RELAY- AND OPTO-COUPLERS

RELAY- AND OPTO-COUPLERS



MICROSERIES AND PLUGSERIES MICROSERIES

MICROSERIES AND PLUGSERIES

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PRODUCT INFORMATION

When good enough just isn't good enough

Weidmüller

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Advantages of the MICROSERIES

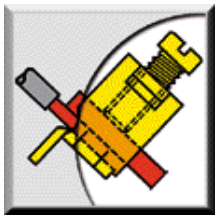
The concept

The relay and optocoupler variants of the **MICROSERIES** Family are used in industrial automation applications to isolate and couple digital input and output signals. Their compact design means that they are particularly suitable for use on sub-distribution boards and in switchgear cabinets where they help the user to make optimum use of valuable space. The **MICROSERIES** provides relay/optocoupler functionality in a terminal block sized housing.

- 6.1-mm mounting width
- Pluggable cross-connections at four of the input and output connections
- Proven cross-connection system ZQV 4N
- Wide input voltage spectrum from 5...230 V
- LED-indicator
  reverse-polarity protection
  free-wheeling diode
- Housing material: WEMID
  Flammability class: V-0 in accordance with UL 94
- Innovative retaining and release system
- Marking surfaces for fitting standard WS 12/6 markers

Coupling modules in terminal block format

The 6.1-mm mounting width of the **MICROSERIES** is particularly suited for applications in industrial automation. The **MICROSERIES** is an optimal solution when refitting or extending installations and machines. These relays and optocouplers facilitate the optimum use of the limited space which exists in switchgear cabinets.





Connection

The greatest possible flexibility when it comes to wiring. The relay sockets are the heart of the new range of relay couplers and optocouplers. The couplers are optionally available with screw or tension clamp technology.

Retaining and release mechanism

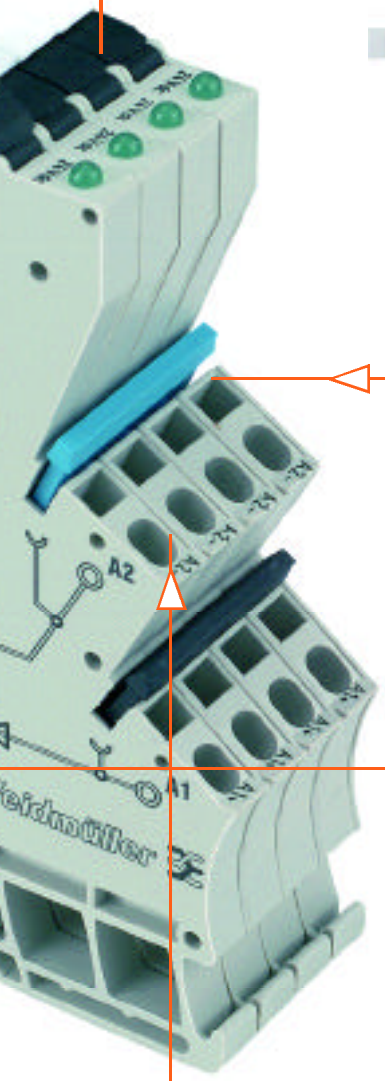
The innovative retaining and release mechanism safely secures the plugged Relay/Opto on the socket base. The release function allows the plugged relay to be reliably and easily removed from the socket base. In addition, the generous marking areas ensure the clearly visible marking of electrical equipment with WS markers.



Pluggable cross-connections

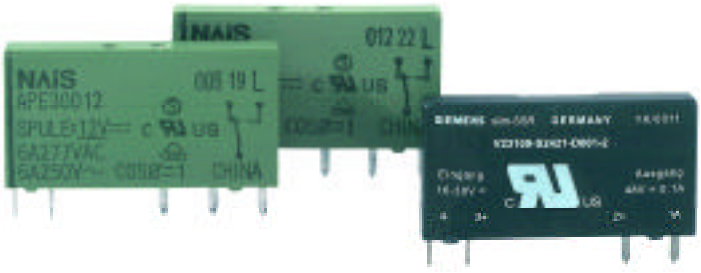
The pluggable cross-connections ZQV 4N are available in different pole numbers and colors. They enable the reliable cross-connection of the four potentials in the input and output reducing installation time by eliminating redundant wiring.





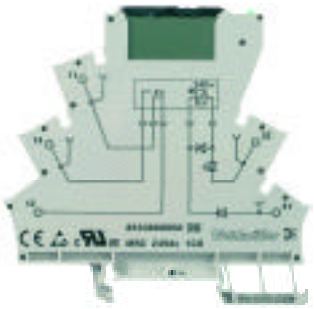
Relay and optocoupler modules

Pluggable relays and optocouplers make possible the selection of the module functions. For example, there are relays with AgSnO and gold contacts as well as optocouplers with different switching capacities available.



MICRORELAY MRS/MRZ

MRS 5 Vdc SPDT **MRS 12 Vdc SPDT**
MRZ 5 Vdc SPDT **MRZ 12 Vdc SPDT**

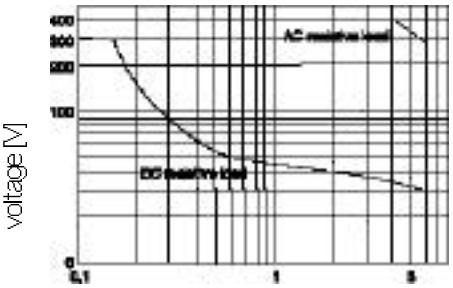




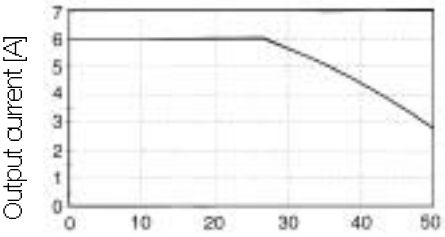
This module can be used as a universal interface between the control and the actuator, for switching low and average sized loads.

- Pluggable cross-connections in the inputs and outputs minimize wiring
- 6.1 mm wide
- Flexible usage thanks to design with screw and tension clamp technology

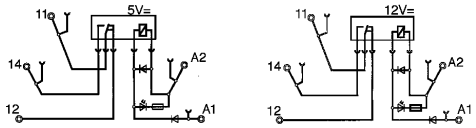
DC-load breaking capacity



Derating curve



Block diagram



Ordering data	Type	Part No.	Type	Part No.
for TS 35				
Screw clamp version	MRS 5 VDC 1CO SPDT	**8556080000**	MRS 12 VDC 1CO SPDT	**8556070000**
Tension clamp version	MRZ 5 VDC 1CO SPDT	**8556150000**	MRZ 12 VDC 1CO SPDT	**8556140000**

Technical data		
Input		
Input voltage	5 VDC ± 20% (4...6 V)	12 VDC ± 20% (9.6...14.4 V)
Input current ac at $V_{Nominal}$		
Input current dc at $V_{Nominal}$	38 .5 mAdc ±10%	17.2 mAdc ±10%
Input power	193 mW ±10%	210 mW ±10%
Operating point, (typ.)	3.2 V / 21.6 mA	6.4 V / 8.4 mA
Switch-off point (typ.)	1.6 V / 8 mA	2.5 V / 2.4 mA
Status indication	LED green	LED green
Response time at V_N (typ.)	6.2 ms	5.8 ms
Open time at V_N (typ.)	3.9 ms	6.9 ms
Relay coil voltage	5 V	12 V
Functionality		
Status indicator	yes	yes
reverse-connect protection	yes	yes
free-wheeling diode	yes	yes
Output	1 changeover contact (SPDT)	1 changeover contact (SPDT)
Switching voltage	250 VAC acc. to VDE	250 VAC acc. to VDE
	240 VAC acc. to UL/CSA	240 VAC acc. to UL/CSA
AC: continuous current/switching capacity (see derating curve)	max. 6 A / max. 1500 VA	max. 6 A / max. 1500 VA
Making current	max. 6 A	max. 6 A
DC: continuous current/switching capacity	see derating curve	see derating curve
Min. switching capacity	12 V /10 mA	12 V /10 mA
Contact material	AgSnO	AgSnO
Mechanical life	20 x 10^6 switching cycles	20 x 10^6 switching cycles
Max. switching frequency at nominal load	0.1 Hz	0.1 Hz
Ambient temperature	-25°C…+50°C	-25°C…+50°C
Storage temperature	-40°C…+60°C	-40°C…+60°C
Operating conditions	40°C / 93% rel. humidity, non-condensing	40°C / 93% rel. humidity, non-condensing
Approvals	CE UL	CE UL

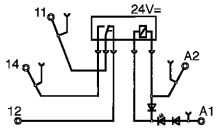
Insulation coordination/safe isolation acc. to EN 50178		
Rated voltage	300 V	300 V
Isolation voltage	4 kV (1.2 / 50 µs)	4 kV
Overvoltage category	III	III
Pollution degree	2	2
Isolation between input/output to mounting rail	4 kV_{eff} / 1 min	4 kV_{eff} / 1 min
Achieved clearance and creepage distance	≥ 5.5 mm	≥ 5.5 mm

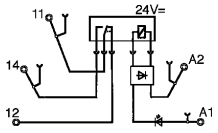
Relay couplers in terminal block format

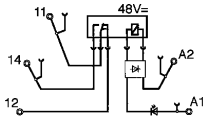
MRS 24 Vdc SPDT	MRS 24 Vac/dc SPDT	MRS 48 Vac/dc SPDT	MRS 60 Vdc SPDT	MRS 120 Vac/dc SPDT	MRS 230 Vac SPDT
MRZ 24 Vdc SPDT	MRZ 24 Vac/dc SPDT	MRZ 48 Vac/dc SPDT	MRZ 60 Vdc SPDT	MRZ 120 Vac/dc SPDT	MRZ 230 Vac SPDT

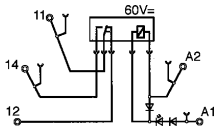


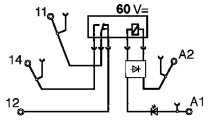


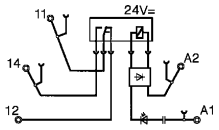






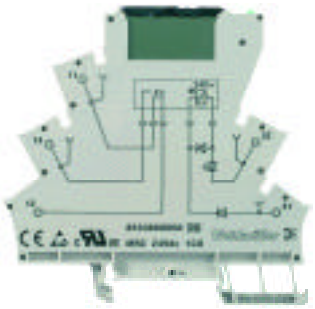






Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
MRS 24 VDC 1CO SPDT	**8533640000**	MRS 24 Vac/dc 1CO SPDT	**8556050000**	MRS 48 Vac/dc1CO SPDT	**8556040000**	MRS 60 VDC1CO SPDT	**8556060000**	MRS 120 Vac/dc 1CO SPDT	**8556030000**	MRS 230 VAC 1CO SPDT	**8556020000**
MRZ 24 VDC 1CO SPDT	**8533660000**	MRZ 24 Vac/dc 1CO SPDT	**8556120000**	MRZ 48 Vac/dc1CO SPDT	**8556110000**	MRZ 60 VDC1CO SPDT	**8556130000**	MRZ 120 Vac/dc 1CO SPDT	**8556100000**	MRZ 230 VAC 1CO SPDT	**8556090000**
24 VDC ± 20% (19.2...28.8 V)		24 Vac/dc ±10% (21.6...26.4 V)		48 Vac/dc ±10% (43.2...52.8 V)		60 VDC ± 20% (48...72 V)		120 Vac/dc +10% / -15% (102...132 V)		230 VAC ±10% (207...253 V)	
		11 mA ± 10 %		5 mA ± 20 %				3.5 mAac ±15 %		7.6 mA ±15%	
6.6 mAdc ±10%		6.4 mA ± 20 %		4 mA ± 20 %		3.3 mAdc ± 20 %					
160 mW ±10%		154 mW ±10 %		190 mW ± 20 %		200 mW ±10%		0.42 VA ±15 %		1.75 VA ±15 %	
15.4 V / 4 mA		15.8 V / 3.6 mA		29 V / 2.2 mA		35 V / 1.6 mA		71 V / 1.8 mA		103 V / 5 mA	
6.5 V / 1.2 mA		7 V / 1.3 mA		11 V / 1.3 mA		11 V / 0.6 mA		22 V / 0.5 mA		49 V / 2.5 mA	
LED green		LED green		LED green		LED green		LED green		LED green	
6.6 ms		7.3 ms		6.1 ms		5.9 ms		6.7 ms		13 ms	
5.8 ms		9 ms		5.8 ms		6.5 ms		8.1 ms		11 ms	
24 V		24 V		48 V		60 V		60 V		24 V	
yes		yes		yes		yes		yes		yes	
yes		yes		yes		yes		yes		–	
yes		yes		yes		yes		yes		–	
1 changeover contact (SPDT)		1 changeover contact (SPDT)		1 changeover contact (SPDT)		1 changeover contact (SPDT)		1 changeover contact (SPDT)		1 changeover contact (SPDT)	
250 VAC acc. to VDE		250 V ~ acc. to VDE		250 VAC acc. to VDE		250 VAC acc. to VDE		250 V ~ acc. to VDE		250 V ~ acc. to VDE	
240 VAC acc. to UL/CSA		240 V ~ acc. to UL/CSA		240 VAC acc. to UL/CSA		240 VAC acc. to UL/CSA		240 V ~ acc. to UL/CSA		240 V ~ acc. to UL/CSA	
max. 6 A / max. 1500 VA		Max. 6 A / max. 1500 VA		max. 6 A / max. 1500 VA		max. 6 A / max. 1500 VA		max. 6 A / max. 1500 VA		max. 6 A / max. 1500 VA	
max. 6 A		Max. 6 A		max. 6 A		max. 6 A		max. 6 A		max. 6 A	
see derating curve		see derating curve		see derating curve		see derating curve		see derating curve		see derating curve	
12 V /10 mA		12 V /10 mA		12 V /10 mA		12 V /10 mA		12 V /10 mA		12 V /10 mA	
AgSnO		AgSnO		AgSnO		AgSnO		AgSnO		AgSnO	
20 x 10^6 switching cycles		20 x 10^6 switching cycles		20 x 10^6 switching cycles		20 x 10^6 switching cycles		20 x 10^6 switching cycles		20 x 10^6 switching cycles	
0.1 Hz		0.1 Hz		0.1 Hz		0.1 Hz		0.1 Hz		0.1 Hz	
-25°C…+50°C		-25°C…+50°C		-25°C…+50°C		-25°C…+50°C		-25°C…+50°C		-25°C…+50°C	
-40°C…+60°C		-40°C…+60°C		-40°C…+60°C		-40°C…+60°C		-40°C…+60°C		-40°C…+60°C	
40°C / 93% rel. humidity, non-condensing		40°C / 93% rel. humidity, non-condensing		40°C / 93% rel. humidity, non-condensing		40°C / 93% rel. humidity, non-condensing		40°C / 93% rel. humidity, non-condensing		40°C / 93% rel. humidity, non-condensing	
CE cULus		CE cULus		CE cULus		CE cULus		CE cULus		CE cULus	
300 V		300 V		300 V		300 V		300 V		300 V	
4 kV		4 kV		4 kV		4 kV		4 kV		4 kV	
III		III		III		III		III		III	
2		2		2		2		2		2	
4 kV_{eff} / 1 min		4 kV_{eff} / 1 min		4 kV_{eff} / 1 min		4 kV_{eff} / 1 min		4 kV_{eff} / 1 min		4 kV_{eff} / 1 min	
≥ 5.5 mm		≥ 5.5 mm		≥ 5.5 mm		≥ 5.5 mm		≥ 5.5 mm		≥ 5.5 mm	

MICRORELAY MRS/MRZ



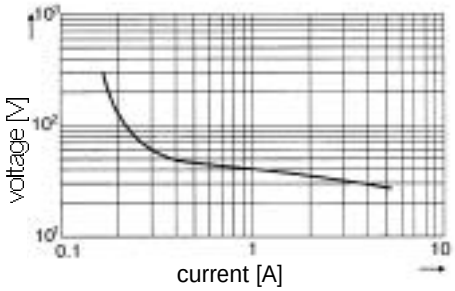
MRS 24 Vdc SPDT **MRS 230 Vdc SPDT**
MRZ 24 Vdc SPDT **MRZ 230 Vdc SPDT**
Gold Plated Contacts **Gold Plated Contacts**



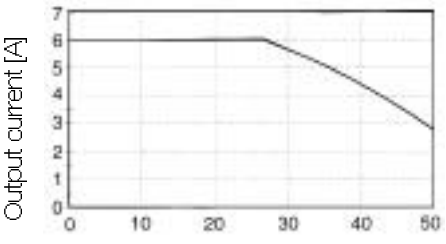
This module can be used as a universal interface between the control and the actuator, for switching low and average sized loads.

