type RCI484BB0 Order No. 8870340000

Note

Ordering data

Input	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Rated control voltage	24 V AC	115 V AC	230 V AC
Rated current AC / DC	31.6 mA	6.6 mA	3.2 mA
Power rating	0.75 VA	0.75 VA	0.75 VA
AC response/dropout Volt	18 V / 3.6 V	86.3 V / 17.3 V	172.5 V / 34.5 V
DC response/dropout Volt			
Output			
Switch-on delay	≤ 10 ms	≤ 10 ms	≤ 10 ms
Switch-off delay	≤ 6 ms	≤ 6 ms	≤ 6 ms

Ordering data

Relay	24 V AC 2CO	115 V AC 2CO	230 V AC 2CO
Standard	Type RCI424524 Order No. 8869920000	Type RCI424615 Order No. 8869930000	Type RCI424730 Order No. 8869940000
w. test button	Type RCI484524 Order No. 8870060000	Type RCI484615 Order No. 8870070000	Type RCI484730 Order No. 8870080000
with LED	Type RCI424R24 Order No. 8870210000	Type RCI424S15 Order No. 8870220000	Type RCI424T30 Order No. 8870230000
With test button + LED	Type RCI484R24 Order No. 8870350000	Type RCI484S15 Order No. 8870360000	Type RCI484T30 Order No. 8870370000

Note

RIDERSERIES – relay modules

RCM KIT

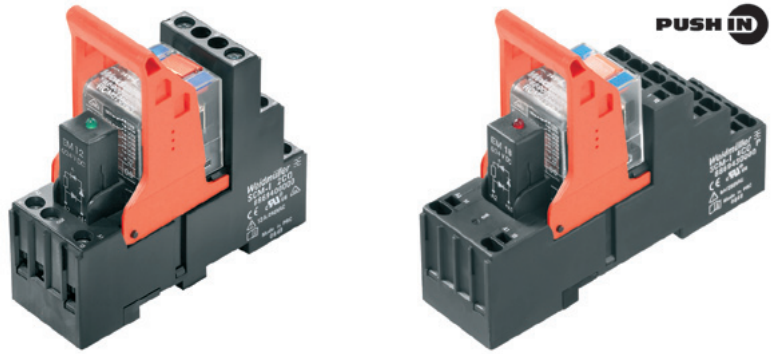
2 CO contacts, AC/ DC coil

Modular system comprising of:

- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relays with coil identification (AC red / DC blue)
- Markers

Independent of connection system:

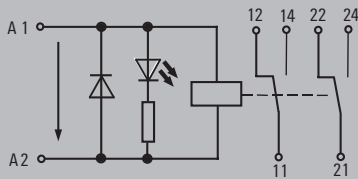
- Screw or PUSH IN connection system



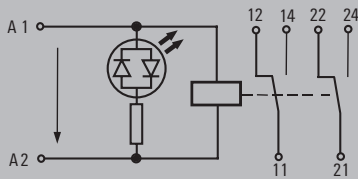
Technical data

Output		
Rated switching voltage / Continuous current	240 V AC / 12 A	
Max. switching voltage, AC	400 V	
Making current	24 A / 20 ms	
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA	
Max. switching power	3000 VA	
Contact material	AgNi 90/10	
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles	
Max. switching frequency at rated load	0.1 Hz	
Rated data		
Ambient temperature (operational)	-40 °C...+70 °C	
Storage temperature	-40 °C...+70 °C	
Humidity	40 °C / 93 % rel. humidity, no condensation	
Approvals	CE; GL; GOSTME25	
Insulation coordination (EN 50178)		
Rated voltage	250 V	
Impulse withstand voltage	5 kV (1.2/50 µs)	
Dielectric strength input - output	2.5 kV _{eff}	
Dielectric strength, contact / contact	2.5 kV _{eff}	
Dielectric strength to mounting rail		
Creepage and clearance distance input - output	≥ 4 mm	
Surge voltage category	III	
Pollution severity	2	
Dimensions		
Clamping range (nominal / min. / max.)	Screw connection	2.5 / 0.5 / 2.5
	PUSH IN spring connection	1.5 / 0.75 / 1.5
Depth x width x height	Screw connection	79 / 28 / 77
	PUSH IN spring connection	79 / 28 / 98
Note		

