

RELAY- AND OPTO-COUPLES RELAY- AND OPTO-COUPLES



**MICROSERIES AND PLUGSERIES MICROSERIES
MICROSERIES AND PLUGSERIES MICROSERIES AND PLUGSERIES**

PRODUCT INFORMATION

When good enough just isn't good enough

Weidmüller 

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Advantages of the MICROSERIES

The concept

The relay coupler and optocoupler variants from the **MICROSERIES** are used in automation applications to isolate and couple digital input and output signals. Their compact design means that they are particularly suitable for use in PLC cabinets as well as in switchgear cabinets where they help the user to make optimum use of valuable switching space. With its compact design, the **MICROSERIES** elegantly combines the functionality of the classic coupling level and the terminal level.

6.1-mm mounting width

Pluggable cross-connections of four potentials in the inputs and outputs

Proven cross-connection system ZQV 4N

Wide input voltage spectrum from 5 ... 230 V

LED-indicator
reverse-connect protection
free-wheeling diode

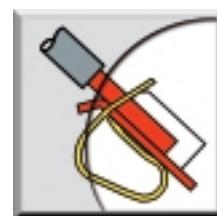
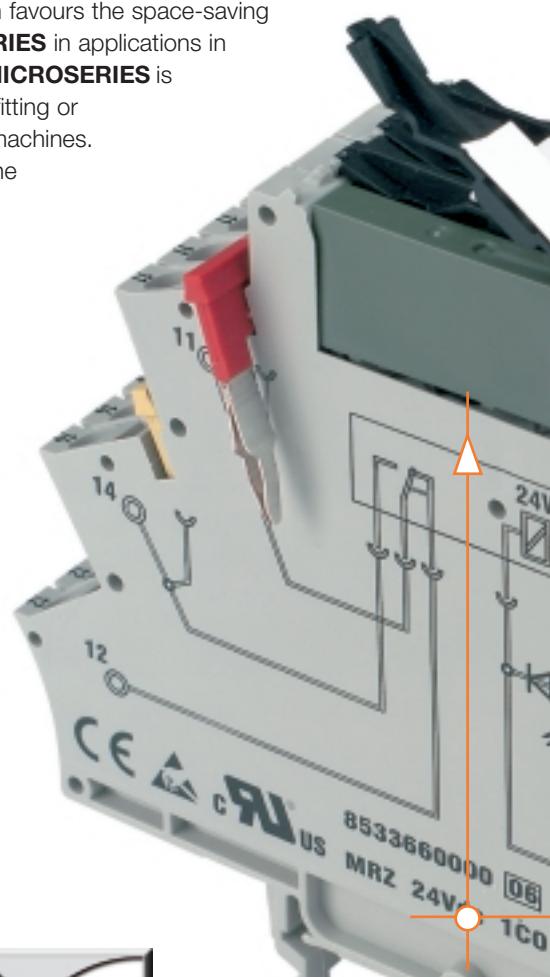
Housing material: WEMID
Flammability class: V-0 in accordance with UL 94

Innovative retaining and release system

Marking surfaces for fitting standard WS 12/6 markers

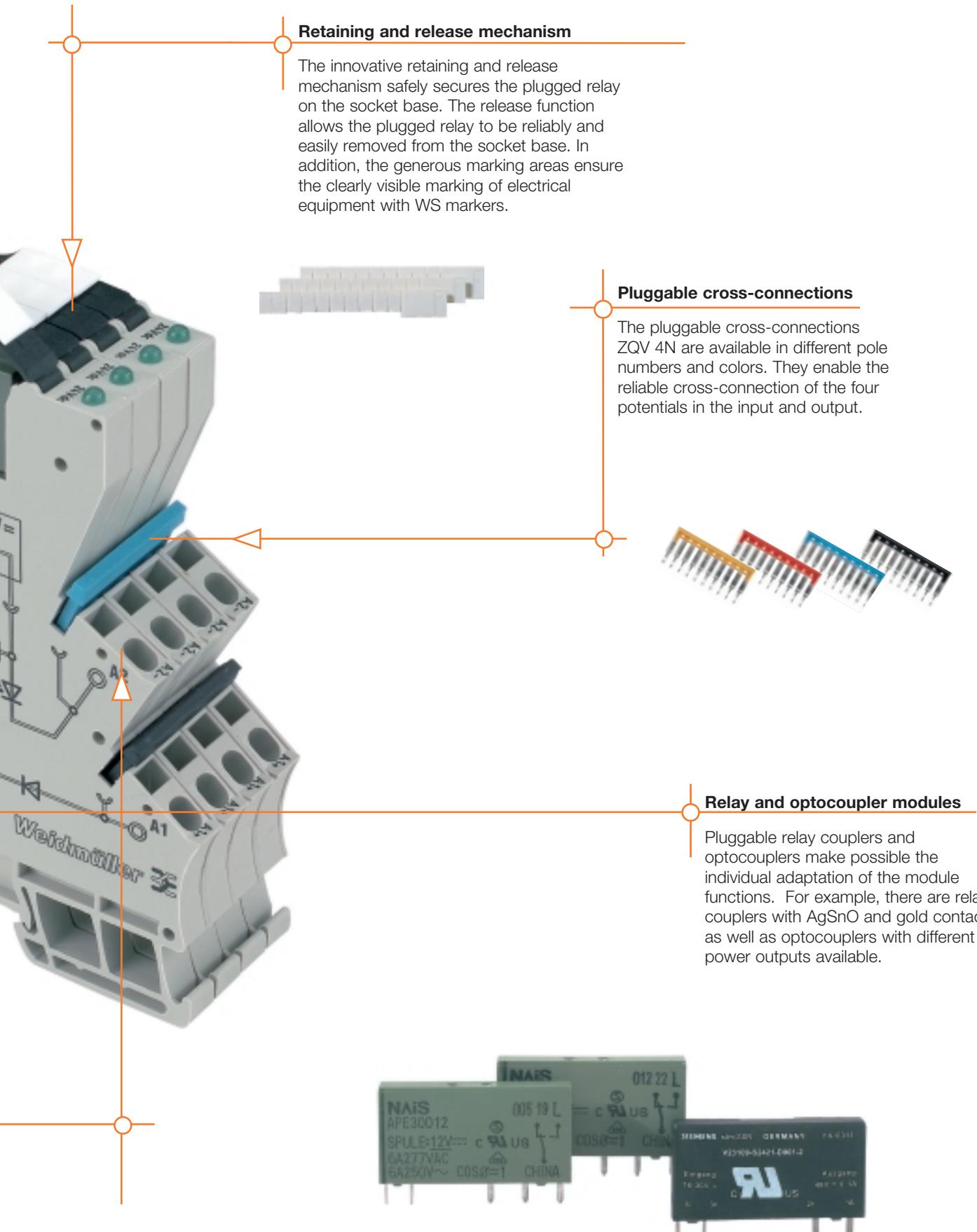
Coupling modules in terminal block format

The 6.1-mm mounting width favours the space-saving mounting of the **MICROSERIES** in applications in industrial automation. The **MICROSERIES** is particularly suitable when refitting or extending installations and machines. This is when they facilitate the optimum use of the limited space which exists in switchgear cabinets.