- Pluggable cross-connections in the inputs and outputs minimize wiring
- 6.1 mm wide
- Flexible usage thanks to design with screw and tension clamp technology
- **Gold-plated contacts**

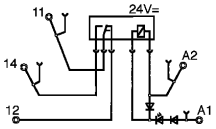
DC-load breaking capacity

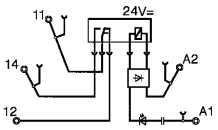


Derating curve



Block diagram





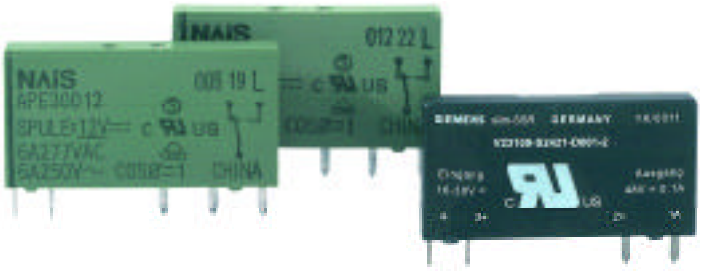
Ordering data	**Type**	**Part No.**	**Type**	**Part No.**
for TS 35				
Screw connection	MRS 24 Vdc SPDT	**8596060000**	MRS 230 Vac SPDT	**8596050000**
Tension clamp connection	MRZ 24 Vdc SPDT	**8596080000**	MRZ 230 Vac SPDT	**8596070000**

Technical data		
Input		
Input voltage	24 Vdc ± 20 % (19.2...28.8 V)	230 Vac ±10% (207...253 V)
Input voltage ac with $V_{Nominal}$		7.6 mA ±15%
Input voltage dc with $V_{Nominal}$	6.6 mAdc ±10 %	
Input power	160 mW ±10%	1.55 VA ±15 %
Making threshold , (typ.)	15.4 V / 4 mA	103 V / 5 mA
Cut-out threshold (typ.)	6.5 V / 1.2 mA	49 V / 2.5 mA
Status indicator	Green LED	Green LED
Reaction time at V_N (typ.)	6.6 ms	13 ms
Release at V_N (typ.)	5.8 ms	11 ms
Voltage of relay coil	24 V	24 V
Functionality		
Operating indication	yes	yes
Reverse polarity protection	yes	–
Free wheel diode	yes	–
Output	1 changeover contact (SPDT)	1 changeover contact (SPDT)
Switching voltage	250 Vac acc. to VDE	250 V ~ acc. to VDE
	240 Vac acc. to UL/CSA	240 V ~ acc. to UL/CSA
ac: continuous current/switching power (see derating diagram)	max. 6 A / max. 1500 VA	max. 6 A / max. 1500 VA
Switch-on current	max. 6 A	max. 6 A
dc: Continuous current/switching power	see limit diagram	see limit diagram
Min. braking capacity (reference value)	12 V /10 mA [1)]	12 V /10 mA [1)]
Contact material	AgSnO 5µm Au	AgSnO 5µm Au
Mechanical service life	20 x 10^6 switching operations	20 x 10^6 switching operations
Max. switching frequency at nominal voltage	0.1 Hz	0.1 Hz
Ambient temperature	-25 °C…+50 °C	-25 °C…+50 °C
Storage temperature	-40 °C…+60 °C	-40 °C…+60 °C
Climate	40 °C / 93 % rel. humidity, non-condensing	40 °C / 93 % rel. humidity, non-condensing
Approvals	CE UL	CE UL

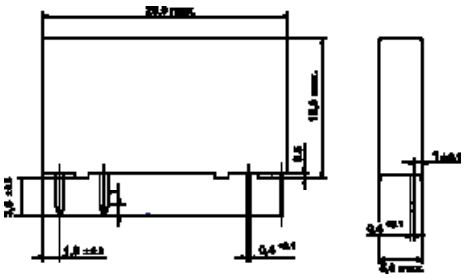
Insulation coordination acc. to EN 50178		
Rated voltage	300 V	300 V
Isolation voltage	4 kV	4 kV
Overvoltage category	III	III
Pollution severity	2	2
Insulation coord.- and voltage proof, input/output mounting rail	4 kV_{eff} / 1 min	4 kV_{eff} / 1 min
Achieved clearances and creepage distances	≥ 5.5 mm	≥ 5.5 mm

[1)] recommended load: µW to 0.25 W (depending from the load composition) at 2.5 W the gold plate will last for app. 20,000 switching operations

Pluggable Relays

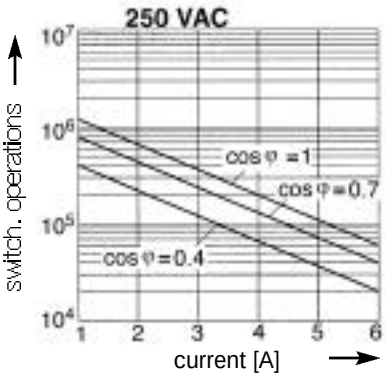


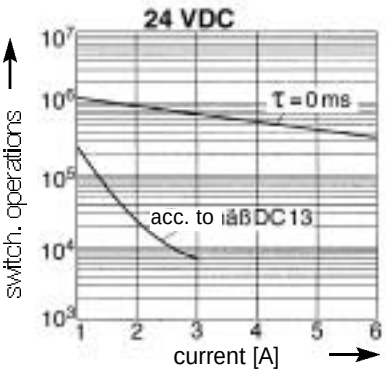
Dimensions



Contact service life

Material $AgSnO_2$





Pluggable relay		Type **NAIS APE...**	Part No.
Coil voltage 5 V, 1 changeover contact	(SPDT)	... 30005V	**4061580000**
Coil voltage 12 V, 1 changeover contact	(SPDT)	... 30012V	**4061610000**
Coil voltage 24 V, 1 changeover contact	(SPDT)	... 30024V	**4060120000**
Coil voltage 48 V, 1 changeover contact	(SPDT)	... 30048V	**4061620000**
Coil voltage 60 V, 1 changeover contact	(SPDT)	... 30060V	**4061630000**
Coil voltage 24 V, 1 changeover contact, 5 µAU	(SPDT)	... 30124V	**4061590000**
Coil voltage 60 V, 1 changeover contact, 5 µAU	(SPDT)	... 30160V	**4061600000**

Technical data (of relay manufacturer)		
Contact number and type		1 changeover contact (SPDT)
Contact version		Single contact
Switching current		6 A
Switching voltage / max. Switching voltage		300 Vdc / 400 Vac
Braking capacity		1500 VA
Contact material / recommended min. load	$AgSnO_2$	12 V, 100 mA
	$AgSnO_2$ 5µ Au	12 V, 10 mA [1]
Typ. bounce time NO contact		1 ms
Typ. bounce time normally closed contact		5 ms

Miscellaneous data	
Flammability class UL	V-0
Ambient temperature	-40 ... +85 °C
Max. switching operations with rated load / without load	6/1200 switching operations per minute
Response / drop out time	5 / 2.5 ms
Bounce time NO contact / normally closed contact	1.5 / 5 ms
Protection class Housing	IP 67
For further data see	www.matsushita.de

[1] recommended load: µW to 0.25 W (depending from the load composition) at 2.5 W the gold plate will last for app. 20,000 switching operations

Opto- couplers in terminal block format

MICROOPTO

MOS/MOZ

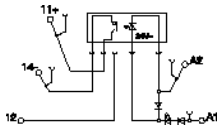
MOS 24 Vdc
MOZ 24 Vdc

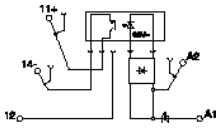
MOS 120 Vac/dc
MOZ 120 Vac/dc

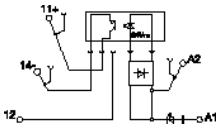


MOS 230 Vac
MOZ 230 Vac

Block diagram







Ordering data	Type	Part No.	Type	Part No.	Type	Part No.
Screw clamp version	MOS 24 Vdc/24 Vdc 0.1 A	**8607340000**	MOS 120 Vac/dc/24 Vdc 0.1 A	**8607690000**	MOS 230 Vac/24 Vdc 0.1 A	**8607710000**
Tension clamp version	MOZ 24 Vdc/24 Vdc 0.1 A	**8607360000**	MOZ 120 Vac/dc/24 Vdc 0.1 A	**8607730000**	MOZ 230 Vac/24 Vdc 0.1 A	**8607750000**

Technical data			
Input			
Input voltage	24 Vdc ± 20%	120 Vac/dc + 10/-15%	230 Vac ± 10%
Input current dc	5.7 mA ± 10%	2.8 mAdc (2.5 mA... 3.1 mA)	
Input current ac		3.4 mAac (2.8 mA... 4 mA)	7.4 mA + 10%
Input power dc	140 mW ±10%	340 mW ±20%	
Input power ac		0.4 VA + 20%	1.7 VA + 20%
Switch- on point dc	typ. 15 V/3.5 mA	typ. 67 V/0.9 mA	
Switch- on point ac		typ. 69 V/1.4 mA	typ. 78 V/3.1 mA
Switch- off point dc	typ. 15 V/3.5 mA	typ. 63 V/0.76 mA	
Switch- off point ac		typ. 64 V/0.86 mA	typ. 77 V/3.0 mA
Voltage of Solid State Relays	24 V	60 V	24 V
Functionality			
Status indicator	LED green	LED green	LED green
Reverse-connect protection	Diode	Rectifier	Rectifier
Free-wheeling diode	yes	Rectifier	Rectifier
Output	bi-polar Transistor	bi-polar Transistor	bi-polar Transistor
Switching voltage	3 V...48 Vdc	3 V...48 Vdc	3 V...48 Vdc
Continuous current/ switching capacity	max. 0.1 A	max. 0.1 A	max. 0.1 A
On state voltage drop	max. 1V	max. 1V	max. 1V
Response time	<35 us	<6.5 ms	<6.5 ms
Open time	<355 us	<10 ms	<10 ms
Max. switching frequency at nom. load	300 Hz	10 Hz	10 Hz

Insulation coordination / safe isolation			
acc to EN 50178, 04/98			
Rated voltage	300 V	300 V	300 V
Isolation voltage	4 kV	4 kV	4 kV
Overvoltage category	III	III	III
Pollution degree	2	2	2
Voltage proof I/ O to mounting rail	≥ 5.5mm	≥ 5.5mm	≥ 5.5mm
Achieved clearence and creepage distance	2.5 kV_{eff}	2.5 kV_{eff}	2.5 kV_{eff}
General data			
Ambient temperature	-25...+50ºC	-25...+50ºC	-25...+50ºC
Storage temperature	-40ºC...+60ºC	-40ºC...+60ºC	-40ºC...+60ºC
Operation conditions	40°C / 93% rel. humidity, non-condensing	40°C / 93% rel. humidity, non-condensing	40°C / 93% rel. humidity, non-condensing
Approvals	CE	CE	CE

*TU 20 ºC

Opto- couplers in terminal block format

MICROOPTO

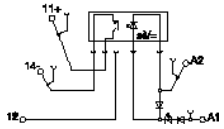
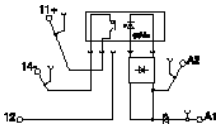
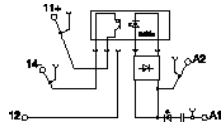
MOS/MOZ

MOS 24 Vdc
MOZ 24 Vdc

MOS 120 Vac/dc
MOZ 120 Vac/dc



MOS 230 Vac
MOZ 230 Vac

Block diagram			
			

Ordering data	**Type**	**Part No.**	**Type**	**Part No.**	**Type**	**Part No.**
Screw clamp version	MOS 24 Vdc/24 Vdc 2 A	**8607350000**	MOS 120 Vac/dc/24 Vdc 2 A	**8607700000**	MOS 230 Vac/24 Vdc 2 A	**8607720000**
Tension clamp version	MOZ 24 Vdc/24 Vdc 2 A	**8607370000**	MOZ 120 Vac/dc/24 Vdc 2 A	**8607740000**	MOZ 230 Vac/24 Vdc 2 A	**8607760000**

Technical data*			
Input			
Input voltage	24 Vdc ± 20%	120 Vac/dc + 10/-15%	230 Vac ± 10%
Input current dc	5.7 mA ± 10%	2.8 mAdc (2.5mA...3.1mA)	
Input current ac		3.4 mAac (2.8mA...4mA)	7.4 mA + 10%
Input power dc	140 mW ±10%	340 mW ± 20%	
Input power ac		0.4 VA+ 20%	1.7 VA +20%
Switch- on point dc	typ. 15 V/3.5 mA	typ. 67V/0.9mA	
Switch- on point ac		typ. 69V/1.4mA	typ. 130 V/4.9 mA
Switch- off point dc	typ. 15 V/3.5 mA	typ. 63V/0.76mA	
Switch- off point ac		typ. 64V/0.86mA	typ. 126 V/4.8 mA
Voltage of Solid State Relays	24 V	60 V	24 V
Functionality			
Status indicator	LED green	LED green	LED green
Reverse-connect protection	Diode	Rectifier	Rectifier
Free-wheeling diode	yes	Rectifier	Rectifier
Output	MOS-FET	MOS-FET	MOS-FET
Switching voltage	3 V...33 Vdc	3 V...33 Vdc	3 V...33 Vdc
continuous current/ switching capacity	max. 2 A	max. 2 A	max. 2 A
Switch-on current	15 A (10ms)	15 A (10ms)	15 A (10ms)
On state voltage drop	max. 120 mV	max. 120 mV	max. 120 mV
Response time	<55 us	<6.5 ms	<6.5 ms
Open time	<1.2 ms	<10 ms	<10 ms
Max. switching frequency at nom. load	300 Hz	10 Hz	10 Hz