DC-Version



AC-Version



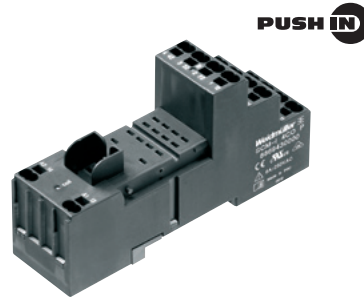
Ordering data

Input		24 V DC 2CO LED	24 V AC 2CO LED	115 V AC 2CO LED	230 V AC 2CO LED
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 31.3 mA	41.6 mA	8.8 mA	4.3 mA
Power rating		740 mW	1.0 VA	1.0 VA	1.0 VA
AC response/dropout Volt			19.2 V / 7.2 V	92 V / 34.5 V	184.0 V / 69.0 V
DC response/dropout Volt		18.0 V / 2.4 V			
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Integrated free-wheel diode			
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
Relay with socket					
Screw connection	Type	RCMKIT-I 24VDC 2CO LD	RCMKIT-I 24VAC 2CO LD	RCMKIT-I 115VAC 2CO LD	RCMKIT-I 230VAC 2CO LD
	Order No.	8920940000	8920950000	8920960000	8920970000
PUSH IN connection	Type	RCMKITP-I 24VDC 2CO LD	RCMKITP-I 24VAC 2CO LD	RCMKITP-I 115VAC 2CO LD	RCMKITP-I 230VAC 2CO LD
	Order No.	8921080000	8921090000	8921100000	8921110000
Ordering data					
Spare relay (pluggable)					
	Type	RCM270024	RCM270524	RCM270615	RCM270730
	Order No.	8689860000	8689760000	8689800000	8689820000
Note					

Accessories for
RCM KIT relay modules, 2 CO

Plug-in module with PUSH IN connection

Plug-in module with screw connection



Technical data

Rated current	12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	12 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	1 x 0.75/1/1.5 mm ² / 2 x 0.75/1 mm ²
- Stranded wire	1 x 0.75/1/1.5 mm ² / 2 x 0.75/1 mm ²
- with ferrule	1 x 0.75/1 mm ² / 2 x 0.75 mm ²
Rated torque acc. to IEC 61984 for screw connection	
Plug-in cycles	A (10)

Rated current	12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm
Plug-in cycles	A (10)

Rated current	12 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm
Plug-in cycles	A (10)



Ordering data

Description
Plug-in module, snaps onto TS35 DIN mounting rail, 2-pole

Type	Qty.	Order No.
SCM-H 2CO P		8876220000

Type	Qty.	Order No.
SCM-H 2CO		8869400000

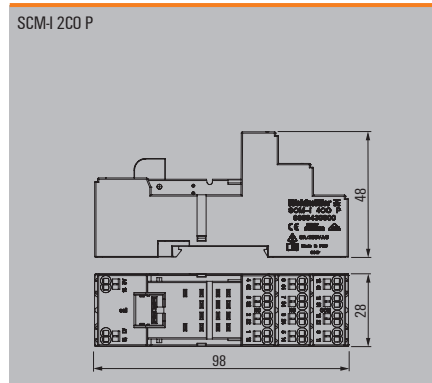
Accessories

Description
Plastic retaining clip
Metal retaining clip
Marker
Marker, Multicard
 Cross-connector for PUSH IN base, 2-pole, 12 A
 Cross-connector for screw base, 6-pole