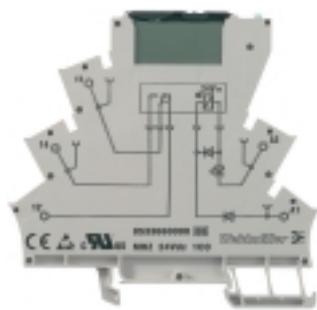
Connection

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.



Relay couplers in terminal block format

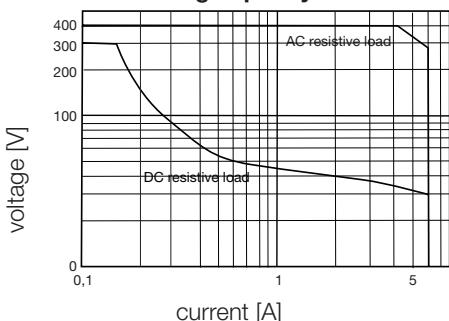
MICRORELAY MRS/MRZ



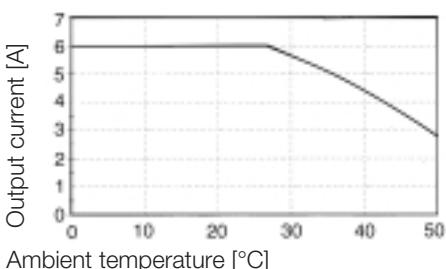
This module can be used a universal interface between the control and the actuator, for switching low and average sized loads.

- 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

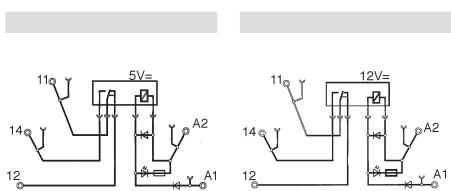


Derating curve



MRS 5 Vdc 1CO MRZ 5 Vdc 1CO

MRS 12 Vdc 1CO MRZ 12 Vdc 1CO



Block diagram

Ordering data

for TS 35

Screw connection

Tension clamp connection

Type Cat. No.

MRS 5 Vdc 1CO 8556080000

MRZ 5 Vdc 1CO 8556150000

Type Cat. No.

MRS 12 Vdc 1CO 8556070000

MRZ 12 Vdc 1CO 8556140000

Technical data

Input

Input voltage	5 Vdc ± 20 % (4...6 V)	12 Vdc ± 20 % (9.6...14.4 V)
Input voltage ac with U_{Nenn}		
Input voltage dc with U_{Nenn}	38 .5 mA dc ± 10 %	17.2 mA dc ± 10 %
Input power	193 mW ± 10 %	210 mW ± 10 %
Making threshold , (typ.)	3.2 V / 21.6 mA	6.4 V / 8.4 mA
Cut-out threshold (typ.)	1.6 V / 8 mA	2.5 V / 2.4 mA
Status indicator	Green LED	Green LED
Reaction time at U_N (typ.)	6.2 ms	5.8 ms
Release at U_N (typ.)	3.9 ms	6.9ms
Voltage of relay coil	5 V	12 V

Functionality

Operating indication	yes	yes
Reverse polarity protection	yes	yes
Free wheel diode	yes	yes

Output

Switching voltage	1 changeover contact	1 changeover contact
ac: continuous current/switiching power (see derating diagram)	250 Vac acc. to VDE	250 Vac acc. to VDE
Switch-on current	240 Vac acc. to UL/CSA	240 Vac acc. to UL/CSA
dc: Continuous current/switiching power	max. 6 A / max. 1500 VA	max. 6 A / max. 1500 VA
Min. braking capacity	max. 6 A	max. 6 A
Contact material	see limit diagram	see limit diagram
Mechanical service life	12 V /100 mA	12 V /100 mA
Max. switching frequency at nominal voltage	AgSnO	AgSnO
Ambient temperature	20 x 10 ⁶ switching operations	20 x 10 ⁶ switching operations
Storage temperature	0.1 Hz	0.1 Hz
Climate	-25 °C...+50 °C	-25 °C...+50 °C
Approvals	-40 °C...+60 °C	-40 °C...+60 °C
	40 °C / 93 % rel. humidity,	40 °C / 93 % rel. humidity,
	no condensation	no condensation

Insulation coordination acc. to EN 50178

Rated voltage	300 V	300 V
Rated impulse voltage	4 kV (1.2 / 50 µs)	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

Relay couplers in terminal block format

MRS 24 Vdc 1CO

MRS 24 Vuc 1CO

MRS 48 Vuc 1CO

MRS 60 Vdc 1CO

MRS 120 Vuc 1CO

MRS 230 Vac 1CO

MRZ 24 Vdc 1CO

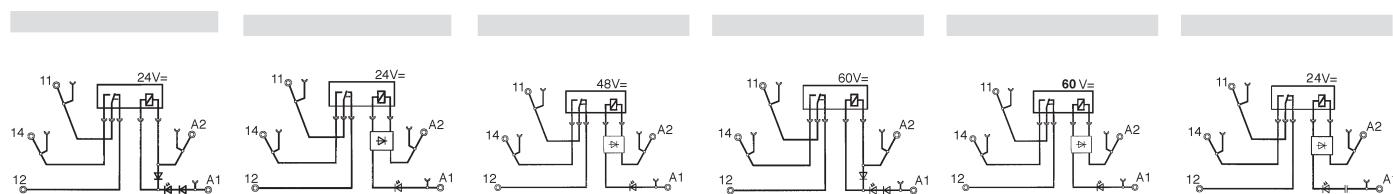
MRZ 24 Vuc 1CO

MRZ 48 Vuc 1CO

MRZ 60 Vdc 1CO

MRZ 120 Vuc 1CO

MRZ 230 Vac 1CO

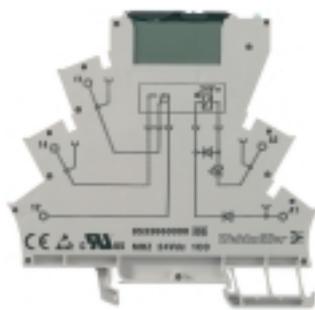


Type	Cat. No.	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.
MRS 24 Vdc 1CO	8533640000	MRS 24 Vuc 1CO	8556050000	MRS 48 Vuc1CO	8556040000	MRS 60 Vdc1CO	8556060000	MRS 120 Vuc 1CO	8556030000	MRS 230 Vac1CO	8556020000
MRZ 24 Vdc 1CO	8533660000	MRZ 24 Vuc 1CO	8556120000	MRZ 48 Vuc1CO	8556110000	MRZ 60 Vdc1CO	8556130000	MRZ 120 Vuc 1CO	8556100000	MRZ 230 Vac1CO	8556090000