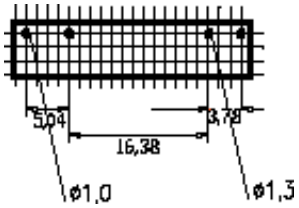
Insulation coordination/ safe isolation			
acc to EN 50178, 04/98			
Rated voltage	300 V	300 V	300 V
Isolation voltage	4 kV	4 kV	4 kV
Overvoltage category	III	III	III
Pollution degree	2	2	2
Voltage proof I/O to mounting rail	≥ 5.5mm	≥ 5.5mm	≥ 5.5mm
Achieved clearence and creepage distance	2.5 kV_{eff}	2.5 kV_{eff}	2.5 kV_{eff}
General data			
Ambient temperature	-25...+50ºC	-25...+50ºC	-25...+50ºC
Storage temperature	-40ºC...+60ºC	-40ºC...+60ºC	-40ºC...+60ºC
Operation conditions	40°C / 93% rel. humidity, non-condensing	40°C / 93% rel. humidity, non-condensing	40°C / 93% rel. humidity, non-condensing
Approvals	CE cULus	CE cULus	CE cULus

*TU 20 ºC

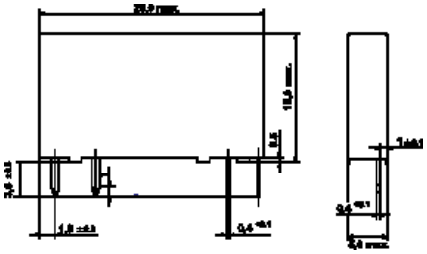
Plugable Solid-State-Relay



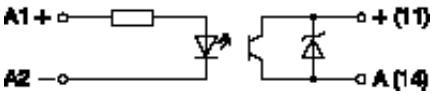
Print figure

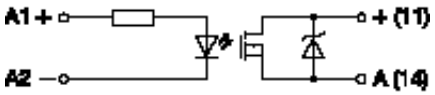


Dimensions



Schematic circuit diagram



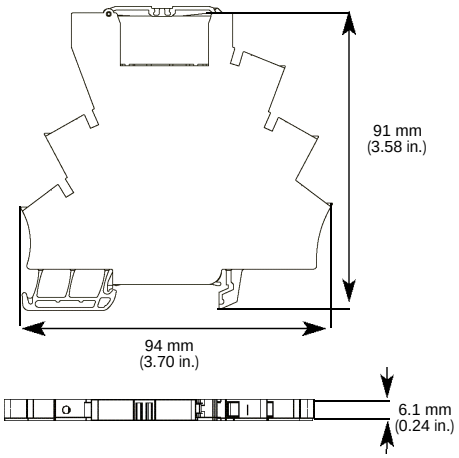


Ordering data	Type	Part No.	Type	Part No.	Type	Part No.	Type	Part No.
SSS Relays ...	...24V / 24V 0.1Adc	**4061180000**	...60V / 24V 0.1Adc	**4061230000**	...24V / 24V 2Adc	**4061190000**	...60V / 24V 2Adc	**4061200000**
Technical data*								
Input								
Minimum Control Voltage	16Vdc		52 Vdc		18 Vdc		35 Vdc	
Nominal Control Volatge	**24Vdc**		**60 Vdc**		**24 Vdc**		**60 Vdc**	
Maximum Control Voltage	30 Vdc		72 Vdc		30 Vdc		72 Vdc	
Control Current @ U_{IN}=24V	7 mA ± 10%		2.8 mA ± 10%		7 mA ± 10%		3 mA ± 10%	
Release Voltage	10 Vdc		40 Vdc		10 Vdc		20 Vdc	
Control Circuit Resistance	ca. 4 kOhm		ca. 20 kOhm		ca. 3.2 kOhm		ca. 16 kOhm	
Output	Bipolar Transistor		Bipolar Transistor		MOS-FET		MOS-FET	
Load voltage	3...48 Vdc		3...48 Vdc		3...33 Vdc		3...33 Vdc	
Switching/continuous current	**100 mAdc**		**100 mAdc**		**2 Adc**		**2 Adc**	
On State Voltage Drop	<1 Vdc		<1 Vdc		<120 mVdc		<120 mVdc	
Isolation								
Dielectric Strength between Input / Output	2.5 kV		2.5 kV		2.5 kV		2.5 kV	
Further technical data								
Operating temperature range	-20°C…+60°C		-20°C…+60°C		-20°C…+60°C		-20°C…+60°C	
Storage Temperature	-40°C…+70°C		-40°C…+70°C		-40°C…+70°C		-40°C…+70°C	
Weight	3.65 g		3.65 g		3.65 g		3.65 g	
Approvals								

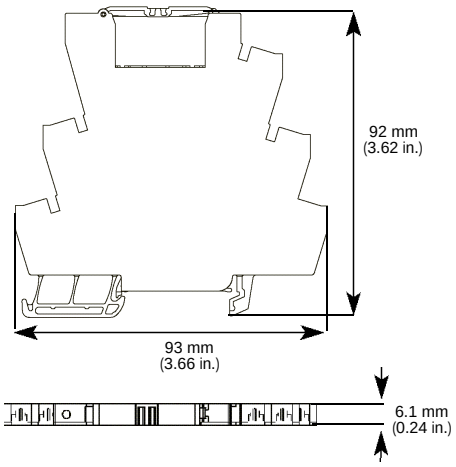
*TU 20°C

Accessories / General datas

Tension clamp version MRZ



Screw version MRS



General technical data		Tension clamp version	Screw clamp version
Crimpable wire:			
Single-core H07V-U	mm^2 /AWG	0.5…2.5 / 20...14 AWG	0.5…4 / 20...12 AWG
Flexible H07V-K	mm^2 /AWG	0.5…2.5 / 20...14 AWG	0.5…2.5 / 20...14 AWG
„f“ with ferrules according to DIN 46 228/1*	mm^2 /AWG	0.5…2.5 / 20...16 AWG	0.5…1.5 / 20...16 AWG
„f“ with ferrules with plastic colar*	mm^2 /AWG	0.5…2.5 / 20...16 AWG	0.5…1.5 / 20...16 AWG
Max. clamp. range in mm2 plug gauge acc. to IEC 60 947-1 Size		0.13…2.5 A 2	0.13…4 A 3
Basic torque		-	0.6 Nm
Continuous current of cross-connection 2-pole	A	10	10
Continuous current of cross-connection multi-pole	A	10	10
Insulation stripping length	mm (in.)	10 (0.4)	7 (0.28)
Protection class		IP 20	IP 20
Housing material		Wemid	Wemid
Flammability class according to UL 94		V0	V0
Nominal current		6 A	6 A
Nominal voltage		250 V	250 V

Cross-connection		Type		Part No.	Type		Part No.
Pluggable cross-connection							
ZQV	Yellow	ZQV 4N / 2	Yellow	**1758250000**	ZQV 4N / 2	Yellow	**1758250000**
		ZQV 4N / 3	Yellow	**1762630000**	ZQV 4N / 3	Yellow	**1762630000**
		ZQV 4N / 4	Yellow	**1762620000**	ZQV 4N / 4	Yellow	**1762620000**
		ZQV 4N / 10	Yellow	**1758260000**	ZQV 4N / 10	Yellow	**1758260000**
		ZQV 4N / 41	Yellow	**1758270000**	ZQV 4N / 41	Yellow	**1758270000**
	Red	ZQV 4N / 2	Red	**1793950000**	ZQV 4N / 2	Red	**1793950000**
		ZQV 4N / 3	Red	**1793980000**	ZQV 4N / 3	Red	**1793980000**
		ZQV 4N / 4	Red	**1794010000**	ZQV 4N / 4	Red	**1794010000**
		ZQV 4N / 10	Red	**1794040000**	ZQV 4N / 10	Red	**1794040000**
		ZQV 4N / 41	Red	**1794070000**	ZQV 4N / 41	Red	**1794070000**
	Blue	ZQV 4N / 2	Blue	**1793960000**	ZQV 4N / 2	Blue	**1793960000**
		ZQV 4N / 3	Blue	**1793990000**	ZQV 4N / 3	Blue	**1793990000**
		ZQV 4N / 4	Blue	**1794020000**	ZQV 4N / 4	Blue	**1794020000**
		ZQV 4N / 10	Blue	**1794050000**	ZQV 4N / 10	Blue	**1794050000**
		ZQV 4N / 41	Blue	**1794080000**	ZQV 4N / 41	Blue	**1794080000**
	Black	ZQV 4N / 2	Black	**1793970000**	ZQV 4N / 2	Black	**1793970000**
		ZQV 4N / 3	Black	**1794000000**	ZQV 4N / 3	Black	**1794000000**
		ZQV 4N / 4	Black	**1794030000**	ZQV 4N / 4	Black	**1794030000**
		ZQV 4N / 10	Black	**1794060000**	ZQV 4N / 10	Black	**1794060000**
		ZQV 4N / 41	Black	**1794090000**	ZQV 4N / 41	Black	**1794090000**

Marking tags	Type	Part No.	Type	Part No.
12 x 6 mm	WS 10/6	**1060960000**	WS 10/6	**1060960000**
	WS 12/6	**1061160000**	WS 12/6	**1061160000**

Screwdriver	Type	Part No.	Type	Part No.
	SD 0.6 x 3.5 x 100	**9008330000**	SD 0.6 x 3.5 x 100	**9008330000**

Advantages of the PLUGSERIES

The concept

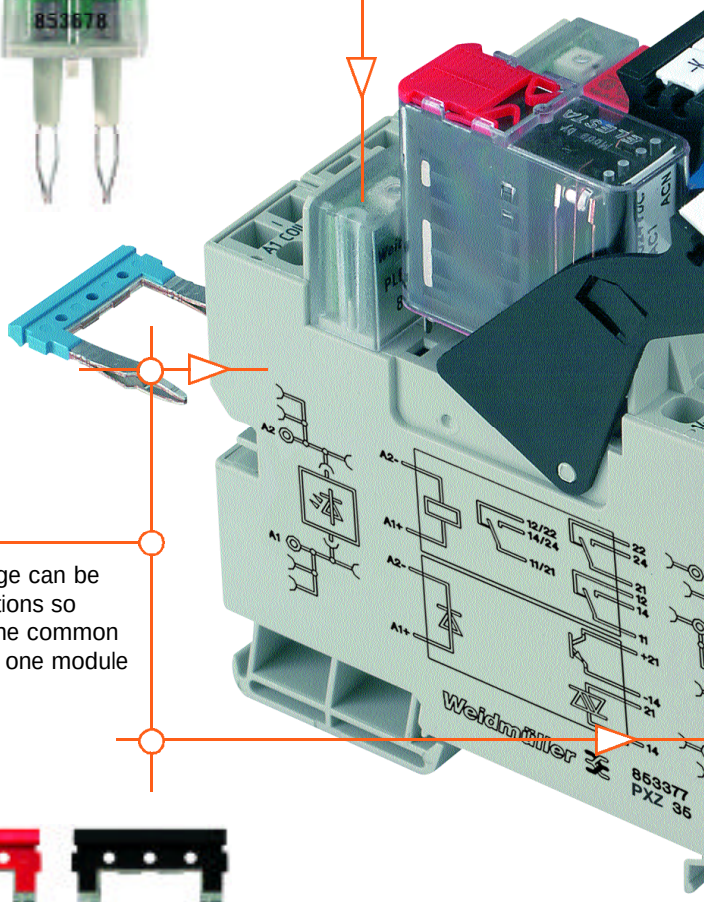
PLUGSERIES is a product range for digital switching applications in industrial / process and building automation.
The base is a universal socket that is snapped onto mounting rails. Electromechanical and solid-state relays from different manufacturers can be combined to make complete functional units. The **PLUGRELAY** can switch up to 16A with resistive loads. The solid-state relays **PLUGOPTO** are suitable for AC and DC applications.

- Easy to plug in relays/optocouplers
- Choice of connection technology: screw or tension clamp
- Robustly designed retaining and release clip
- Relays with Single Pole Double Throw (SPDT) or Double Pole Double Throw (DPDT) contacts
- Solid-state relays for AC and DC applications
- Cross-connections reduce wiring
- Cost saving modular design
- Service-friendly modular system
- Pluggable LED indicators with free-wheeling diode
- Optional RC-combination to reduce erroneous relay activation

Status indicators

Weidmüller gives you the option of simply plugging an LED indicator with free-wheeling diode or RC combination on to the relay socket.





Cross-connection

Housings from the same range can be connected via cross-connections so that the input potential and the common contact can be bridged from one module to another.



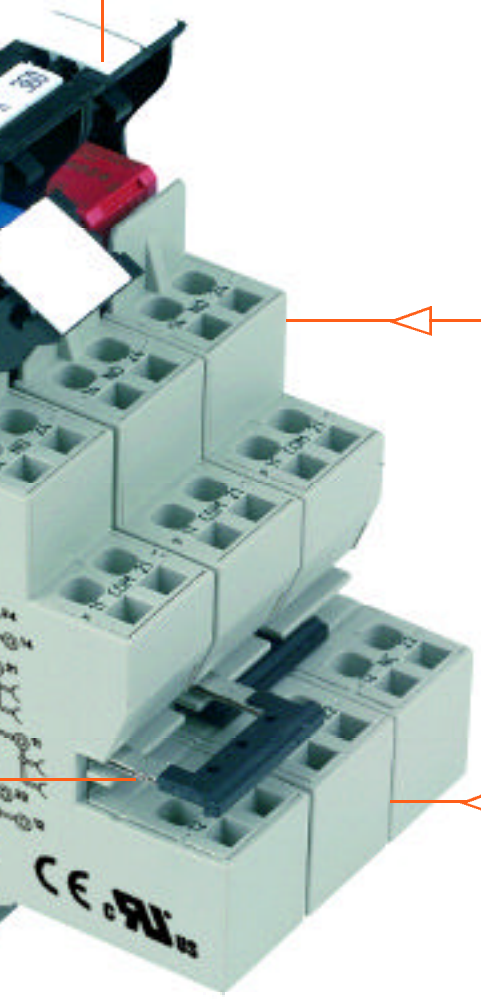
Contact material

All around flexibility is achieved by the choice of materials for the contacts. The RT relay used in the relay couplers of the **PLUGSERIES** PRS/PRZ are fitted with gold-flashed AgNi contacts.
Relays with hard gold-plated contacts are optionally available for switching low power ratings.

Securely mounted

The retaining and release clip guarantees that the relay is securely mounted. It ensures that the relay can be quickly ejected when servicing is required. It is universally suitable for relays with standardized heights of 15.7 mm (0.63 in.) or 25.5 mm (1.02 in.).