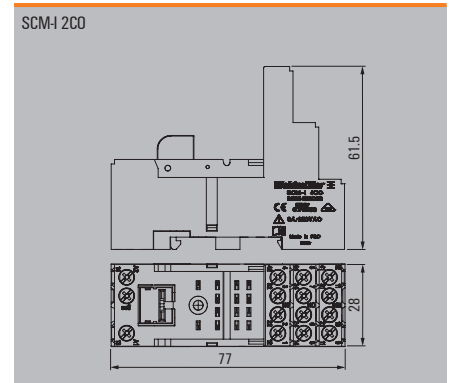
Type	Qty.	Order No.
SCM-H CLIP P	10	8869440000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/11 K MC neutral	200	1857440000
SCM-H QV P	10	8870850000

Type	Qty.	Order No.
SCM-H CLIP P	10	8869440000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/11 K MC neutral	200	1857440000
SCM-H QV S	10	1132080000

Dimensions



Dimensions



Dimensions in mm

RIDERSERIES – RCM KIT 2 CO accessories

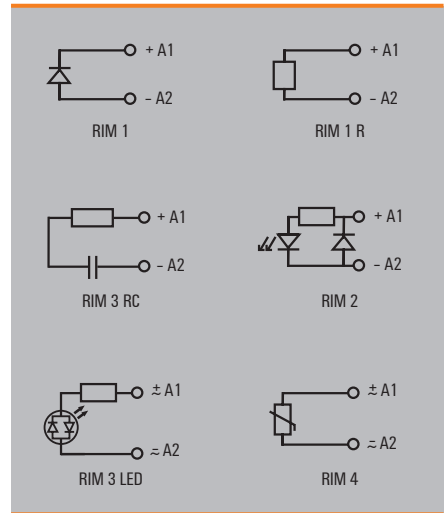
LED and protective modules for the SCM-I plug-in frame

Plug simply into the base module; reverse-connect protection. Connect parallel to coil.

Ordering data

Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC element 6 ... 60 V AC; 470 Ω / 220 nF
RC element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ... 60 V DC with free wheel diode
LED 110 ... 230 V DC with free wheel diode
LED 6 ... 24 V DC / V AC
LED 24 ... 60 V DC / V AC
LED 110 ... 230 V DC / V AC

Type	Qty.	Order No.	Order No.
RIM-I 1 6/230V	10	8869580000	
RIM-I 1 R 110/230V	10	8870830000	
RIM-I 3 6/60VAC	10	8869770000	
RIM-I 3 110/230VAC	10	8869790000	
RIM-I 4 24VUC	10	8869710000	
RIM-I 4 110VUC	10	8869730000	
RIM-I 4 230VUC	10	8869750000	
		red	green
RIM-I 2 6/24VDC	10	8869590000	8869600000
RIM-I 2 24/60VDC	10	8869670000	8869680000
RIM-I 2 110/230VDC	10	8869690000	8869700000
RIM-I 3 6/24VUC	10	8869630000	8869640000
RIM-I 3 24/60VUC	10	8869610000	8869620000
RIM-I 3 110/230VUC	10	8869650000	8869660000



Warnings and notes on usage

Handling the PUSH IN connection

Cross-connector mounting for PUSH IN base

Cross-connector mounting for screw base

Release openings
Wire-connection opening

Screwdriver
SD 0.6 x 3.5 x 100
9008330000

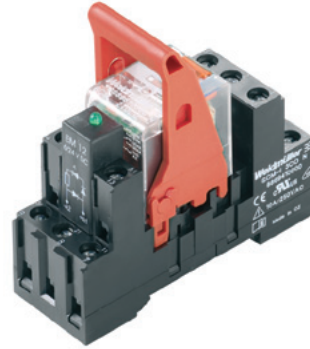
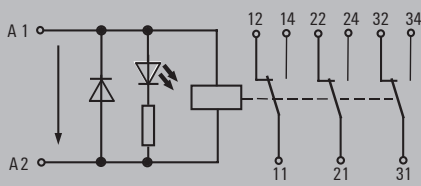
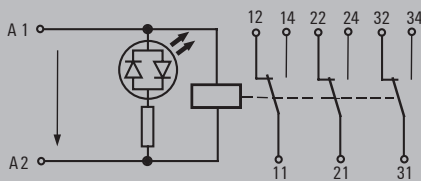
Ø 3.5