24 Vdc $\pm 20\%$ (19.2...28.8 V)	24 Vuc $\pm 10\%$ (21.6...26.4 V)	48 Vuc $\pm 10\%$ (43.2...52.8 V)	60 Vdc $\pm 20\%$ (48...72 V)	120 Vuc $\pm 10\%$ (-15%...102...132 V)	230 Vac $\pm 10\%$ (207...253 V)
11 mA $\pm 10\%$	5 mA $\pm 20\%$	3.3 mA $\pm 20\%$	3.5 mA $\text{AAC} \pm 15\%$	7.6 mA $\pm 15\%$	
6.6 mAdc $\pm 10\%$	6.4 mA $\pm 20\%$	200 mW $\pm 10\%$	0.42 VA $\pm 15\%$	1.55 VA $\pm 15\%$	
160 mW $\pm 10\%$	154 mW $\pm 10\%$	190 mW $\pm 20\%$	0.42 VA $\pm 15\%$	1.55 VA $\pm 15\%$	
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
Green LED					
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					
250 Vac acc. to VDE	250 V ~ acc. to VDE	250 Vac acc. to VDE	250 V ~ 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 V ~ 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					
see limit diagram					
12 V / 100 mA					
AgSnO	AgSnO	AgSnO	AgSnO	AgSnO	AgSnO
20 x 10 ⁶ switching operations					
0.1 Hz					
-25 °C...+50 °C					
-40 °C...+60 °C					
40 °C / 93 % rel. humidity, no condensation	40 °C / 93 % rel. humidity, no condensation	40 °C / 93 % rel. humidity, no condensation	40 °C / 93 % rel. humidity, no condensation	40 °C / 93 % rel. humidity, no condensation	40 °C / 93 % rel. humidity, no condensation
300 V					
4 kV					
III	III	III	III	III	III
2	2	2	2	2	2
4 kV _{eff} / 1 min					
≥ 5.5 mm					

Relay couplers in terminal block format

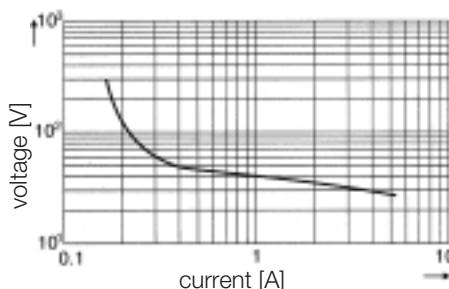
MICRORELAY MRS/MRZ



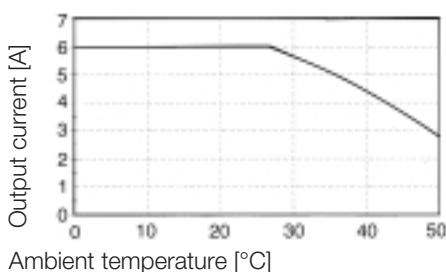
This module can be used a universal interface between the control and the actuator, for switching low and average sized loads.

- 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



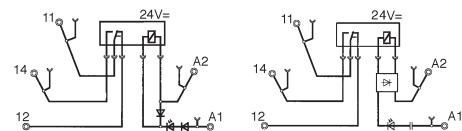
Derating curve



MRS 24 Vdc 1CO MRS 230 Vdc 1CO MRZ 24 Vdc 1CO MRZ 230 Vdc 1CO



Prinzipschaltbild



Ordering data

for TS 35
Screw connection
Tension clamp connection

Type	Cat. No.	Type	Cat. No.
MRS 24 Vdc 1CO	8596060000	MRS 230 Vac1CO	8596050000
MRZ 24 Vdc 1CO	8596080000	MRZ 230Vac1CO	8596070000

Technical data

Input

Input voltage	24 Vdc ± 20 % (19.2...28.8 V)	230 Vac ±10% (207...253 V)
Input voltage ac with U_{Nenn}		7.6 mA ±15%
Input voltage dc with U_{Nenn}	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 U_N (typ.)	6.6 ms	13 ms
Release at U_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

Switching voltage	1 changeover contact	1 changeover contact
ac: continuous current/switching power (see derating diagram)	250 Vac acc. to VDE	250 V ~ acc. to VDE
Switch-on current	240 Vac acc. to UL CSA	240 V ~ acc. to UL CSA
dc: Continuous current/switching power	max. 6 A / max. 1500 VA	max. 6 A / max. 1500 VA
Min. braking capacity (reference value)	max. 6 A	max. 6 A
Contact material	see limit diagram	see limit diagram
Mechanical service life	12 V / 10 mA 1)	12 V / 10 mA 1)
Max. switching frequency at nominal voltage	AgSnO 5µm Au	AgSnO 5µm Au
Ambient temperature	20 x 10 ⁶ switching operations	20 x 10 ⁶ switching operations
Storage temperature	0.1 Hz	0.1 Hz
Climate	-25 °C...+50 °C	-25 °C...+50 °C
Approvals	-40 °C...+60 °C	-40 °C...+60 °C

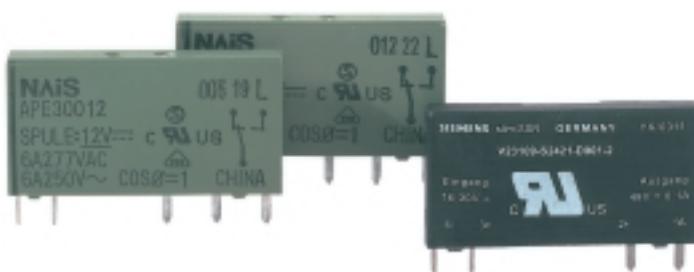
Insulation coordination acc. to EN 50178

Rated voltage	300 V	300 V
Rated impulse voltage	4 kV	4 kV
Oversupply 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