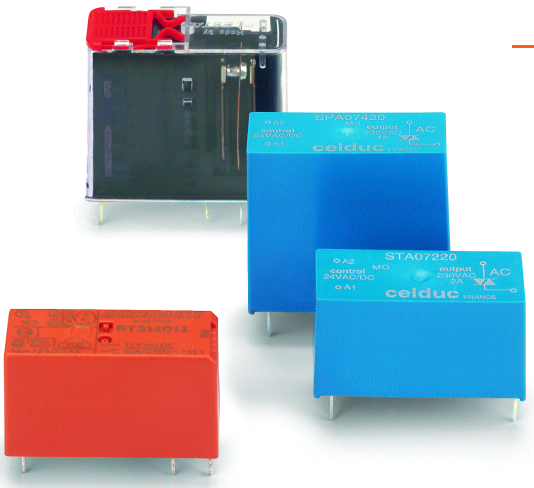


Connection

This series provides the greatest possible flexibility when it comes to wiring. The relay sockets are the heart of the range of relay couplers and optocouplers. The modules are optionally available with screw or tension clamp technology.

Modular principle

The new **PLUGSERIES** products are easy to service. Industry standard types of relays can be plugged in. Retaining and release levers guarantee that the pluggable relay/optocoupler modules are secured in place. LED indicators with free-wheeling diodes can be plugged into the module base also. The **PLUGSERIES** offers economical pricing and fully developed product technology.

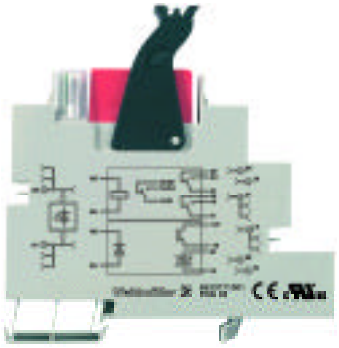




Optoelectronic switching < 4 kV eff >

The **PLUGSERIES** offers solid-state relays for AC and DC applications.
Currents up to 5 A at 24 VDC and
4 A at 230 VAC can be safely switched.

Relay coupler PLUGRELAY



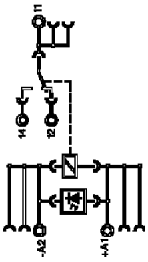
PRZ/PRS



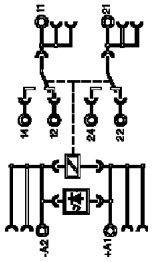
PRZ/PRS



PRS/PRZ xxx SPDT



PRS/PRZ xxx 2CO



- Modular system comprising:
  - Relay socket for mounting rails
  - LED indicator unit / RC combination
  - retaining clip
  - pluggable relay
  - marker
- Independent connection technology: screw or tension clamp technology
- Compatible with low power relays type RT / Standard with 1 or 2 CO contacts
- Coil and contact cross-connectable with cross-connection type ZQV 2.5 N
- Available as complete module or as spare parts

DC-Version

Type/Version	Part No.
Screw clamp version	
PRS 12 VDC LD 1 CO SPDT	**8536470000**
PRS 12 VDC LD 2 CO DPDT	**8536500000**
PRS 24 VDC LD 1 CO SPDT	**8530620000**
PRS 24 VDC LD 2 CO DPDT	**8530630000**
PRS 115 VDC LD 1 CO SPDT	**8536510000**
PRS 115 VDC LD 2 CO DPDT	**8536520000**
PRS 24 VDC LD 2 CO AU DPDT	**8596000000**
with hard gold-plated relay contacts:	
PRS 24 VDC LD 2 CO AU DPDT	**8561760000**
Tension clamp version	
PRZ 12 VDC LD 1 CO SPDT	**8536570000**
PRZ 12 VDC LD 2 CO DPDT	**8536590000**
PRZ 24 VDC LD 1 CO SPDT	**8530690000**
PRZ 24 VDC LD 2 CO DPDT	**8530700000**
PRZ 115 VDC LD 1 CO SPDT	**8536610000**
PRZ 115 VDC LD 2 CO DPDT	**8536630000**
with hard gold-plated relay contacts:	
PRZ 24 VDC LD 2 CO AU DPDT	**8552440000**

Other variants on request

Technical data	
Input voltage	12 VDC...24 VDC...115 VDC
Rated power consumption, typ.	400 mW
Status indication	plug-in LED housings LED green
Output	**SPDT/DPDT contacts**
Contact version	1 CO / 2 CO
Output voltage max.	250 VAC/DC
Switching current	16 A / 2 x 8 A
Switching capacity	4 kVA/ 2 x2 kVA
Mechanical operation life	30 x 10^6

Input/output	
Clearance and creepage path	> 8 mm
Safety separation	DIN VDE 0106 T.101
Electrical strength in-/output	> 4 kV eff
Insulation coordination acc. to EN 50178	III / 2
Further technical data	
Ambient temperature	-40°C...+50°C
Ingress Protection	IP 20
Rated connection	0.5...2.5 mm² (22...14 AWG)
Compatibility UL 94	V0
Relay type	Schrack RT1/RT2
Dimensions W/H/L mm (in.)	15.2/91/85 (0.60/3.58/3.74)
Approvals	CE, UL
Rail mounted	TS 35
Accessories	
Cross-connection	
2-pole black (ZQV 2.5N/4-2 SW)	**1784270000**
2-pole red (ZQV 2.5N/4-2 RT)	**1784280000**
2-pole blue (ZQV 2.5N/4-2 BL)	**1784290000**
Marking tags	
WS 10/5	**1635010000**
WS 15/5	**1609890000**

AC-Version

Type/Version	Part No.
Screw clamp version	
PRS 24 VAC LD 1 CO SPDT	**8536530000**
PRS 24 VAC LD 2 CO DPDT	**8536560000**
PRS 120 VAC LD 1 CO SPDT	**8530640000**
PRS 120 VAC LD 2 CO DPDT	**8530660000**
PRS 230 VAC LD 1 CO SPDT	**8530670000**
PRS 230 VAC LD 2 CO DPDT	**8530680000**
with hard gold-plated relay contacts:	
PRS 230 VAC LD 2 CO AU DPDT	**8575960000**
PRS 120 VAC LD 2 CO AU DPDT	**8595990000**
Tension clamp version	
PRZ 24 VAC LD 1 CO SPDT	**8536650000**
PRZ 24 VAC LD 2 CO DPDT	**8536680000**
PRZ 120 VAC LD 1 CO SPDT	**8530710000**
PRZ 120 VAC LD 2 CO DPDT	**8530720000**
PRZ 230 VAC LD 1 CO SPDT	**8530730000**
PRZ 230 VAC LD 2 CO DPDT	**8530740000**
with hard gold-plated relay contacts:	
PRZ 120 VAC LD 2 CO AU DPDT	**8575940000**
PRZ 230 VAC LD 2 CO AU DPDT	**8575950000**

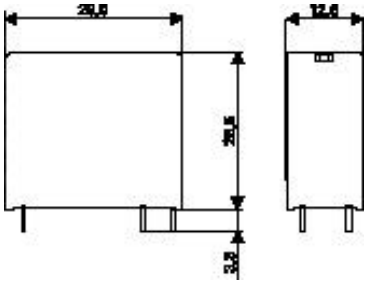
Other variants on request

Technical data	
Input voltage	24 VAC...120 VAC...230 VAC
Rated power consumption, typ.	760 VA
Status indication	plug-in LED housings, LED green
Output	**SPDT/DPDT contacts**
Contact version	1 CO / 2 CO
Output voltage max.	250 VAC/DC
Switching current	16 A / 2 x 8 A
Switching capacity	4kVA / 2 x 2 kVA
Mechanical operation life	5 x 10^6

Input/output	
Clearance and creepage path	> 8 mm
Safety separation	DIN VDE 0106 T.101
Electrical strength in-/output	> 4 kV eff
Insulation coordination acc. to EN 50178	III / 2
Further technical data	
Ambient temperature	-40°C...+50°C
Ingress protection	IP 20
Rated connection	0.5...2.5 mm² (22...14 AWG)
Compatibility UL 94	V0
Relay type	Schrack RT1/RT2
Dimensions W/H/L mm (in.)	15.2/91/85 (0.60/3.58/3.74)
Approvals	CE, UL
Rail mounted	TS 35
Accessories	
Cross-connection	
2-pole black (ZQV 2.5N/4-2 SW)	**1784270000**
2-pole red (ZQV 2.5N/4-2 RT)	**1784280000**
2-pole blue (ZQV 2.5N/4-2 BL)	**1784290000**
Marking tags	
WS 10/5	**1635010000**
WS 15/5	**1609890000**

Accessories
Pluggable relay types

Dimensions for RP 3SL



RP 3SL
Relays for high inrush current

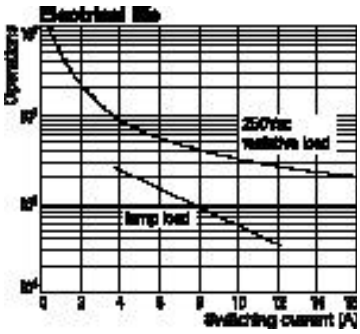


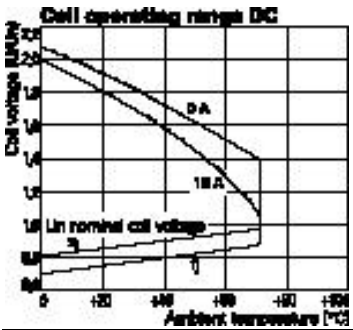
ELESTA SGR
Relays with test button



Pluggable relay		Type **Schrack RP 3SL**	**Part No.**	Type **ELESTA SGR**	**Part No.**
24 Vdc 1 changeover contact (SPDT) with test button				SGR 662 24 Vdc T	**8550510000**
24 Vdc 2 changeover contacts with test button				SGR 282 24 Vdc T	**8550520000**
24 Vdc 1 normally-open contact		RP3SL 24 Vdc 1NO	**8588510000**		
Technical data					
Contact number and type		1 normally-open contact		2 changeover contacts with test button	
Contact material		$AgSnO_2$		AgCuNi	
Switching current		25 A		16 A 1Co/2 x 8 A 2Co	
Peak inrush current		120 A / 20 ms			
Switching voltage		250 V		250 Vac	
Breaking capacity		4 kVA		4 kVA	
Min. switching current / breaking capacity				10 mA /100 mW	
Rated consumption		500 mW		500 mW	
Dielectric strength coil / contact		4 kV		5 kV	
Response / drop out time:	DC coil	typ. 8/2 ms		typ. 10/3 ms	
Bounce time NO contact/NC contact		typ. 2 ms		typ. 0.5/5 ms	
Mechanical service life:	DC coil	30 x 10^6 switching operations		> 30 x 10^6 switching operations	
Miscellaneous data					
Protection class		IP 40		IP 40	
Flammability class UL				V-1	
Ambient temperature	DC coil	-40°C...+70°C		-25°C...+70°C	
Weight		18 g		20 g	
Approvals		VDE		VDE	

Power relay RP 3SL

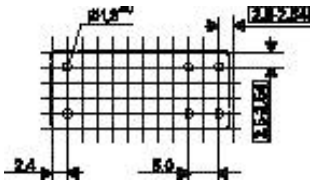




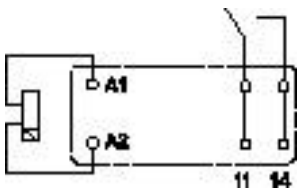
Contact service life

Type	Load	switch. oper.	Regulation
RP3SL	12 A, 250 V~, cosϕ=1	$3x10^5$	
RP3SL	TV 8	$25x10^3$	UL 508
RP3SL	2500 W, 230 V~, halogene lamps	$>10^4$	
RP3SL	1000 W, 250 V~, glow lamps	$2.3x10^5$	
RP3SL	3000 W, 250 V~, glow lamps	$3.6x10^4$	
RP3SL	1500 VA, fluorescent tubes 163 µF	10^4	

Print figure / Relay type RP 3SL

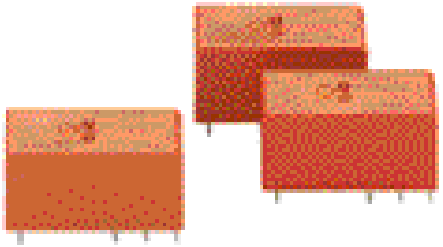


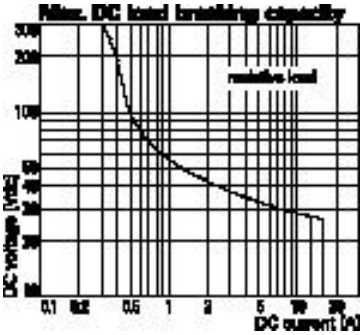
Circuit diagram / Relay type RP 3SL

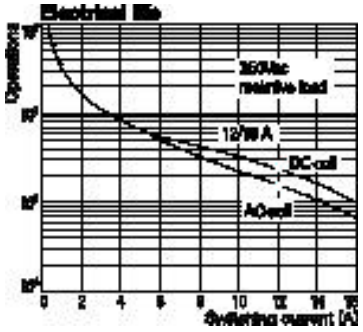


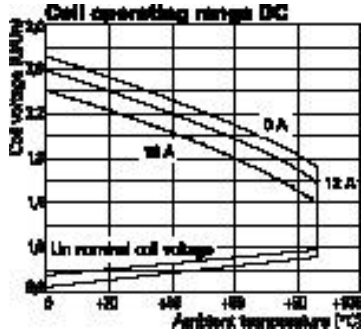
Accessories
Pluggable relay types

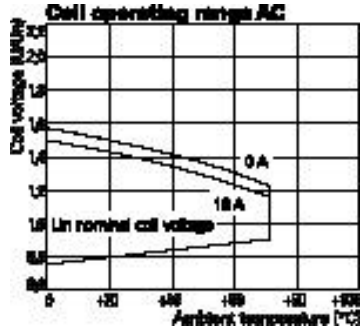
SCHRACK RT1
1 changeover contact (SPDT)