If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

RCM KIT**3 CO contacts, AC/ DC coil**

Modular system comprising of:

- Relay socket for rail mounting
- LED display unit (AC red / DC green)
- Retaining clip
- Pluggable relay modules
- Identification of coils (AC red / DC blue)
- Markers

**DC-Version****AC-Version****Technical data**

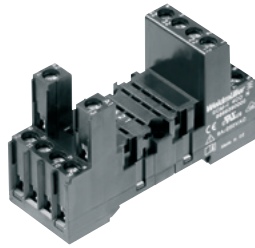
Output	
Rated switching voltage / Continuous current	240 V AC / 10 A
Max. switching voltage, AC	400 V
Making current	20 A / 20 ms
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching power	2500 VA
Contact material	AgNi 90/10
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles
Max. switching frequency at rated load	0.1 Hz
Rated data	
Ambient temperature (operational)	-40 °C...+70 °C
Storage temperature	-40 °C...+70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation
Approvals	CE; GL; GOSTME25
Insulation coordination (EN 50178)	
Rated voltage	250 V
Impulse withstand voltage	5 kV (1.2/50 µs)
Dielectric strength input - output	2.5 kV _{eff}
Dielectric strength, contact / contact	2.5 kV _{eff}
Dielectric strength to mounting rail	
Creepage and clearance distance input - output	≥ 4 mm
Surge voltage category	III
Pollution severity	2
Dimensions	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Depth x width x height	mm 72 / 28 / 74
Screw connection	
Clamping range (nominal / min. / max.)	mm ² 2.5 / 0.5 / 2.5
Depth x width x height	mm 72 / 28 / 74
Note	

Ordering data

	24 V DC 3CO LED	24 V AC 3CO LED	115 V AC 3CO LED	230 V AC 3CO LED
Input				
Rated control voltage	24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC	/ 31.3 mA	41.6 mA	8.8 mA	4.3 mA
Power rating	740 mW	1.0 VA	1.0 VA	1.0 VA
AC response/dropout Volt		19.2 V / 7.2 V	92 V / 34.5 V	184.0 V / 69.0 V
DC response/dropout Volt	18.0 V / 2.4 V			
Status indicator	Green LED	red LED	red LED	red LED
Protective circuit	Integrated free-wheel diode			
Output				
Switch-on delay	≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay	≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data				
Relay with socket				
Screw connection	RCMKIT-I 24VDC 3CO LD	RCMKIT-I 24VAC 3CO LD	RCMKIT-I 115VAC 3CO LD	RCMKIT-I 230VAC 3CO LD
Type				
Order No.	8920980000	8920990000	8921010000	8921020000
Type				
Order No.				
Ordering data				
Spare relay (pluggable)				
Type	RCM370024	RCM370524	RCM370615	RCM370730
Order No.	8690040000	8690030000	8689980000	8690000000
Note				

**Accessories for
RCM KIT relay modules, 3 CO**

Plug-in module with screw connection



Technical data


Rated current	10 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm
Plug-in cycles	A (10)

Ordering data

Description
Plug-in module, snaps onto TS35 DIN mounting rail, 3-pole

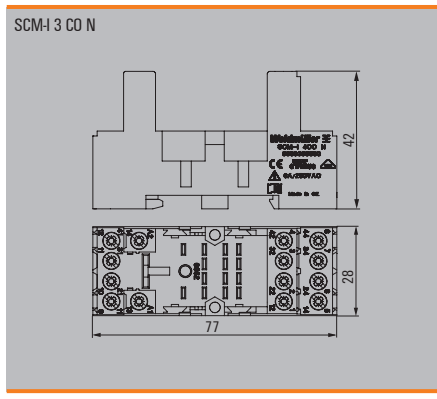
Type	Qty.	Order No.
SCM-H 3CO N		8869410000

Accessories

Description
Plastic retaining clip
Metal retaining clip
Marker
Marker, Multicard
 Cross-connector for screw base, 6-pole