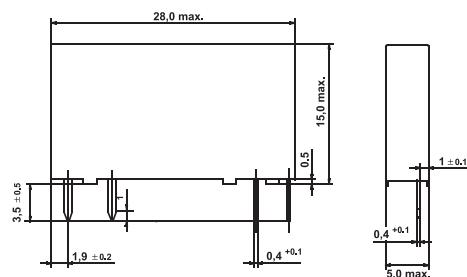
1) recommended load: µW to 0.25 W (depending from the load composition)
at 2.5 W the gold plate will last for app. 20,000 switching operations

MICRORELAY

Plugable Relays

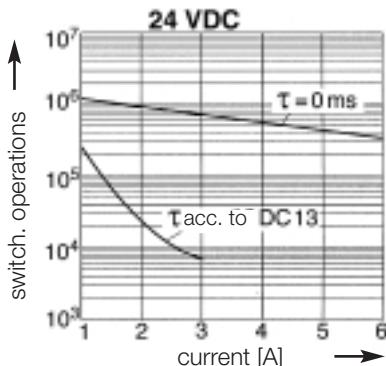
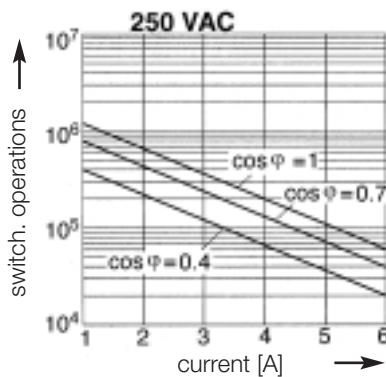


Dimensions



Contact service life

Material AgSnO₂



Pluggable relay

- Coil voltage 5 V, 1 changeover contact
- Coil voltage 12 V, 1 changeover contact
- Coil voltage 24 V, 1 changeover contact
- Coil voltage 48 V, 1 changeover contact
- Coil voltage 60 V, 1 changeover contact
- Coil voltage 24 V, 1 changeover contact, 5 µAU
- Coil voltage 60 V, 1 changeover contact, 5 µAU

Type NAIS APE...

Type NAIS APE...	Cat. No.	Qty.
... 30005V	4061580000	20
... 30012V	4061610000	20
... 30024V	4060120000	20
... 30048V	4061620000	20
... 30060V	4061630000	20
... 30124V	4061590000	20
... 30160V	4061600000	20

Technical data (of relay manufacturer)

- Contact number and type
- Contact version
- Switching current
- Switching voltage / max. Switching voltage
- Braking capacity
- Contact material / recommended min. load
- Typ. bounce time NO contact
- Typ. bounce time normally closed contact

1 changeover contact

Single contact

6 A

300 Vdc / 400 Vac

1500 VA

AgSnO₂ 12 V, 100 mA

AgSnO₂ 5µ Au 12 V, 10 mA 1)

1 ms

5 ms

Miscellaneous data

- Flammability class UL
- Ambient temperature
- Max. switching operations with rated load / without load
- Response / drop out time
- Bounce time NO contact / normally closed contact
- Protection class Housing
- For further data see also

V-0

-40 ... +85 °C

6/1200 switching operations per minute

5 / 2.5 ms

1.5 / 5 ms

IP 67

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

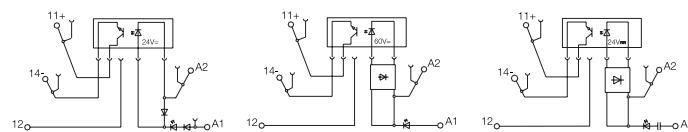
MOS 24 Vdc
MOZ 24 Vdc

MOS 120 Vuc
MOZ 120 Vuc

MOS 230 Vac
MOZ 230 Vac



Block diagram



Ordering data

Screw clamp version

Type

Cat. No.

VPE

MOS 24 Vdc/24 Vdc 0.1 A
8607340000 10

Type

Cat. No.

VPE

MOS 120 Vuc/24 Vdc 0.1 A
8607690000 10

Type

Cat. No.

VPE

MOS 230 Vac/24 Vdc 0.1 A
8607710000 10

Tension clamp version

Type

Cat. No.

VPE

MOZ 24 Vdc/24 Vdc 0.1 A
8607360000 10

Type

Cat. No.

VPE

MOZ 120 Vuc/24 Vdc 0.1 A
8607730000 10

Type

Cat. No.

VPE

MOZ 230 Vac/24 Vdc 0.1 A
8607750000 10

Technical data

Input

Input voltage

24 Vdc ± 20%

120 Vuc + 10/-15%

230 Vac ± 10%

Input current dc

5.7 mA ± 10%

2.8 mA DC (2.5 mA... 3.1 mA)

Input current ac

3.4 mA AC (2.8 mA... 4 mA)