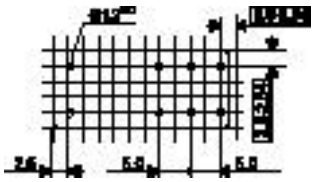




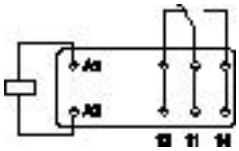




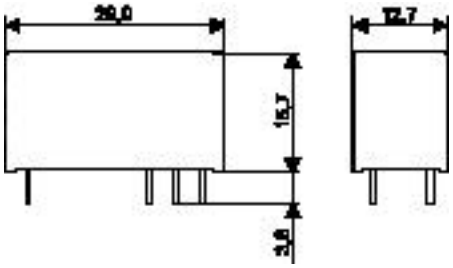
Print figure



circuit diagram



Dimensions



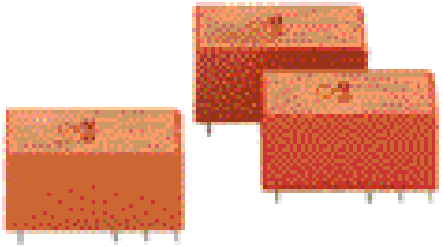
Pluggable relay	Type **Schrack RT**	**Part No.**
12 Vdc 1 changeover contact (SPDT)	RT 314012	**4058470000**
24 Vdc 1 changeover contact (SPDT)	RT 314024	**4058480000**
24 Vdc 1 changeover contact (SPDT) AU	RT 315024	**4058490000**
48 Vdc 1 changeover contact (SPDT)	RT 314048	**4058740000**
110 Vdc 1 changeover contact (SPDT)	RT 314110	**4058500000**
110 Vdc 1 changeover contact (SPDT) AU	RT 315110	**4065800000**
24 Vac 1 changeover contact (SPDT)	RT 315524	**4058510000**
115 Vac 1 changeover contact (SPDT)	RT 314615	**4058520000**
115 Vac 1 changeover contact (SPDT) AU	RT 315615	**4058530000**
230 Vac 1 changeover contact (SPDT)	RT 314730	**4058540000**
230 Vac 1 changeover contact (SPDT) AU	RT 315730	**4058550000**

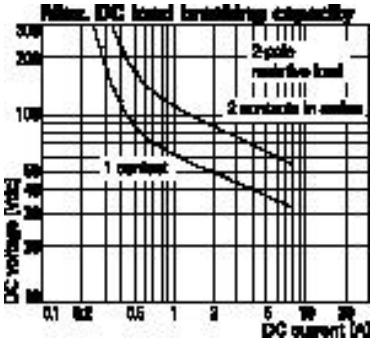
Technical data		
Contact number and type		1 changeover contact (SPDT)
Contact material		AgNi 90/10, AgNi 0.15 htv
Switching current		16 A 1CO (SPDT)
Switching voltage		250 V ac
Breaking capacity		4 kVA
Min. switching current / breaking capacity		10 mA /100 mW
Min. breaking capacity AU contact		40 µW
Rated consumption		400 mW dc/0.75 VA ac
Dielectric strength coil / contact		5 kV
Response / drop out time:	DC coil	typ. 7/3 ms
	AC coil	9/45 ms
Bounce time NO contact/NC contact		typ. 1/3 ms
Mechanical service life:	DC coil	> 30 x 10^6 switching operations
	AC coil	> 10 x 10^6 switching operations
Breaking capacity	1-pole DC 13	1.25A, L/R = 80 ms 2.3 x 10^5
	2-pole DC 13	1.25A, L/R = 80 ms 2.8 x 10^5
	2-pole AC 15	1.2A, cosL/R = 0.3 6050x

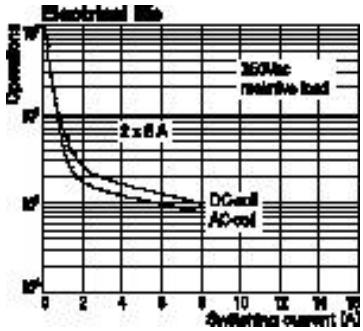
Miscellaneous data		
Protection class		IP 40
Flammability class	UL	V-0
Ambient temperature	DC coil	-40°C...+85°C
	AC coil	-40°C...+70°C
Weight		14 g
Approvals		CE cULus

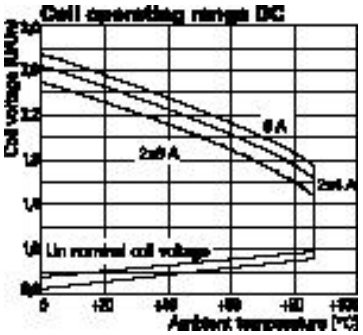
Accessories
Pluggable relay types

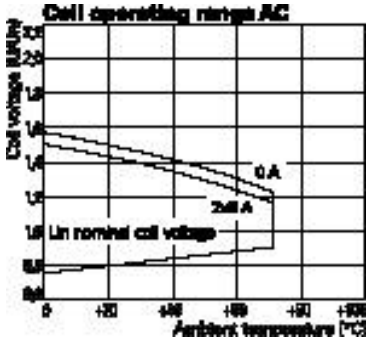
SCHRACK RT2
2 changeover contacts



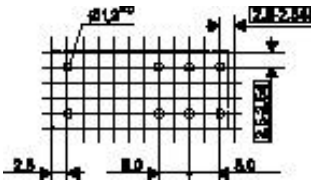




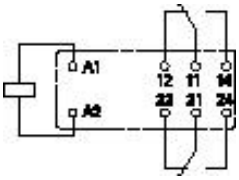




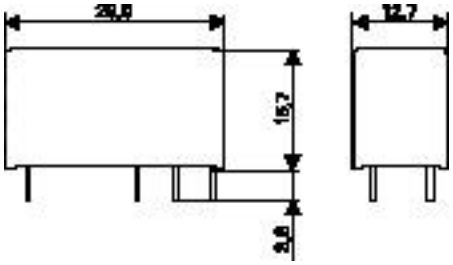
Print figure



circuit diagram



Dimensions

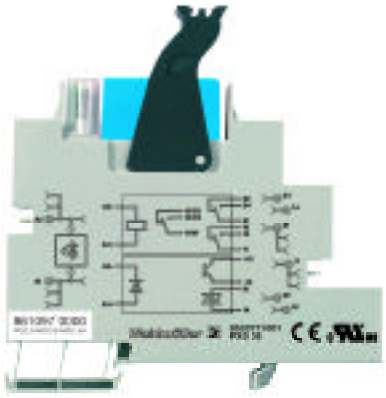


Pluggable relay	Type **Schrack RT**	**Part No.**
12 Vdc 2 changeover contacts (DPDT)	RT 424012	**4058560000**
24 Vdc 2 changeover contacts (DPDT)	RT 424024	**4058570000**
24 Vdc 2 changeover contacts (DPDT) AU	RT 425024	**4058580000**
48 Vdc 2 changeover contacts (DPDT)	RT 424048	**4058750000**
60 Vdc 2 changeover contacts (DPDT)	RT 424060	**4058760000**
110 Vdc 2 changeover contacts (DPDT)	RT 424110	**4058590000**
24 Vac 2 changeover contacts (DPDT)	RT 424524	**4058600000**
115 Vac 2 changeover contacts (DPDT)	RT 424615	**4058610000**
115 Vac 2 changeover contacts (DPDT) AU	RT 425615	**4058620000**
230 Vac 2 changeover contacts (DPDT)	RT 424730	**4058630000**
230 Vac 2 changeover contacts (DPDT) AU	RT 425730	**4058640000**

Technical data		
Contact number and type		2 changeover contacts (DPDT)
Contact material		AgNi 90/10, AgNi 0.15 htv
Switching current		2 x 8 A 2CO (DPDT)
Switching voltage		250 V ac
Breaking capacity		4 kVA
Min. switching current / breaking capacity		10 mA /100 mW
Min. breaking capacity AU contact		40 µW
Rated consumption		400 mW dc/0.75 VA ac
Dielectric strength coil / contact		5 kV
Response / drop out time:	DC coil	typ. 7/3 ms
	AC coil	9/45 ms
Bounce time NO contact/NC contact		typ. 1/3 ms
Mechanical service life:	DC coil	> 30 x 10^6 switching operations
	AC coil	> 5 x 10^6 switching operations
Breaking capacity	1-pole DC 13	1.25A, L/R = 80 ms 2.3 x 10^5
	2-pole DC 13	1.25A, L/R = 80 ms 2.8 x 10^5
	2-pole AC 15	1.2A, cosL/R = 0.3 6050x

Miscellaneous data		
Protection class		IP 40
Flammability class UL		V-0
Ambient temperature	DC coil	-40°C...85°C
	AC coil	-40°C...70°C
Weight		14 g
Approvals		VDE

Complete modules



- Modular principle
  - rail mounted sockets
  - LED indication unit
  - retaining clip
  - pluggable Solid State Relay
  - marker
- Flexible wiring technologies: screw or tension clamp connection
- Control voltage 24 Vdc, 24 Vac
- Cross-connection of control and switching circuits
- Available as complete module or as spare parts
- Zero voltage switching

Type	Part No.	input voltage	switching voltage	max. switching current
Screw connection				
POS 24VDC/24VDC 2.5A	**8610840000**	24 Vdc	24 Vdc	2.5 A
POS 24VDC/230VAC 2.0A	**8610860000**	24 Vdc	230 Vac	2.0 A
POS 24VDC/24Vac/dc 1.0A	**8610890000**	24 Vdc	24 Vac/dc	1.0 A
POS 24VDC/24VDC 5.0A	**8610900000**	24 Vdc	24 Vdc	5.0 A
POS 24VDC/230VAC 4.0A	**8610910000**	24 Vdc	230 Vac	4.0 A
POS 24VAC/24VDC 2.5A	**8615600000**	24 Vac	24 Vdc	2.5 A
POS 24VAC/24VDC 5.0A	**8615620000**	24 Vac	24 Vdc	5.0 A
POS 24VAC/230VAC 4.0A	**8615580000**	24 Vac	230 Vac	4.0 A
Tension clamp connection				
POZ 24VDC/24VDC 2.5A	**8610920000**	24 Vdc	24 Vdc	2.5 A
POZ 24VDC/230VAC 2.0A	**8610930000**	24 Vdc	230 Vac	2.0 A
POZ 24VDC/24Vac/dc 1.0A	**8610960000**	24 Vdc	24 Vac/dc	1.0 A
POZ 24VDC/24VDC 5.0A	**8610970000**	24 Vdc	24 Vdc	5.0 A
POZ 24VDC/230VAC 4.0A	**8610980000**	24 Vdc	230 Vac	4.0 A
POZ 24VAC/24VDC 2.5A	**8615640000**	24 Vac	24 Vdc	2.5 A
POZ 24VAC/24VDC 5.0A	**8615650000**	24 Vac	24 Vdc	5.0 A
POZ 24VAC/230VAC 4.0A	**8615630000**	24 Vac	230 Vac	4.0 A

Other variants on request

DC version

Technical data		
Input (typical values at 20 °C)		
Input voltage min. AC/DC	15 V	
Input voltage max. AC/DC	30 V	
Input current min. AC/DC	6.1 mA	
Input current max. AC/DC	12 mA	
Drop out voltage AC/DC	2.5 V	
Resistance	2.1 kΩ	
Input/output		
Coupling	SSR	
Electrical strength in-/output	2.5 kV_{eff}	
Output		
technical data		
see pages 21 and 22		
Further technical data		
Ambient temperature	-40°C ... +50°C	
Protection class	IP 20	
Rated connection	0.5...2.5mm²	
Relay type	Celduc SSR	
Dimensions (W/H/L) mm (in.)	15.3 x 92 x 87/95 (0.60 x 3.62 x 3.42/3.74)	
Approvals		
Rail mounted	TS 35	
Accessories		
Cross-connection		
2-pole black	ZQV 2.5N/4-2 SW	**1784270000**
2-pole red	ZQV 2.5N/4-2 RT	**1784280000**
2-pole blue	ZQV 2.5N/4-2 BL	**1784290000**
Marking tags		
	WS 10/5	**1060860000**
	WS 15/5	**1609880000**

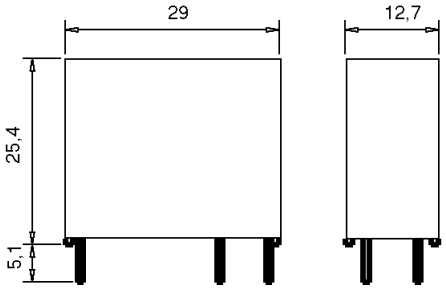
AC version

Technical data		
Input (typical values at 20 °C)		
Input voltage min. AC/DC	15 V	
Input voltage max. AC/DC	30 V	
Input current min. AC/DC	6.1 mA	
Input current max. AC/DC	12 mA	
Drop out voltage AC/DC	2.5 V	
Resistance	2.1 kΩ	
Input/output		
Coupling	SSR	
Electrical strength in-/output	4 kV_{eff}	
Output		
technical data		
see pages 21 and 22		
Further technical data		
Ambient temperature	-40°C...+50°C	
Protection class	IP 20	
Rated connection	0.5...2.5mm²	
Relay type	Celduc SSR	
Dimensions (W/H/L) mm (in.)	15.3 x 92 x 87/95 (0.60 x 3.62 x 3.42/3.74)	
Approvals		
Rail mounted	TS 35	
Accessories		
Cross-connection		
2-pole black	ZQV 2.5N/4-2 SW	**1784270000**
2-pole red	ZQV 2.5N/4-2 RT	**1784280000**
2-pole blue	ZQV 2.5N/4-2 BL	**1784290000**
Marking tags		
	WS 10/5	**1060860000**
	WS 15/5	**1609880000**

Accessories SSR Standard

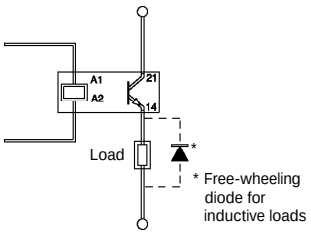


Dimensions

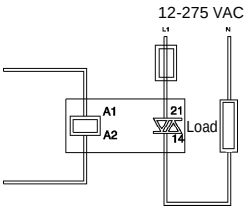


- Compact dimensions (29 x 25.4 x 12.7 mm)
- Combines to a complete unit with PLUGSERIES component housings PXS / PXZ, LED indicators PLED, and retaining clip PRC
- Fully compatible with electromechanical standard relays
- Control voltage 24 VAC/DC
- Nominal switching voltage 24 VDC or 230 VAC
- Up to 5 A continuous current
- Suitable for mounting on printed circuit boards or socket bases
- Optimum mounting density
- Zero voltage switching

DC version



AC version



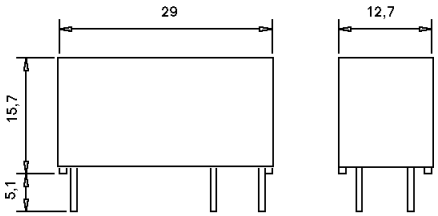
Ordering data	Type	Part No.	Type	Part No.
	SSR 24 Vac/dc/24VDC 5A		SSR 24 Vac/dc/230VAC 4A	
		8576350000		**8576360000**

Technical data	DC version	AC version
Input (typical values at 20°C)		
Input voltage min. AC/DC	15 V	15 V
Input voltage max. AC/DC	30 V	30 V
Input current min. AC/DC	6.1 mA	6.1 mA
Input current max. AC/DC	12 mA	12 mA
Drop-out voltage AC/DC	2.5 V	2.5 V
Resistance	2.1 kΩ	2.1 kΩ
Output		
Max. switching current DC	**5 A**	
Max. switching current AC		**3 A (4 A at 20°C)**
Min. switching current DC	1 mA	
Min. switching current AC		50 mA
Nominal switching voltage DC	24 V	
Nominal switching voltage AC		230 V ~
Switching-voltage range DC	0...30 V	
Switching-voltage range AC		12...275 V
Max. on-state voltage at max. switching current DC	0.3 V	
Max. on-state voltage at max. switching current AC		1.1 V
Max. make time DC	2 ms	
Max. make time AC (50 Hz)		12 ms
Max. break time DC	18 ms	
Max. break time AC (50 Hz)		20 ms
Isolation		
Test voltage control circuit - switching circuit DC	2.5 kV_{eff}	
Test voltage control circuit - switching circuit AC		4 kV_{eff}
Further technical data		
Operating temperature range	-40°C…+50°C	-40°C…+50°C
Weight	approx 18 g	approx 18 g
Approvals		
Celduc	SPD07505	SPA07420