Type	Qty.	Order No.
SCM-H CLIP N	10	8875620000
SCM-H CLIP M	10	8869450000
SCM-H MARK	10	8869460000
ESG 9/11 K MC neutral	200	1857440000
SCM-H QV S	10	1132080000

Dimensions



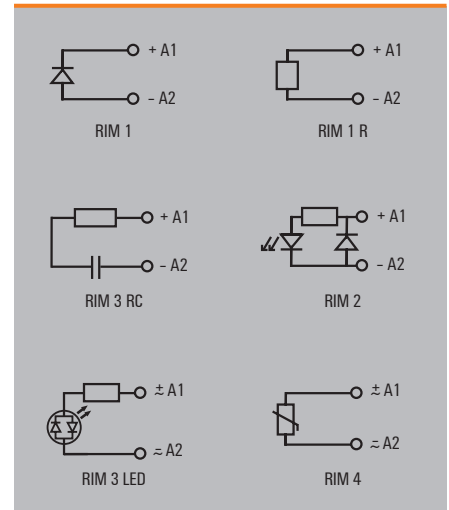
LED and protective modules for the SCM-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

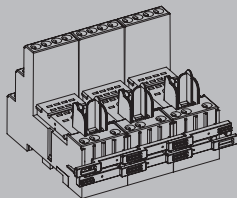
Ordering data

Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC element 6 ... 60 V AC; 470 Ω / 220 nF
RC element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ... 60 V DC with free wheel diode
LED 110 ... 230 V DC with free wheel diode
LED 6 ... 24 V DC / V AC
LED 24 ... 60 V DC / V AC
LED 110 ... 230 V DC / V AC

Type	Qty.	Order No.	Order No.
RIM-I 1 6/230V	10	8869580000	
RIM-I 1 R 110/230V	10	8870830000	
RIM-I 3 6/60VAC	10	8869770000	
RIM-I 3 110/230VAC	10	8869790000	
RIM-I 4 24VUC	10	8869710000	
RIM-I 4 110VUC	10	8869730000	
RIM-I 4 230VUC	10	8869750000	
		red	green
RIM-I 2 6/24VDC	10	8869590000	8869600000
RIM-I 2 24/60VDC	10	8869670000	8869680000
RIM-I 2 110/230VDC	10	8869690000	8869700000
RIM-I 3 6/24VUC	10	8869630000	8869640000
RIM-I 3 24/60VUC	10	8869610000	8869620000
RIM-I 3 110/230VUC	10	8869650000	8869660000

**Warnings and notes on usage**

Cross-connector mounting for screw base



RIDERSERIES – relay modules

RCM KIT

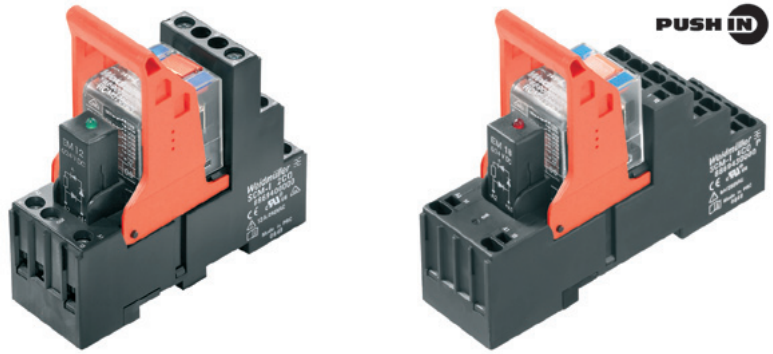
4 CO contacts, AC/ DC coil

Modular system comprising of:

- relay socket for rail mounting
- LED display unit (AC red / DC green)
- retaining clip
- pluggable relays with coil identification (AC red / DC blue)
- Markers