Input power dc

340 mW ± 20%

Input power ac

0.4 VA + 20%

Switch- on point dc

typ. 15 V/3.5 mA

typ. 6.7 V/0.9 mA

typ. 78 V/3.1 mA

Switch- on point ac

typ. 69 V/1.4 mA

typ. 63 V/0.76 mA

typ. 77 V/3.0 mA

Switch- off point dc

typ. 15 V/3.5 mA

typ. 63 V/0.76 mA

typ. 77 V/3.0 mA

Switch- off point ac

typ. 64 V/0.86 mA

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

Switching voltage

Bipolarer Transistor

Bipolarer Transistor

Bipolarer Transistor

continuous current/ switching capacity

3 V...48 Vdc

3 V...48 Vdc

3 V...48 Vdc

On state voltage drop

max. 0.1 A

max. 0.1 A

max. 0.1 A

Response time

max. 1V

max. 1V

max. 1V

Open time

<35 us

<6.5 ms

<6.5 ms

max. switching frequency at nom. load

300 Hz

<10 ms

<10 ms

Attention

A free- wheeling diode at the load protects the output circuit efficiently

A free- wheeling diode at the load protects the output circuit efficiently

A free- wheeling diode at the load protects the output circuit efficiently

Insulation coordination/ safe isolation acc to EN 50178, 04/98

Rated voltage

300 V

300 V

300 V

Rated surge voltage

4 kV

4 kV

4 kV

Overtoltage category

III

III

III

Pollution degree

2

2

2

Voltage proof I/O to mounting rail

≥ 5.5mm

≥ 5.5mm

≥ 5.5mm

Achieved clearance and creepage distance

2.5 kV_{eff}

2.5 kV_{eff}

2.5 kV_{eff}

General data

Ambient temperature

-25...+50 °C

-25...+50 °C

-25...+50 °C

Storage temperature

-40 °C...+60 °C

-40 °C...+60 °C

-40 °C...+60 °C

Operation conditions

40 °C / 93 % rel. humidity,
without dewing

40 °C / 93 % rel. humidity,
without dewing

40 °C / 93 % rel. humidity,
without dewing

Approvals

CE cULus

CE cULus

CE cULus

*TU 20 °C

Opto-couplers in terminal block format

MICROOPTO
MOS/MOZ

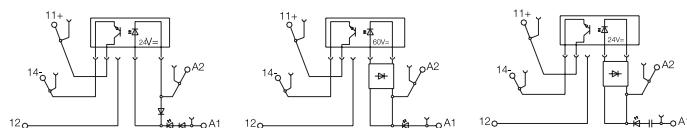
MOS 24 Vdc
MOZ 24 Vdc

MOS 120 Vuc
MOZ 120 Vuc

MOS 230 Vac
MOZ 230 Vac



Block diagram



Ordering data

	Type	Cat. No.	VPE	Type	Cat. No.	VPE	Type	Cat. No.	VPE
Screw clamp version	MOS 24 Vdc/24 Vdc 2 A	8607350000	10	MOS 120 Vuc/24 Vdc 2 A	8607700000	10	MOS 230 Vac/24 Vdc 2 A	8607720000	10
Tension clamp version	MOZ 24 Vdc/24 Vdc 2 A	8607370000	10	MOZ 120 Vuc/24 Vdc 2 A	8607740000	10	MOZ 230 Vac/24 Vdc 2 A	8607760000	10

Technical data*

Input	MOS 24 Vdc/24 Vdc 2 A	MOS 120 Vuc/24 Vdc 2 A	MOS 230 Vac/24 Vdc 2 A
Input voltage	24 Vdc ± 20%	120 Vuc + 10/-15%	230 Vac ± 10%
Input current dc	5.7 mA ± 10%	2.8 mA(2.5mA...3.1mA)	7.4 mA + 10%
Input current ac		3.4 mAac (2.8mA...4mA)	
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	typ. 130 V/4.9 mA
Switch- on point ac		typ. 69V/1.4mA	
Switch- off point dc	typ. 15 V/3.5 mA	typ. 63V/0.76mA	typ. 126 V/4.8 mA
Switch- off point ac		typ. 64V/0.86mA	
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
Attention	A free- wheeling diode at the load protects the output circuit efficiently	A free- wheeling diode at the load protects the output circuit efficiently	A free- wheeling diode at the load protects the output circuit efficiently

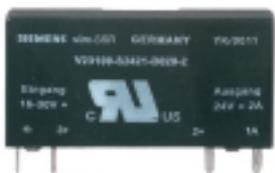
Insulation coordination/ safe isolation acc to EN 50178, 04/98

	MOS 24 Vdc/24 Vdc 2 A	MOS 120 Vuc/24 Vdc 2 A	MOS 230 Vac/24 Vdc 2 A
Rated voltage	300 V	300 V	300 V
Rated surge voltage	4 kV	4 kV	4 kV
Oversupply category	III	III	III
Pollution degree	2	2	2
Voltage proof I/ O to mounting rail	≥ 5.5mm	≥ 5.5mm	≥ 5.5mm
Achieved clearance and creepage distance	2.5 kV _{eff}	2.5 kV _{eff}	2.5 kV _{eff}

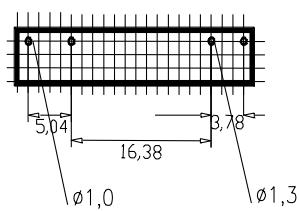
General data

	MOS 24 Vdc/24 Vdc 2 A	MOS 120 Vuc/24 Vdc 2 A	MOS 230 Vac/24 Vdc 2 A
Ambient temperature	-25...+50 °C	-25...+50 °C	-25...+50 °C
Storage temperature	-40 °C...+60 °C	-40 °C...+60 °C	-40 °C...+60 °C
Operation conditions	40 °C / 93 % rel. humidity, without dewing	40 °C / 93 % rel. humidity, without dewing	40 °C / 93 % rel. humidity, without dewing
Approvals			
*TU 20 °C			

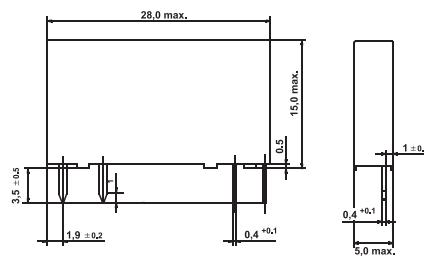
Plugable Solid-State-Relay



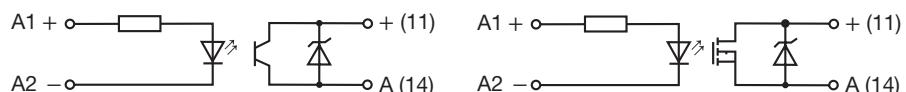
Print figure



Dimensions



Schematic circuit diagram



Ordering data

	Type	Cat. No.		Type	Cat. No.		Type	Cat. No.		Type	Cat. No.
SSS Relays24V / 24V 0.1Adc	4061180000		...60V / 24V 0.1Adc	4061230000		..24V / 24V 2Adc	4061190000		...60V / 24V 2Adc	4061200000

Technical data*

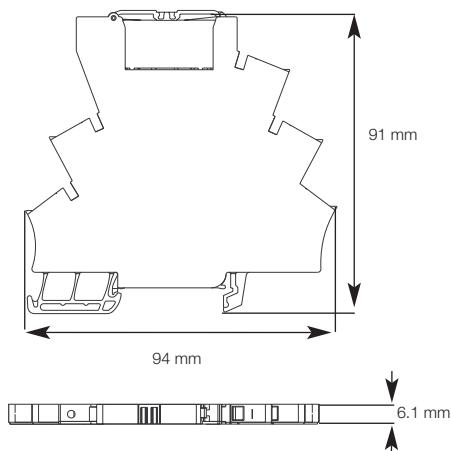
Input	Minimum Control Voltage	16Vdc	52 Vdc	18 Vdc	35 Vdc	
Nominal Control Volatge	24Vdc	60 Vdc	24 Vdc	60 Vdc	72 Vdc	
Maximum Control Voltage	30 Vdc	72 Vdc	30 Vdc	72 Vdc	33 Vdc	
Control Current @ U _{IN} =24V	7 mA ± 10%	2.8 mA ± 10%	7 mA ± 10%	3 mA ± 10%	3 mA ± 10%	
Release Voltage	10 Vdc	40 Vdc	10 Vdc	20 Vdc	20 Vdc	
Control Circuit Resistance	ca. 4 kOhm	ca. 20 kOhm	ca. 3.2 kOhm	ca. 16 kOhm	ca. 16 kOhm	
Output	Bipolarer Transistor	Bipolarer Transistor	MOS-FET	MOS-FET		
Load voltage	3...48 Vdc	3...48 Vdc	3...33 Vdc	3...33 Vdc		
switching/continuous current @ U _A >5Vdc	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	-20 °C...+60 °C	
Storage Temperature	-40 °C...+70 °C	-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	3.65 g	
Approvals						
*TU 20 °C						