Accessories SSR / RT



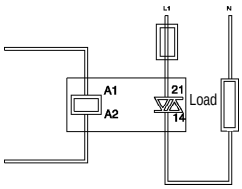
Dimensions



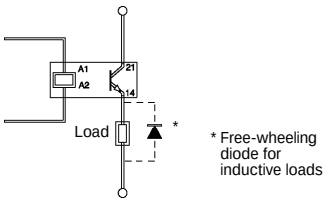
- Compact dimensions (29 x 15.7 x 12.7 mm)
- Combines to a complete unit with PLUGSERIES component housings PXS / PXZ, LED indicators PLED, and retaining clip PRC
- Fully compatible with electromechanical standard relay RT
- Control voltage 24 VAC/DC
- Nominal switching voltage 24 VDC, 24 VAC/DC or 230 VAC
- Up to 2.5 A continuous current
- Suitable for mounting on printed circuit boards or socket bases
- Optimum mounting density
- Zero voltage switching

AC version

12-275 VAC



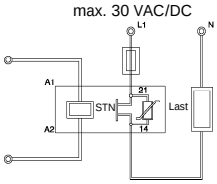
DC version



* Free-wheeling diode for inductive loads

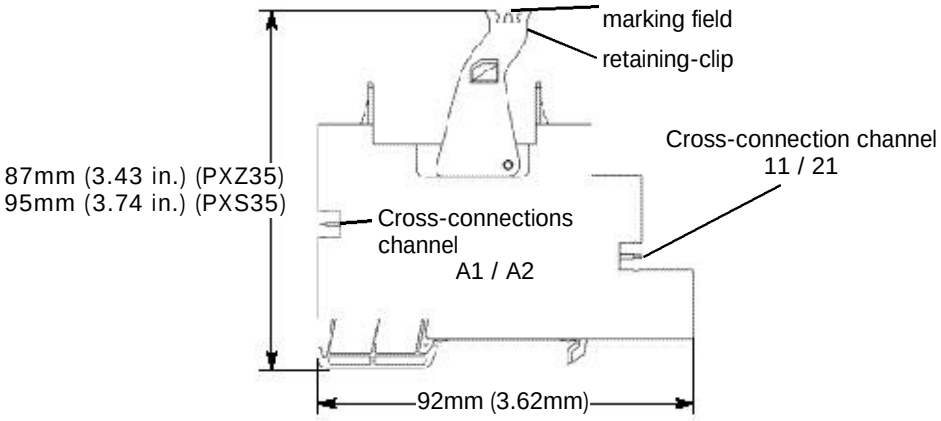
AC/DC version

max. 30 VAC/DC

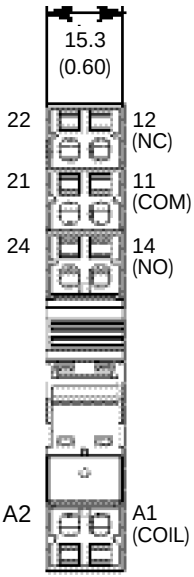


Ordering data	Type	Part No.	Type	Part No.	Type	Part No.
	SSR 24 Vac/dc/24VDC 2.5A		SSR 24 Vac/dc/230VAC 2A		SSR 24 Vac/dc/24Vac/dc 1A	
		8576340000		**8576370000**		**8576380000**
Technical data	**DC version**		**AC version**		**AC/DC version**	
Input						
(typical values at 20°C)						
Input voltage min. AC/DC	15 V		15 V		15 V	
Input voltage max. AC/DC	30 V		30 V		30 V	
Input current min. AC/DC	6.1 mA		6.1 mA		6.1 mA	
Input current max. AC/DC	12 mA		12 mA		12 mA	
Drop-out voltage AC/DC	2.5 V		2.5 V		2.5 V	
Resistance	2.1 kΩ		2.1 kΩ		2.1 kΩ	
Output						
Max. switching current DC	**2.5 A**					
Max. switching current AC			**2A**			
Max. switching current AC/DC					**1A**	
Min. switching current DC	1mA					
Min. switching current AC			50mA			
Min. switching current AC/DC					1mA	
Nominal switching voltage DC	24 V					
Nominal switching voltage AC			230 V			
Nominal switching voltage AC/DC					24 V	
Switching-voltage range DC	0...30 V					
Switching-voltage range AC			12...275 V			
Switching-voltage range AC/DC					0...30 V	
Max. on-state voltage at max. switching current DC	0.5 V					
Max. on-state voltage at max. switching current AC			1 V			
Max. on-state voltage at max. switching current AC/DC					0.9 V	
Max. make time DC	2 ms					
Max. make time AC (50 Hz)			12 ms			
Max. make time AC/DC (50 Hz)					5 ms	
Max. break time DC	18 ms					
Max. break time AC (50 Hz)			20 ms			
Max. break time AC/DC (50 Hz)					12 ms	
Isolation						
Test voltage control circuit - switching circuit DC	2.5 kV_{eff}					
Test voltage control circuit - switching circuit AC			4 kV_{eff}			
Test voltage control circuit - switching circuit AC/DC					4 kV_{eff}	
Further technical data						
Operating temperature range	-40°C…+50°C		-40°C…+50°C		-40°C…+50°C	
Weight	approx. 11 g		approx. 11 g		approx. 11 g	
Approvals						
Celduc	STD07205		STA07220		STN07105	

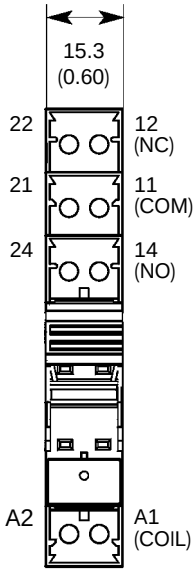
Accessories



Tension clamp



Screw connection



Empty base for rail mounted TS 35	Type	Part No.
Screw connection	PXS35	**8533771001**
Tension clamp connection	PXZ35	**8536691001**

Technical data	
Rated current	16 A
Rated voltage	250 V
Dielectric strength coil/contacts	> 4 kV
Protection class	IP 20
Rated cross-section	2.5 mm²
Insulation stripping length	
- Screw connection	8 mm (0.32 in.)
- Tension clamp connection	10 mm (0.40 in.)
Ambient temperature	-40°C ... +60°C
Flammability class UL 94	V-0

Holding clamp	Type	Part No.
	PRC	**8536700000**

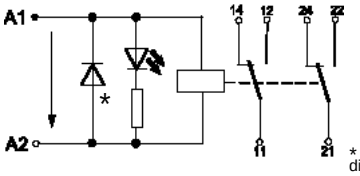
Operating indication		
LED indicator with free-wheeling diode		
6 ... 24 Vdc	PLED 24 Vdc	**8536710000**
6 ... 24 Vdc	PLED 24 Vdc red	**8611010000**
48 ... 60 Vdc	PLED 48 Vdc	**8536720000**
115 Vdc	PLED 115 Vdc	**8536730000**
12 ... 24 Vac	PLED 24 Vac	**8536750000**
115 Vac	PLED 120 Vac	**8536760000**
230 Vac	PLED 230 Vac	**8536780000**
230 Vac	PLED 230 Vac red	**8611000000**
RC combination 120...230 VAC/DC	PLRC 200 nF/200Ω	**8566530000**

Pluggable cross-connection		
2-pole black	ZQV 2.5N/4-2SW	**1784270000**
2-pole red	ZQV 2.5N/4-2RT	**1784280000**
2-pole blue	ZQV 2.5N/4-2BL	**1784290000**

Marking tags	Type	Part No.
10 x 5 mm	WS 10/5	**1060860000**
	WS 15/5	**1609880000**

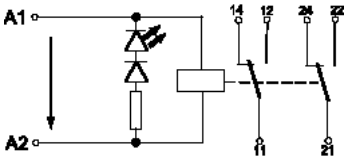
Operating indication

DC version



* free wheel diode

AC version



Advantages of the PLUGSERIES for industrial use

The concept

The product family is specialized for digital switching applications in industrial, process and building automation. The base is a universal socket base that is snapped onto mounting rails. Industrial relays from different manufacturers can be used.

Easy to plug in relays

Compact size

Flexible technology for excellent value

Screw or tension clamp technology

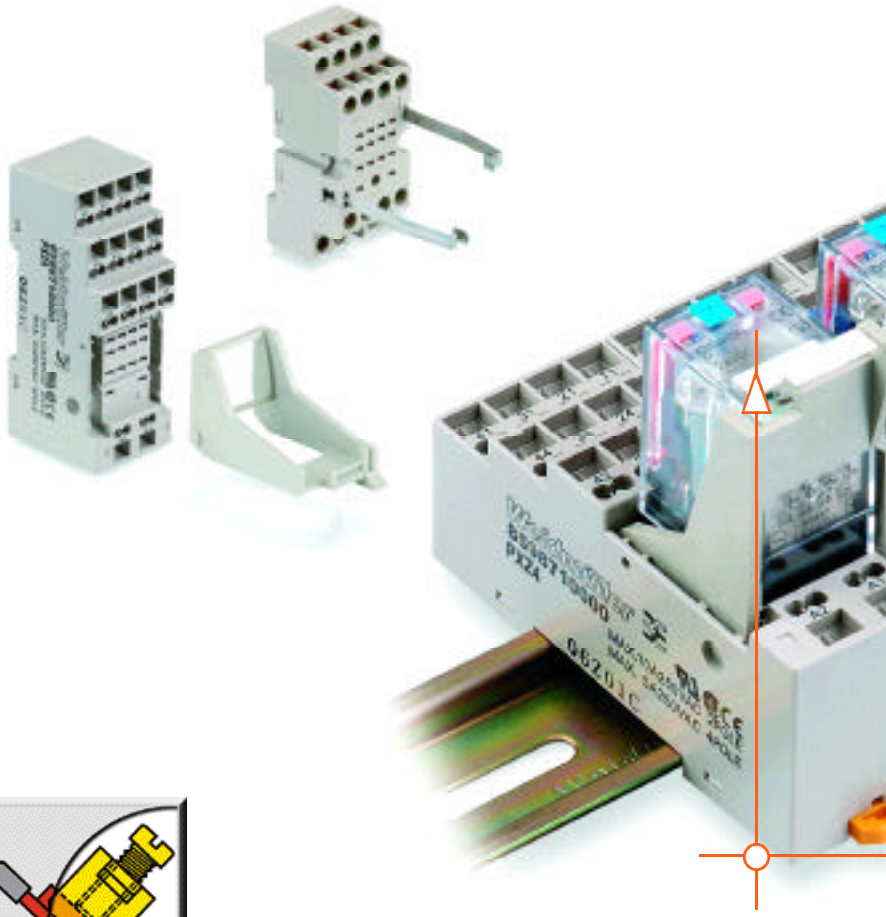
2 pole and 4 pole relays
can be used

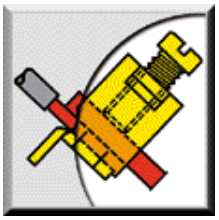
Applicable wiring:
0.2…1.5 mm^2 (24...16 AWG)

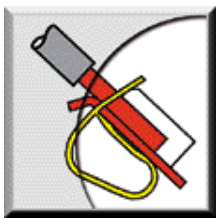
max. switching load:
10 A / 250 Vac (2 changeover contact) (SPDT)
5 A / 250 Vac (4 changeover contact) (4PDT)

Modular principle

The PLUGSERIES for industrial use is particularly service friendly. Commercially available relays can simply be used, retaining and release clips guarantee that the relays are secure.





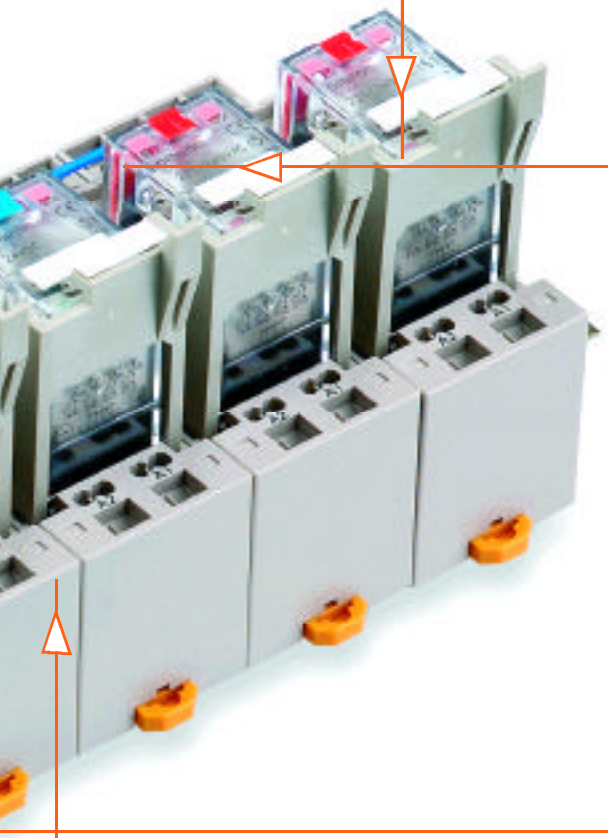


Connection

The greatest possible flexibility when it comes to wiring. The modules are available with screw or tension clamp technology.

Securely mounted

The retaining and release clip guarantees that the relay is securely held. It ensures that the relay can be quickly ejected when servicing is required without disturbing wiring.

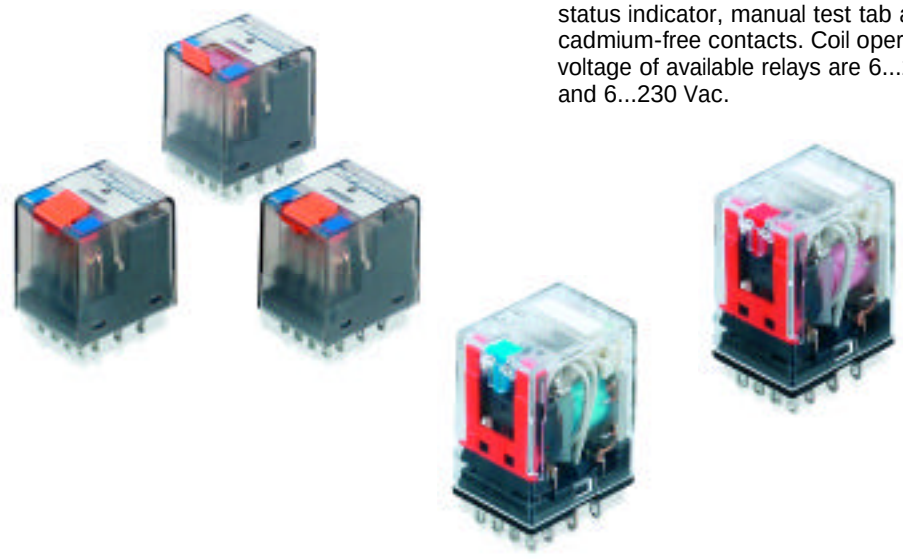


Cross-connection

Pluggable cross-connections are available in different colors. Input potential and contact connections can be bridged from one module to another.