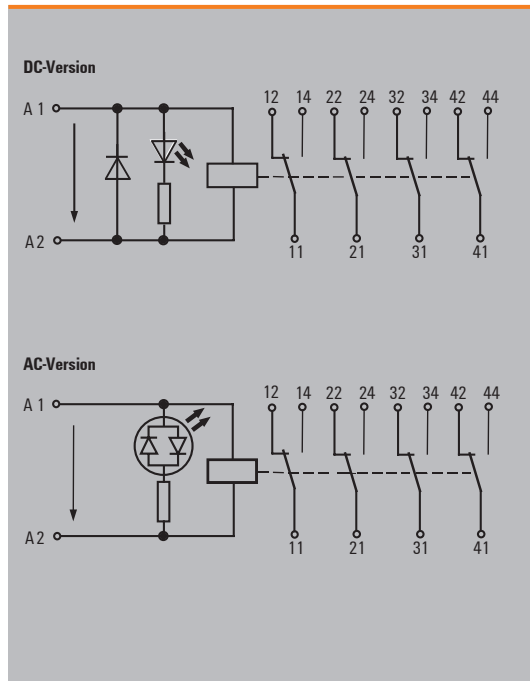
Independent of connection system:

- Screw or PUSH IN connection system



Technical data

Output		
Rated switching voltage	240 V AC 6 A	
Max. switching voltage, AC	240 V	
Making current	12 A / 20 ms	
Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA	
Max. switching power	1500 VA	
Contact material	AgNi 90/10	
Mechanical service life	AC coil 20 x 10 ⁶ Switch. cycles, DC coil 30 x 10 ⁶ Switch. cycles	
Max. switching frequency at rated load	0.1 Hz	
Rated data		
Ambient temperature (operational)	-40 °C...+70 °C	
Storage temperature	-40 °C...+70 °C	
Humidity	40 °C / 93 % rel. humidity, no condensation	
Approvals	CE; GL; GOSTME25	
Insulation coordination (EN 50178)		
Rated voltage	250 V	
Impulse withstand voltage	5 kV (1.2/50 µs)	
Dielectric strength input - output	2.5 kV _{eff}	
Dielectric strength, contact / contact		
Dielectric strength to mounting rail		
Creepage and clearance distance input - output	≥ 4 mm	
Surge voltage category	III	
Pollution severity	2	
Dimensions		
Clamping range (nominal / min. / max.)	Screw connection	2.5 / 0.5 / 2.5
	PUSH IN spring connection	1.5 / 0.75 / 1.5
Depth x width x height	Screw connection	79 / 28 / 77
	PUSH IN spring connection	79 / 28 / 98
Note		



Ordering data

Input		24 V DC 4CO LED	24 V AC 4CO LED	115 V AC 4CO LED	230 V AC 4CO LED
Rated control voltage		24 V DC	24 V AC	115 V AC	230 V AC
Rated current AC / DC		/ 31.3 mA	41.6 mA	8.8 mA	4.3 mA
Power rating		740 mW	1.0 VA	1.0 VA	1.0 VA
AC response/dropout Volt			19.2 V / 7.2 V	92 V / 34.5 V	184.0 V / 69.0 V
DC response/dropout Volt		18.0 V / 2.4 V			
Status indicator		Green LED	red LED	red LED	red LED
Protective circuit		Integrated free-wheel diode			
Output					
Switch-on delay		≤ 15 ms	≤ 15 ms	≤ 15 ms	≤ 15 ms
Switch-off delay		≤ 10 ms	≤ 10 ms	≤ 10 ms	≤ 10 ms
Ordering data					
Relay with socket					
Screw connection	Type	RCMKIT-I 24VDC 4CO LD	RCMKIT-I 24VAC 4CO LD	RCMKIT-I 115VAC 4CO LD	RCMKIT-I 230VAC 4CO LD
	Order No.	8921030000	8921040000	8921050000	8921060000
PUSH IN connection	Type	RCMKITP-I 24VDC 4CO LD	RCMKITP-I 24VAC 4CO LD	RCMKITP-I 115VAC 4CO LD	RCMKITP-I 230VAC 4CO LD
	Order No.	8921120000	8921130000	8921140000	8921150000
Ordering data					
Spare relay (pluggable)					
	Type	RCM570024	RCM570524	RCM570615	RCM570730
	Order No.	8690200000	8690110000	1180800000	1181100000
Note					