For further data see <http://em.tycoelectronics.com>

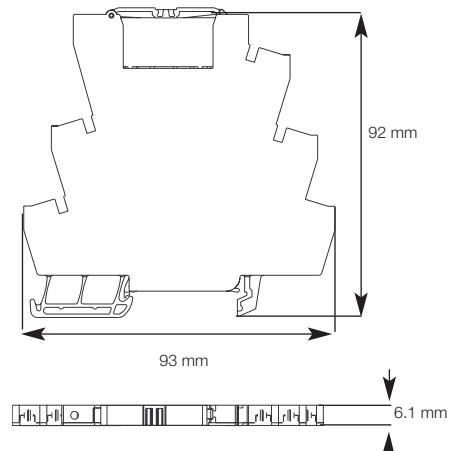
MICROSERIES

Accessories / General datas

Tension clamp version MRZ



Screw version MRS



General technical data

Clampable conductor:	
Solid H07V-U	mm ²
Fsolid H07V-K	mm ²
"* with ferrules acc. to DIN 46 228/1*	mm ²
"* with ferrules with plastic collar*	mm ²
Max. clampable range in mm ² /gauge pin acc. to IEC 60 947-1 Size	
Rated torque	
Continuous current of cross-connection 2-pole	A
Continuous current of cross-connection multipole	A
Insulation stripping length	mm
Protection class	
Housing material	
Flammability class UL 94	
Rated current	6 A
Rated voltage	250 V

Tension clamp version

Type	Cat. No.	Qty.
ZQV 4N / 2 GE	1758250000	60
ZQV 4N / 3 GE	1762630000	60
ZQV 4N / 4 GE	1762620000	60
ZQV 4N / 10 GE	1758260000	20
ZQV 4N / 41 GE	1758270000	10
ZQV 4N / 2 RT	1793950000	60
ZQV 4N / 3 RT	1793980000	60
ZQV 4N / 4 RT	1794010000	60
ZQV 4N / 10 RT	1794040000	20
ZQV 4N / 41 RT	1794070000	10
ZQV 4N / 2 BL	1793960000	60
ZQV 4N / 3 BL	1793990000	60
ZQV 4N / 4 BL	1794020000	60
ZQV 4N / 10 BL	1794050000	20
ZQV 4N / 41 BL	1794080000	10
ZQV 4N / 2 SW	1793970000	60
ZQV 4N / 3 SW	1794000000	60
ZQV 4N / 4 SW	1794030000	60
ZQV 4N / 10 SW	1794060000	20
ZQV 4N / 41 SW	1794090000	10

Screw version

Type	Cat. No.	Qty.
ZQV 4N / 2 GE	1758250000	60
ZQV 4N / 3 GE	1762630000	60
ZQV 4N / 4 GE	1762620000	60
ZQV 4N / 10 GE	1758260000	20
ZQV 4N / 41 GE	1758270000	10
ZQV 4N / 2 RT	1793950000	60
ZQV 4N / 3 RT	1793980000	60
ZQV 4N / 4 RT	1794010000	60
ZQV 4N / 10 RT	1794040000	20
ZQV 4N / 41 RT	1794070000	10
ZQV 4N / 2 BL	1793960000	60
ZQV 4N / 3 BL	1793990000	60
ZQV 4N / 4 BL	1794020000	60
ZQV 4N / 10 BL	1794050000	20
ZQV 4N / 41 BL	1794080000	10
ZQV 4N / 2 SW	1793970000	60
ZQV 4N / 3 SW	1794000000	60
ZQV 4N / 4 SW	1794030000	60
ZQV 4N / 10 SW	1794060000	20
ZQV 4N / 41 SW	1794090000	10

Markings

12 x 6 mm

Type	Cat. No.	Qty.
WS 12/6	1061160000	200

Type	Cat. No.	Qty.
WS 12/6	1061160000	200

Markers, Lasermark

15 x 6 mm, 484 Markers per sheet

Type	Cat. No.	Qty.
LM MT 300 15/6 ge	1686360000	10

Type	Cat. No.	Qty.
LM MT 300 15/6 ge	1686360000	10

Screwdriver

--

Type	Cat. No.	Qty.
SD 0.6 x 3.5 x 100	9008330000	10

Type	Cat. No.	Qty.
SD 0.6 x 3.5 x 100	9008330000	10

Advantages of the PLUGSERIES

The concept

PLUGSERIES is a product range for digital switching applications in industrial / process and building automation. The basis is an universal, socket base that is snapped on to mounting rails. Electromechanical and solid-state relays from different manufacturers can be combined to make complete functional units. The relay couplers **PLUGRELAY** can switch high-power ratings with up to 4 kVA of resistive loads. The solid-state relays **PLUGOPTO** are suitable for AC and DC applications.