Industrial relays

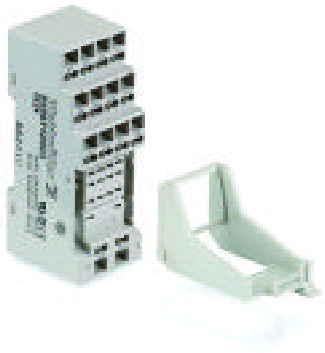
Available are different relays from Omron and Schrack. The 4 change over relays are equipped with mechanical and optical status indicator, manual test tab and cadmium-free contacts. Coil operating voltage of available relays are 6...220 Vdc and 6...230 Vac.



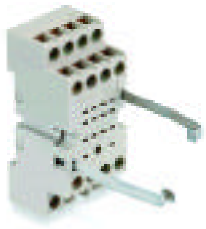
Socket for industrial relays

- Choice of connection technology: screw or tension clamp
- Applicable wiring up to 1.5 mm²
- For 2 pole and 4 pole relays
- Insulation according to VDE 0110
- Tension clamp version offers:
  – simple wiring procedure
  – two independent terminals for each contact
  – cross-connectable connection
  – isolated construction of coil and contact terminals

PXZ4



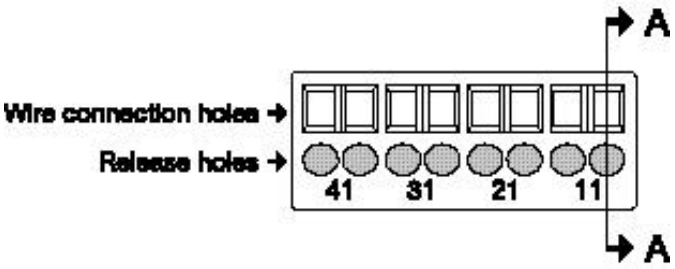
PXS4



Ordering data		Type	Part	Type	Part No.
Socket for mounting rail TS 35					
Tension clamp connection		PXZ4	**8598710000**		
Screw connection				PXS4	**8614350000**
Technical data					
Nominal current		5 A at 70°C (with relay MY4)		5 A at 70°C (with relay MY4)	
Nominal voltage		250 Vac		250 Vac	
Dielectric strength coil / contacts		2000 Vac		2000 Vac	
Clearance and creepage distance input-/output		2000 Vac		2000 Vac	
Protection class		IP 20		IP 20	
Applicable wire		0.2...1.5 mm² (AWG 24…16) two wiring units		0.2...1.5 mm² (AWG 24…16)	
Insulation stripping length		8 mm (0.32 in.)		8 mm (0.32 in.)	
Ambient temperature		max. 70°C		max. 70°C	
Flammability class UL 94		V-1		V-1	
Dimensions (W/L/H)	mm (in.)	31/85/36.5 (1.22/3.35/1.44)		29.5/66.5/30 (1.16/2.62/1.18)	
Ordering data		**Type**	**Part No.**	**Type**	**Part No.**
Retaining clip					
Relay, Typ: MY4		PXZ4-PIRC	**8598610000**	PXS4-PIRC	**8633920000**
Relay, Typ: PT5		PT 28802	**8572170000**		
Marker					
Only for PXZ4-PIRC		WS PXZ4	**8598630000**	none	
Cross-connection					
Blue		ZQV PXZ4-bl	**8611090000**	none	
Red		ZQV PXZ4-rt	**8611100000**		
Screwdriver		SD	**9009030000**		
Approvals		VDE, CSA		VDE, CSA	

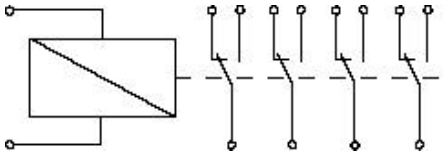
Wiring procedure

Insert the specified screwdriver into the round release hole located beside the wire connection hole where the wire is to be inserted.

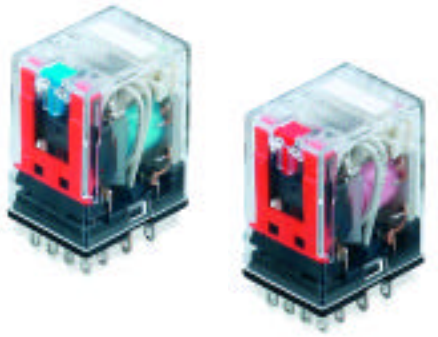


Miniature Power Relay MY4

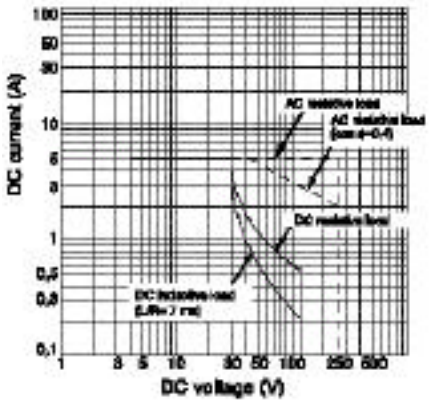
- 4 change over contacts
- Choice between DC- and AC input coil
- Mechanical status indicator
- Status indicator LED
- Manual test tab
  (blue = DC coil, red = AC coil)
- Cadmium-free contact material with 3µm gold-plated contacts
- Pluggable to Weidmüller socket PXZ4 and PXS4



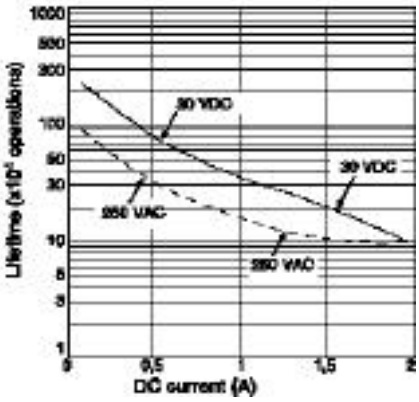
MY4 IN / MY4 IN1



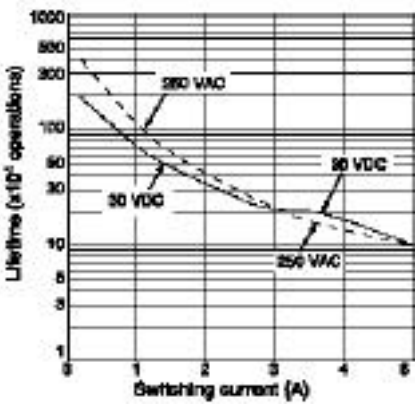
Breaking capacity



Lifetime (inductive load)



Lifetime (resistive load)



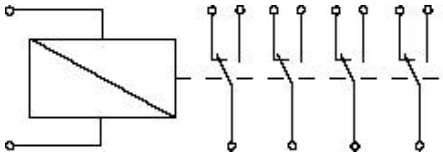
Ordering data		Type	Part No.
	12 Vdc	MY4 IN1-12	**8598660000**
	24 Vdc	MY4 IN1-24	**8598700000**
	110 Vdc	MY4 IN1-110	**8598640000**
	24 Vac	MY4 IN-24	**8598690000**
	120 Vac	MY4 IN-120	**8598650000**
	230 Vac	MY4 IN-230	**8598670000**
		additional relays on request	

Technical data		
Coil data		
Nominal voltage	- DC coil	12/24/110 V-
	- AC coil	24/120/230 V~
Nominal coil power	- DC coil	typ. 0.9 W
	- AC coil	typ. 1.0 VA
Response / drop-out time	- DC coil	80 / 10 (in % Nominal voltage)
	- AC coil	80 / 30 (in % Nominal voltage)
Contact data		
Number of contacts		4 changeover contact
Contact material		AgNi, 3µm Gold-plated
Rated current		4 x 5 A
Max. switching voltage	- DC coil	125 V-
	- AC coil	250 V~
Max. breaking capacity AC		1250 VA
Switching current		4 x 5 A
Minimum contact load		5 Vdc, 10 mA
General data		
Flammability class UL 94		V-2
Ambient temperature		-55...+70°C
Mechanical lifetime	- DC coil	>10x10⁷
	- AC coil	>50x10⁶
Response / drop-out time		20 / 20 ms
Bounce time		max. 20 ms
Weight		35 g
Dimensions (W/L/H) mm(in.)		21.5/36/28 (0.85/1.42 /1.10)
Isolation		
Dielectric strength coil - contacts		2000 Vac
Isolation acc. to IEC 664/VDE 0110 (1/89)		
- Rated voltage		240 V
- Pollution degree		2
- Overvoltage category		II
Isolation acc. to VDE 0110b (2/79)		
- Insulation category / ref. Voltage		A250 / B125

Accessories		Type	Part No.
- Terminal, tension clamp version		PXZ4	**8598710000**
- Terminal, screw version		PXS4	**8614350000**
- Retaining clip for PXZ4		PXZ4-PIRC	**8598610000**
- Retaining clip for PXS4		PXS4-PIRC	**8633920000**
- Marker		WS-PXZ4	**8598630000**
- Cross-connection	blue	ZQV-PXZ4-bl	**8611090000**
	red	ZQV-PXZ4-rt	**8611100000**
Approvals		CE VDE, CSA	

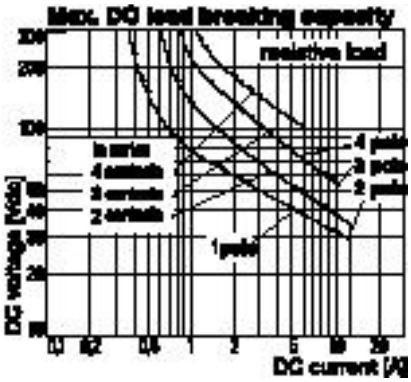
Miniature-Relay PT 5

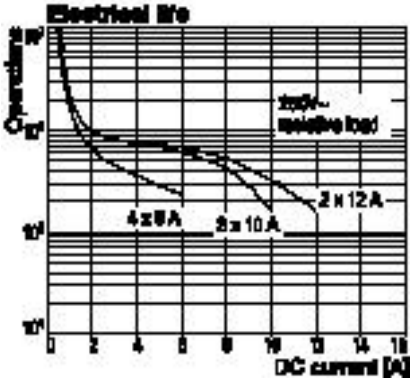
- 4 change over contacts
- Choice between DC- and AC input coil
- Mechanical status indicator
- Manual test tab lockable
- Cadmium-free contact material
- Pluggable to Weidmüller socket PXZ4 with retaining clip PT 28802

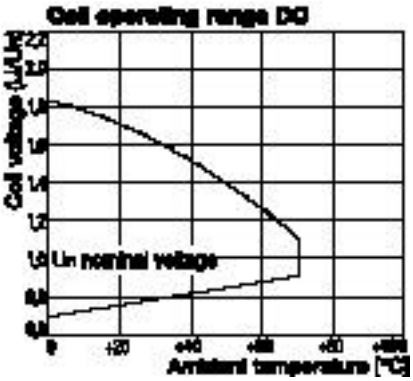


PT 5









Ordering data		Type	Part No.
	6 Vdc	PT 570006	**8074650000**
	12 Vdc	PT 570012	**8054360000**
	24 Vdc	PT 570024	**1180700000**
	48 Vdc	PT 570048	**8074670000**
	60 Vdc	PT 570060	**8074680000**
	115 Vdc	PT 570110	**8074700000**
	220 Vdc	PT 570220	**8636230000**
	6 Vac	PT 570506	**8074710000**
	12 Vac	PT 570512	**8074730000**
	24 Vac	PT 570524	**1181800000**
	48 Vac	PT 570548	**1180900000**
	60 Vac	PT 570560	**8074760000**
	115 Vac	PT 570615	**1180800000**
	230 Vac	PT 570730	**1181100000**
		additional relays on request	

Technical data		
Coil data		
Nominal voltage	- DC coil	6...220 V-
	- AC coil	6...230 V~
Nominal coil power	- DC coil	Typ. 0.75 W
	- AC coil	Typ. 1.0 VA
Pull-in voltage / Release voltage	- DC coil	75 / 10 (in % Nominal voltage)
	- AC coil	80 / 10 (in % Nominal voltage)
Operating range AC coil, 60 Hz to 70°C		90...110% V_{nom}
Contact data		
Number of contacts		4 changeover contact
Contact material		AgNi 90/10, AgNi 90/10 htv
Rated current		4 x 6 A
max. switching voltage		250 Vac
max. breaking capacity AC		1500 VA
Switching current		4 x 6 A
Minimum contact load		24 V, 10 mA / 20 mV, 1 mA htv
General data		
Flammability class UL 94		V-0
Ambient temperature	- DC coil	-40...+70°C
	- AC coil	-40...+70°C
Mechanical lifetime	- DC coil	>30x10⁶
	- AC coil	>20x10⁶
Response / drop-out time		15 / 10 ms
Bounce time		5 ms
Weight		30 g
Dimensions (W/H/L) mm(in.)		22.5/30/28 (0.88/1.18/1.10)
Isolation		
Dielectric strength coil - contacts		2500 V_{eff}
Isolation acc. to IEC 664/VDE 0110 (1/89)		
- Rated voltage		240 V
- Pollution degree		2
- Overvoltage category		III
Isolation acc. to VDE 0110b (2/79)		
- Insulation category / ref. Voltage		B / 250

Accessories	Type Schrack	Part No.
- Retaining clip	PT28802	**8572170000**
Approvals	VDE, CSA	

Weidmüller Worldwide

A

♦ **Argentina**
CPI SA
Bauness 2660
1431 Buenos Aires
Phone +54 11-45238008
Fax +54 11-45220546
cpi@satlink.com

● **Australia**
Weidmüller Pty. Ltd.
43 Huntingwood Drive
Huntingwood,
NSW, 2148
P.O.Box 6944
Blacktown
NSW, 2148
Phone +61 2-9671-9999
Fax +61 2-9671-9911
info@weidmuller.com.au
http://www.weidmuller.com.au

● **Austria**
Weidmüller Ges.m.b.H.
Industriezentrum Nö Süd
Straße 2, Objekt M2
2355 Wiener Neudorf
Phone +43 2236-6708-0
Fax +43 2236-6708-199
office@weidmueller.at

B

Bahrain
Please contact
Weidmüller Middle East
United Arab Emirates

● **Belarus**
Tehnikon Ltd.
Apt. 704, Haus 16/5, Oktiabrskaya
Str., Minsk 220801
Phone +375 17-2275830
Fax +375 17-2275830
tehnikon@belsonet.net