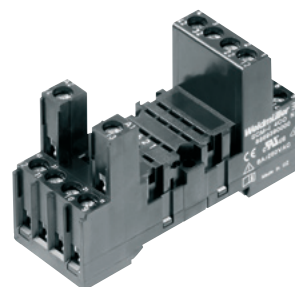
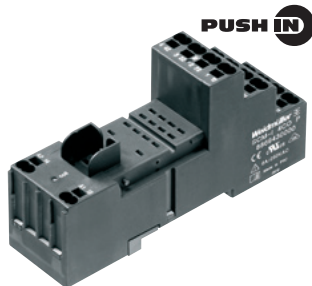
Phone: 800.894.0412 - Fax: 888.723.4773 - Web: www.clwtr.com - Email: info@clwtr.com

Accessories for RCM KIT relay modules, 4 CO

Plug-in module with PUSH IN connection

Plug-in module with screw connection

Plug-in module with screw connection



Technical data

Rated current	6 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	12 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	1 x 0.75/1/1.5 mm ² / 2 x 0.75/1 mm ²
- Stranded wire	1 x 0.75/1/1.5 mm ² / 2 x 0.75/1 mm ²
- with ferrule	1 x 0.75/1 mm ² / 2 x 0.75 mm ²
Rated torque acc. to IEC 61984 for screw connection	
Plug-in cycles	A (10)

Rated current	6 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm
Plug-in cycles	A (10)

Rated current	6 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm
Plug-in cycles	A (10)

Rated current	6 A
Rated voltage	240 V AC
Dielectric strength of coil contacts	> 2500 V _{eff}
Ambient temperature (operational)	-45 °C ...+70 °C
Insulation group (VDE 0110b)	C / 250 V AC
Protection class (IEC 61810)	IP 20
Stripping length	8 mm
Approvals	VDE, cURus, CSA
Connection cross-section	
- Solid-core wire	2 x 2.5 mm ²
- Stranded wire	2 x 2.5 mm ²
- with ferrule	2 x 1.5 mm ²
Rated torque acc. to IEC 61984 for screw connection	0.5 Nm / max. 0.7 Nm
Plug-in cycles	A (10)

Ordering data

Description	Type	Qty.	Order No.
Plug-in module, snaps onto TS35 DIN mounting rail, 4-pole	SCM-I 4CO P		8869430000

Type	Qty.	Order No.
SCM-I 4CO		8869420000

Type	Qty.	Order No.
SCM-I 4CO		8869420000

Type	Qty.	Order No.
SCM-I 4CO N		8869390000

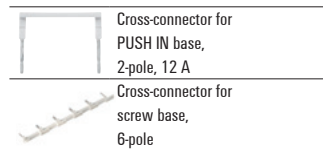
Accessories

Description	Type	Qty.	Order No.
Plastic retaining clip	SCM-I CLIP P	10	8869440000
Plastic retaining clip	SCM-I CLIP M	10	8869450000
Metal retaining clip	SCM-I MARK	10	8869460000
Marker	ESG 9/11 K MC neutral	200	1857440000
Marker, Multicard	SCM-I QV P		8870850000

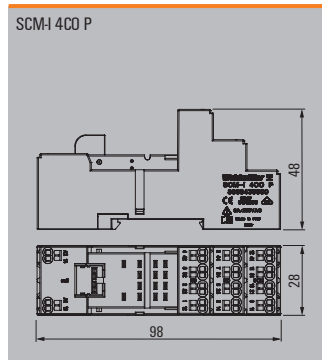
Type	Qty.	Order No.
SCM-I CLIP P	10	8869440000
SCM-I CLIP M	10	8869450000
SCM-I MARK	10	8869460000
ESG 9/11 K MC neutral	200	1857440000
SCM-I QV P		8870850000

Type	Qty.	Order No.
SCM-I CLIP P	10	8869440000
SCM-I CLIP M	10	8869450000
SCM-I MARK	10	8869460000
ESG 9/11 K MC neutral	200	1857440000
SCM-I QV S		1132080000