Easy to plug in relays

Choice of connection technology: screw or tension clamp

Robustly designed retaining and release clip

Relays with one or two changeover contacts

Solid-state relays for AC and DC applications

Cross-connections reduce wiring

Cost saving

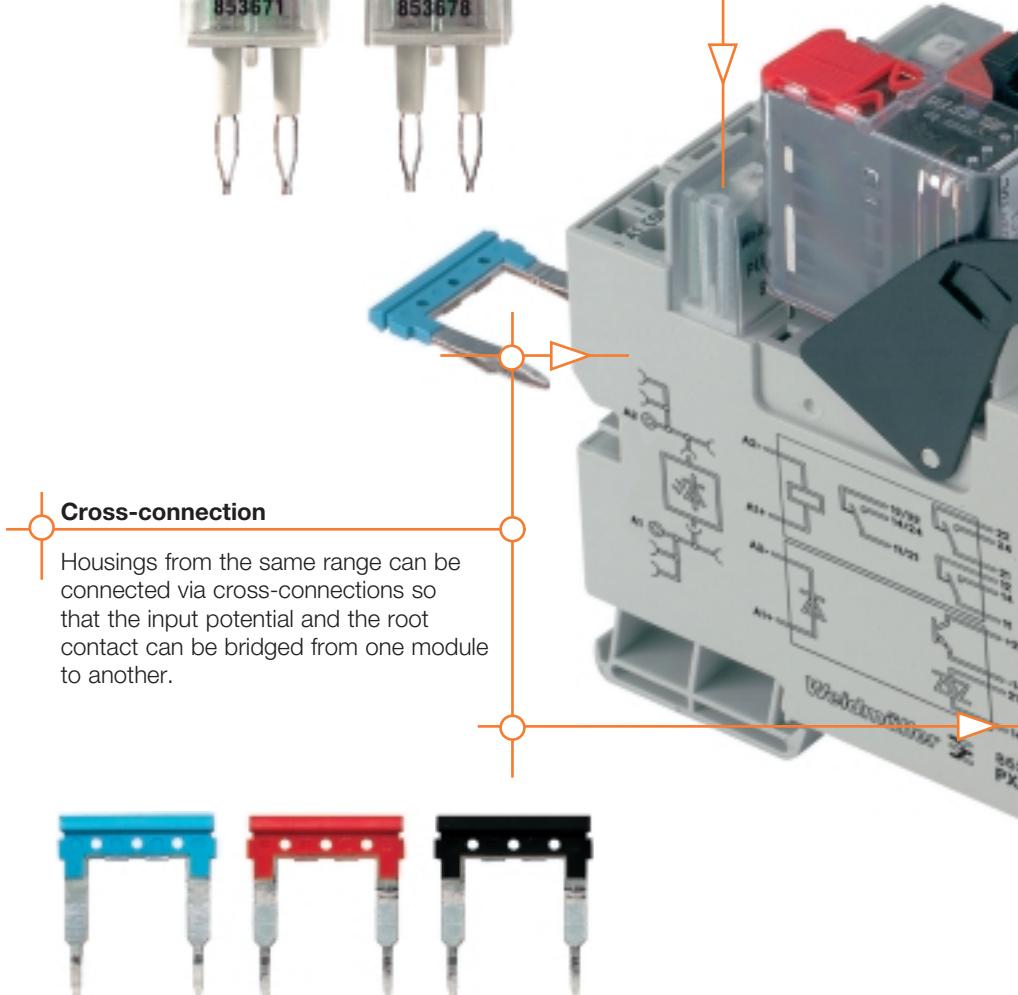
Service-friendly modular system

Pluggable LED indicators with free-wheeling diode

RC-combination to reduce influences of long wiring

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.



Contact material

Allround 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.

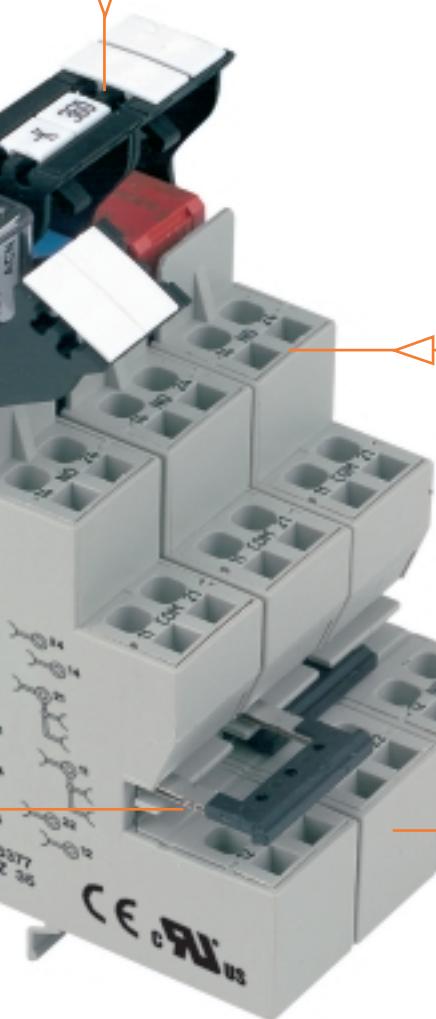
Securely mounted

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 standardised heights of 15.7 mm or 25.5 mm.



Connection

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



Modular principle

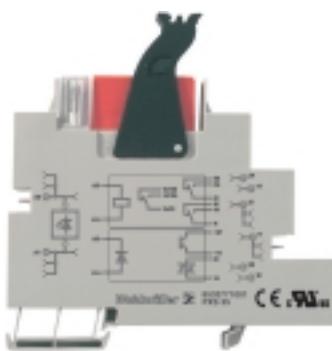
The **PLUGSERIES** is particularly service friendly. Commercially available relays can simply be plugged in, retaining and release clips guarantee that the modules are securely mounted, LED indicators with free-wheeling diodes can simply be plugged. The distinguishing features of the **PLUGSERIES** is its economical price 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 V DC and 4 A at 230 V AC can be safely switched.



Relay coupler PLUGRELAY



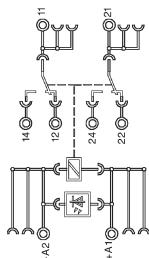
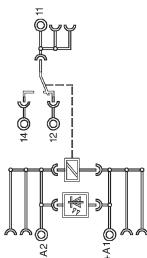
PRZ/PRS



PRZ/PRS



PRS/PRZ xxx 1CO 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 root-contacts cross-connectable with cross-connection type ZQV 2.5 N
- Available as complete module or as spare parts