● **Belgium**
Weidmüller N. V.
Ambachtenlaan 11 A
3001 Heverlee
Phone +32 16-395990
Fax +32 16-401051
info@weidmueller.be

● **Brazil**
Conexel Conexoes Elétricas Ltda.
Rua Garcia Lorca, 176- V.
Paulicéia,
09695-900 , Sao Bernado do
Campo - SP, Brasil
Phone +55 11-43669600
Fax +55 11-43621677
vendas@conexel.com.br
http://www.conexel.com.br

♦ **Bulgaria**
Weid-Bul eOOd
ul. Nezabravka 33 A
bl. 315/3/10
1113 Sofia
Phone +359 2-963-2560
Fax +359 2-963-1098

C

● **Canada**
Weidmüller Ltd.
10 Spy Court
Markham
Ontario L3 R5 H6
Phone +1 905-475-1507
Fax +1 905-475-2798
http://www.weidmuller.ca

C

♦ **Chile**
Felipe Bahamondes S.A./ATS
AGRO
Servicios Agroindustriales
Maria Luisa Santander 0475
Providencia
Casilla 3425
Santiago
Phone +56 2-341-1271
Fax +56 2-341-1275

♦ **China**
Weidmuller Interface
International Trading (Shanghai)
Co. Ltd.
27C No., 500 Fu Te Dong Er Rd.,
WGQ Free Trade Zone,
Pudong New Area Shanghai,
PRC China
Phone +86 21-50462384
Fax +86 21-50462282
http://www.weidmuller.com

♦ **Colombia**
Automatizacion Avanzada S. A.
Carrera 97 No. 42 A-23 B3,
Santafe de Bogotá Colombia.
Phone +57 1-4132048
Fax +57 1-4159788
mgallegos@
automatizacionavanzada.com

♦ **Costa Rica**
ELVATRON S.A.
400 metros Norte de la Agencia
del Banco de Costa Rica en la
Uruca, San Jose, Costa Rica
Phone +506 2-961060
Fax +506 2-326071
dirk.haase@elvatron.com

♦ **Croatia**
Elektro Partner d.o.o.
Radnicka cesta 22
10000 Zagreb
Phone +385 1-6184793
Fax +385 1-6184795

● **Czech Republic**
Weidmüller s. r. o.
Videnska ul. 340
25242 Vestec u Prahy
Phone +420 2-44001400
Fax +420 2-44001499
office@weidmueller.cz

D

♦ **Denmark**
Knud Wexøe A/S
Skaettekaeret 11
P.O. Box 152
2840 Holte
Phone +45 45465800
Fax +45 45465801
wexoe@wexoe.dk

E

Egypt
Please contact
Weidmüller Middle East
United Arab Emirates

El Salvador
Please contact ELVATRON S. A.,
Costa Rica

Estonia
Please contact
JUHA-ELEKTRO OY, Finland

F

♦ **Finland**
JUHA-ELEKTRO OY
Kylvöpolku 6
P. O. Box 57
00681 Helsinki
Phone +358 9-478411
Fax +358 9-47841311

● **France**
Weidmüller Sarl
12, Chaussée Jules César
B.P. 263 Osny
95523 CERGY PONTOISE Cedex
Phone +33 1-34245500
Fax +33 1-34245501
mail@weidmuller.fr
http://www.weidmuller.fr

G

● **Germany**
Weidmüller GmbH & Co.
(33 058) Postfach 28 07
(33 102) An der Talle 89
Paderborn
Phone +49 5252-960-0
Fax +49 5252-960-116
info@mail.weidmueller.de
http://www.weidmueller.de

♦ **Greece**
Voltampere S.A.
2nd Km., Lagada- Rendina
57200 Lagadas- Thessaloniki
Phone +30 3940-26188
Fax +30 3940-26189
import@voltampere.gr

Guatemala
Please contact ELVATRON S. A.,
Costa Rica

H

Honduras
Please contact ELVATRON S. A.,
Costa Rica

♦ **Hong Kong**
United Equity Limited
Suite B, 11/F International
Industrial Centre
2-8 Kwei Tei Street, Fotan
Shatin, N. T.
Phone +852 26876739
Fax +852 26876735

● **Hungary**
Weidmüller Kereskedelmi Kft
Dombóvári út 13
1117 Budapest
P. O. Box 22
1507 Budapest
Phone +36 1-464-7888
Fax +36 1-203-4128
info@weidmueller.hu

I

♦ **India**
Weidmüller Representive Office
Vijay Dattani
119, Prashanth Extension
Whitefield
Bangalore - 560 066
Phone +91 80-8453999
Fax +91 80-8453999

♦ **Indonesia**
P. T. Nego Electrindo
Komplek Perkantoran Kramat
Centre
Blok-A 18 Jl Kramat Raya No. 7-9
Jakarta 10450
Phone +62 21-3156218
Fax +62 21-3156219

I

♦ **Iran**
MACS KALA Ltd. Co.
Unit 4, Alborz Building, No. 12-14
Nikouquadam Alley, North
Sohrevardi Street
P.O.Box 15115-481
15548 Teheran
Phone. +98 21-876-6770
Fax +98 21-876-6770
macskala@sinasoft.net

♦ **Ireland**
A.P. Haslam Ltd.
14 Sunshine Ind. Estate
Crumlin Road
Dublin 12
Phone +353 1-453-2522
Fax +353 1-453-2949
paul.haslam@aphaslam.ie

♦ **Israel**
A.U. Shay Ltd.
Embar Street 23/25
P.O.Box 10049
Petch-Tikva 49222
Phone +972 3-9233601
Fax +972 3-9234601

● **Italy**
Weidmüller S.r.l.
Via Albert Einstein 4
20092 Cinisello Balsamo
Milano
Phone +39 02-660681
Fax +39 02-6124945
weidmuller@weidmuller.it
http://www.weidmuller.it

J

● **Japan**
Nihon Weidmüller Co. Ltd.
8F, Wako Bldg, 2- 1- 3
Iwamoto- cho Chiyoda- ku,
Tokyo 101- 0032
Japan
Phone +81 3-5820-5747
Fax +81 3-5820-5836
http://www.weidmuller.co.jp

Jordan
Please contact
Weidmüller Middle East
United Arab Emirates

K

● **Korea**
Weidmüller (Korea) Co.,Ltd.
Ocean tower 5F, 760-3, Woo- 1
Dong, Haeundae-gu, Pusan
Phone +82 51-5564661
Fax +85 51-5567408

Kuwait
Please contact
Weidmüller Middle East
United Arab Emirates

L

Lebanon
Please contact
Weidmüller Middle East
United Arab. Emirates

Luxembourg
Please contact
Weidmüller Belgium, Heverlee

M

● **Malaysia**
Weidmüller (Malaysia) Sdn. Bhd.
22 Jalan PJS 11/16 Bandar Sunway,
46150 Petaling Jaya, Selangor Darul Ehsan
Phone +60 3-7337363
Fax +60 3-7336562

● **Mexico**
Weidmüller S. A. de. C.V.
AVE. Ingenieros Civiles No. 204
Conjunto Industrial Chachapa
Chachapa, Puebla C.P. 72990
Phone +52 222-2866247/48/49
Fax +52 222-2866442

♦ **Morocco**
Energy-Technics Transfer, S.A.
23 Boulevard Lieutnant Mohamed El Bakai Tamri
Casablanca 20250
Phone +212 2-343700
Fax +212 2-343699

N

● **Netherlands**
Weidmüller B.V.
Franciscusweg 221
1216 SE Hilversum
Postbus 1505
1200 BM Hilversum
Phone +31 35-6261261
Fax +31 35-6234569
info@weidmuller.nl
http://www.weidmuller.nl

♦ **New Zealand**
Cuthbert S. Steward Limited
27 Te Puni Street
POB 38496 Petone
Petone, Wellington
Phone +64 4-5686156
Fax +64 4-5686056

Nicaragua
Please contact ELVATRON S. A., Costa Rica

♦ **Norway**
Siv. Ing. J. F. Knudtzen A/S
Billingstadsletta 97
P. O. Box 160
1378 Nesbru
Phone +47 66-983350
Fax +47 66-980955
patorgersbraaten@jfknudtzen.no

O

Oman
Please contact
Weidmüller Middle East
United Arab Emirates

P

♦ **Pakistan**
Access Technology Networks (ATN) Pvt Ltd.
No 47 College Road
Sector F-7/2
Islamabad
Phone +92 51-275698
Fax +92 51-275665

Panama
Please contact ELVATRON S. A., Costa Rica

♦ **Peru**
DIN AUTOMATIZACION S. A.
Rimac Pampa 385 - Maranga
Lima 32
Phone +51 1-4511733
Fax +51 1-4491095
din_aut@terra.com.pe

P

♦ **Philippines**
Revler Global Sales Corp.
28 G Galvez Building Severina Avenue, Severina Km. 18,
West Service Road, SSH,
Paranaque City, Metro Manila
Tel. +63 2-8214307
Fax +63 2-7764169

● **Poland**
Weidmüller Sp.z.o.o.
ul. Domaniewska 39a
02-672 Warszawa
Phone +48 22-6402986
Fax +48 22-6402992

● **Portugal**
Weidmüller - Sistemas de Interface, S. A.
Estrada Outeiro Polima, Lote B, N° B2
Escritório 2 - Abóboda
2785-518 Sao Domingos de Rana
Phone +351 21-4459190
Fax +351 21-4455871
weidmuller@mail.telepac.pt
http://www.weidmuller.pt

Q

Qatar
Please contact
Weidmüller Middle East
United Arab Emirates

R

♦ **Romania**
ROMINTERFACE IMPEX SRL
Splaiul Unirii nr. 45, Bl. M 15
sc. 3, ap. 68-69, Sect. 3
74342 Bucuresti
Phone +40 1-3220230
Fax +40 1-3228857
romint@dnt.ro

♦ **Russia**
Weidmüller Koordinationsbüro
Stanislav Khmelnitski
Ul. Schepkina,28,
129804 Moskau
Phone +7 95-28490-70
Fax +7 95-28490-71
info@weidmueller.ru
http://www.weidmueller.ru

S

Saudi Arabia
Please contact
Weidmüller Middle East
United Arab Emirates

● **Singapore**
Weidmüller Pte Ltd
1 Kallang Sector # 07-01/03
Singapore 349276
Phone +65 6841-5311
Fax +65 6841-5377
weidsing@singnet.com.sg
http://weidmuller.com.sg

♦ **Slovakia**
ELEKTRIS, spol. s.r.o.
Stará Vajnorská 25
83 104 Bratislava
Phone +421 2-44457830
Fax +421 2-44457833
weidmueller@computel.sk

♦ **Slovenia**
ELEKTROSPOJI d.o.o.
Stegne 25
1000 Ljubljana
Phone +386 6-15113810
Fax +386 6-15111604

S

♦ **South Africa**
RAD Interface Pty. Ltd.
5 Bundo Road
Sebenza Extension
Edenvale 1609
P.O.Box 193
Edenvale 1610
Phone +27 11-452-1930
Fax +27 11-452-6455

● **Spain**
Weidmüller S. A.
Narcis Monturiol 11-13
Pol.Ind. N° 1
08960 Sant Just Desvern
Barcelona
Phone +34 93-3722061
Fax +34 93-3718055
http://www.weidmuller.es
weidmuller@weidmuller.es

● **Sweden**
Weidmüller AB
Stockholm
Skebokvarnsvägen 370
124 50 Bandhagen
Phone +46 8-7272300
Fax +46 8-7272480
mail.stockholm@weidmuller.se

● **Switzerland**
Weidmüller Schweiz AG
Rundbuckstrasse 2
CH - 8122 Neuhausen am Rheinfall
Phone +41 52-6740707
Fax +41 52-6740708
mail:info@weidmueller.ch
http://weidmueller.ch

Syria
Please contact
Weidmüller Middle East
United Arab Emirates

T

♦ **Taiwan**
Fittatek Corp., Ltd.
12 F No. 185 Fu- Kuo Rd,
Tso Ying Dist,
Kaohsiung, Taiwan R.O.C.
Tel. +886 7556-0858
Fax +886 7556-3279

♦ **Thailand**
Pisanu Engineering & Construction Co. Ltd.
800/2 Asoke-Dindaeng Road
Dindaeng
Bangkok 10400
Phone +66 2-2459113
Fax +66 2-2463214
pisanu@kanit.co.th

● **Turkey**
Weidmüller Elektronik Ticaret Ltd. Sirketi
Kore Sehitleri Cad. 34/1-7
80300 Zincirlikuyu – Istanbul
Phone +90 212-2730830
Fax +90 212-2740874
info@weidmuller.com.tr

U

♦ **Ukraine**
TEKO TOB
A / C 377
Ul. Tschujkowa 2
256400 Belaja Zerkow-17
Phone +380 4463-56892
Fax +380 4463-667610

● **United Arab Emirates**
Weidmüller Middle-East
P.O. Box 62448
Dubai
Phone +971 4-3522215, 3523043
Fax +971 4-3599950

U

● **United Kingdom**
Weidmüller Ltd.
1 Abbey Wood Road
Kings Hill
West Malling
Kent ME19 4YT
Phone +44 1732-877000
Fax +44 1732-873873
sales@weidmuller.co.uk
http://www.weidmueller.com

● **USA**
Weidmüller Inc.
821 Southlake Boulevard
Richmond, Virginia 23236
Phone +1 804–794-2877
Fax +1 804–379-2593
info@weidmuller.com
http://www.weidmuller.com

V

♦ **Vietnam**
Thien Nghi Trading Pte
60B Tan Da Street
District 5 Ho Chi Min
Phone +84 8–8555387
Fax +84 8–8549304

Y

Yemen
Please contact
Weidmüller Middle East
United Arab Emirates

♦ **Yugoslavia**
ES-YU ELEKTROSISTEM d.o.o.
Pariske komune 41
11070 Novi Beograd
Phone +381 11–693608
Fax +381 11–697212
esyu@infosky.net

● **Other countries**
Weidmüller Interface GmbH & Co.
Postfach 3030 · D-32720 Detmold
Phone +49 5231–14-0
Fax +49 5231–14-2083
info@weidmueller.com
http://www.weidmueller.com

● **Group companies**
♦ **Agencies**

Argentina
Australia
Austria
Bahrain
Belarus
Belgium
Brazil
Bulgaria
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www.weidmuller.com www.weidmuller.com

www.weidmuller.com

Weidmuller Inc.

821 Southlake Blvd., Richmond, Virginia 23236

Telephone: (800) 849-9343 Facsimile: (804) 379-2593

Email: info@weidmuller.com Website: www.weidmuller.com

Weidmuller Ltd.

10 Spy Court, Markham, Ontario L3R-5H6

Telephone: (800) 268-4080 Facsimile: (905) 475-2798

Email: info1@weidmuller.ca Website: www.weidmuller.ca

Weidmuller, S.A. de C.V.

5 Sur No. 4311, Col. Huexotitla, 72534 Puebla, Pue. Mexico

Telephone: (22) 37 2549 Facsimile: (22) 43 1981

Email: weidmull@acnet.net

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