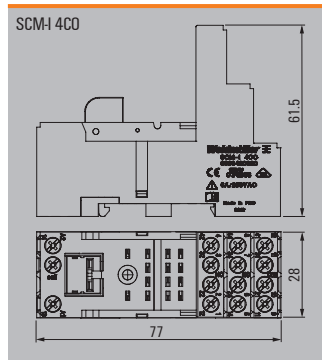
Type	Qty.	Order No.
SCM-I CLIP N	10	8875620000
SCM-I CLIP M	10	8869450000
SCM-I MARK	10	8869460000
ESG 9/11 K MC neutral	200	1857440000
SCM-I QV S		1132080000



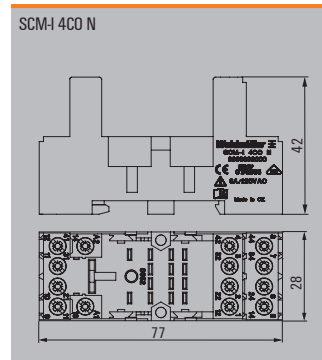
Dimensions



Dimensions



Dimensions



Dimensions in mm

RIDERSERIES – RCM KIT 4 CO accessories

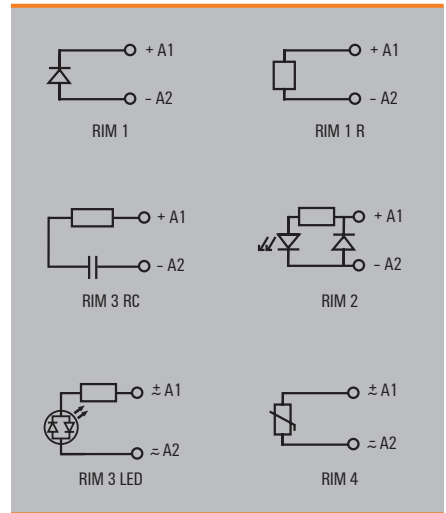
LED and protective modules for the SCM-I plug-in frame

Simply plug into the base module; reverse-connect protection. Connect parallel to coil.

Ordering data

Description
Free Wheel diode 1N4007
Resistor 100 kΩ 1 Watt
RC element 6 ... 60 V AC; 470 Ω / 220 nF
RC element 110 ... 230 V AC; 4.7 Ω / 10 nF
Varistor protection 24 V; S07K30
Varistor protection 110 V; S07K130
Varistor protection 230 V; S07K275
LED
LED 6 ... 24 V DC with free wheel diode
LED 24 ... 60 V DC with free wheel diode
LED 110 ... 230 V DC with free wheel diode
LED 6 ... 24 V DC / V AC
LED 24 ... 60 V DC / V AC
LED 110 ... 230 V DC / V AC

Type	Qty.	Order No.	Order No.
RIM-I 1 6/230V	10	8869580000	
RIM-I 1 R 110/230V	10	8870830000	
RIM-I 3 6/60VAC	10	8869770000	
RIM-I 3 110/230VAC	10	8869790000	
RIM-I 4 24VUC	10	8869710000	
RIM-I 4 110VUC	10	8869730000	
RIM-I 4 230VUC	10	8869750000	
		red	green
RIM-I 2 6/24VDC	10	8869590000	8869600000
RIM-I 2 24/60VDC	10	8869670000	8869680000
RIM-I 2 110/230VDC	10	8869690000	8869700000
RIM-I 3 6/24VUC	10	8869630000	8869640000
RIM-I 3 24/60VUC	10	8869610000	8869620000
RIM-I 3 110/230VUC	10	8869650000	8869660000



Warnings and notes on usage

Handling the PUSH IN connection

Cross-connector mounting for PUSH IN base

Cross-connector mounting for screw base

If more than two poles need to be connected with stacked cross-connector ridges, then the lower ridge must be stripped and shortened to the proper length so it will fit.

Screwdriver
SD 0.6 x 3.5 x 100
9008330000

Release openings
Wire-connection opening