DC-Version

Type/Version	Cat. No.	Qty.
Screw connection		
PRS 12Vdc LD 1CO	8536471001	10
PRS 12Vdc LD 2CO	8536501001	10
PRS 24Vdc LD 1CO	8530621001	10
PRS 24Vdc LD 2CO	8530631001	10
PRS 115Vdc LD 1CO	8536510000	10
PRS 115Vdc LD 2CO	8536520000	10
PRS 24Vdc LD 2CO SGR 282 with gold-plated relay contacts:	8596000000	10
PRS 24Vdc LD 2CO AU	8561760000	10
Tension clamp connection		
PRZ 12Vdc LD 1CO	8536571001	10
PRZ 12Vdc LD 2CO	8536591001	10
PRZ 24Vdc LD 1CO	8530691001	10
PRZ 24Vdc LD 2CO	8530701001	10
PRZ 115Vdc LD 1CO	8536610000	10
PRZ 115Vdc LD 2CO	8536630000	10
PRZ 24Vdc LD 2CO SGR 282 with gold-plated relay contacts:	8595970000	10
PRZ 24Vdc LD 2CO AU	8552440000	10
Other variants on request		
Technical data		
Input voltage	12 V dc ... 24Vdc ... 115Vdc	
Rated consumption, typ.	400 mW	
Status indicator	pluggable LED-housing, green LED	
Output		
Contact version	1 x CO / 2 x CO	
Max. output voltage	250Vuc	
Max. switching current	16A / 2 x 8A	
Continuous current	10A	
Rated breaking capacity	4kVA / 2 x 2kVA	
Service life, mech.	30 x 10 ⁶	
Input/output		
Clearance and creepage path	> 8mm	
Protective separation	DIN VDE 0106 T. 101	
Dielectric strength	> 4 kV _{eff}	
Insulation coordinates acc. to EN 50178	III / 2	
Miscellaneous data		
Ambient temperature	-40 °C ... +50 °C	
Protection class	IP 20	
Rated cross-section	0.5...2.5 mm ² (22 to 14 AWG)	
Flammability class UL	V-0	
Relay type	Schrack RT1 / RT2	
Dimensions (w x h x l)	15.3 x 92 x 87/95 mm	
Approvals	CE, UL recognized, cULus	
Rail mounted	TS 35	
Accessories		
Cross-connection	2-pole black	ZQV 2.5N/4-2 SW 1784270000 60
	2-pole red	ZQV 2.5N/4-2 RT 1784280000 60
	2-pole blue	ZQV 2.5N/4-2 BL 1784290000 60
Marking tags		
WS 10/5	1060860000	
WS 15/5	1609880000	

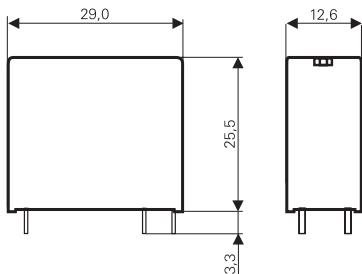
AC-Version

Type/Version	Cat. No.	Qty.
Screw connection		
PRS 24Vac LD 1CO	8536530000	10
PRS 24Vac LD 2CO	8536560000	10
PRS 120Vac LD 1CO	8530641001	10
PRS 120Vac LD 2CO	8530661001	10
PRS 230Vac LD 1CO	8530671001	10
PRS 230Vac LD 2CO	8530681001	10
with gold-plated relay contacts:		
PRS 24Vdc LD 2CO AU	8595960000	10
PRS 230Vac LD 2CO AU	8595990000	10
Tension clamp connection		
PRZ 24Vac LD 1CO	8536651001	10
PRZ 24Vac LD 2CO	8536681001	10
PRZ 120Vac LD 1CO	8530710000	10
PRZ 120Vac LD 2CO	8530720000	10
PRZ 230Vac LD 1CO	8530731001	10
PRZ 230Vac LD 2CO	8530741001	10
with gold-plated relay contacts:		
PRZ 120Vac LD 2CO AU	8575940000	10
PRZ 230Vac LD 2CO AU	8575950000	10
Other variants on request		
Technical data		
Input voltage	24Vac ...120Vac ... 230Vac	
Rated consumption, typ.	0.75 VA	
Status indicator	pluggable LED-housing, green LED	
Output		
Contact version	1 x CO / 2 x CO	
Max. output voltage	250 Vuc	
Max. switching current	16A / 2 x 8A	
Continuous current	10A	
Rated breaking capacity	4kVA / 2 x 2kVA	
Service life, mech.	5 x 10 ⁶	
Input/output		
Clearance and creepage path	> 8mm	
Protective separation	DIN VDE 0106 T. 101	
Dielectric strength	> 4 kV _{eff}	
Insulation coordinates acc. to EN 50178	III / 2	
Miscellaneous data		
Ambient temperature	-40 °C ... +50 °C	
Protection class	IP 20	
Rated cross-section	0.5...2.5 mm ² (22 to 14 AWG)	
Flammability class UL	V-0	
Relay type	Schrack RT1 / RT2	
Dimensions (w x h x l)	15.3 x 92 x 87/95 mm	
Approvals	CE, UL recognized, cULus	
Rail mounted	TS 35	
Accessories		
Cross-connection	2-pole black	ZQV 2.5N/4-2 SW 1784270000 60
	2-pole red	ZQV 2.5N/4-2 RT 1784280000 60
	2-pole blue	ZQV 2.5N/4-2 BL 1784290000 60
Marking tags		
WS 10/5	1060860000	
WS 15/5	1609880000	

Relay coupler PLUGRELAY

Accessories Pluggable relay types

Dimensions for RP 3SL



RP 3SL Relays for high inrush current



ELESTA SGR Relays with test button



Pluggable relay

24 Vdc 1 changeover contact with test button

24 Vdc 2 changeover contacts with test button

24 Vdc 1 normally-open contact

Technical data

Contact number and type

Contact material

Switching current

Peak inrush current

Switching voltage

Breaking capacity

Min. switching current / breaking capacity

Rated consumption

Dielectric strength coil / contact

Response / drop out time: DC coil

Bounce time NO contact/NC contact

Mechanical service life: DC coil

Miscellaneous data

Protection class

Flammability class UL

Ambient temperature DC coil

Weight

Approvals

Type **Schrack RP 3SL**

Cat. No.

Qty.

Type **ELESTA SGR**

Cat. No.

Qty.

SGR 662 24 Vdc T **8550510000**

10

SGR 282 24 Vdc T **8550520000**

10

RP3SL 24 Vdc 1NO **8588510000**

20

1 normally-open contact

AgSnO₂

25 A

120 A / 20 ms

250 V

4 kVA

500 mW

4 kV

typ. 8/2 ms

typ. 2 ms

30 x 10⁶ switching operations

2 changeover contacts with test button

AgCuNi

16 A 1Co/2 x 8 A 2Co

250 Vac

4 kVA

10 mA /100 mW

500 mW

5 kV

typ. 10/3 ms

typ. 0.5/5 ms

> 30 x 10⁶ switching operations

IP 40

V-1

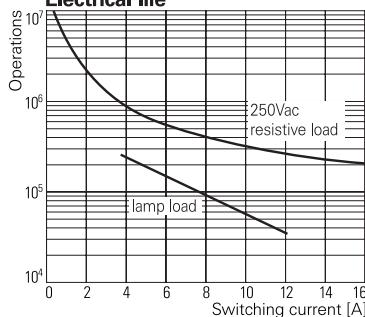
-25°C ... +70°C

20 g

PTB, SEV

Power relay RP 3SL

Electrical life



Contact service life

Type Load switch. oper. Regulation

RP3SL 12 A, 250 V~, cosφ=1 3x10⁵

RP3SL TV 8 25x10³ UL 508

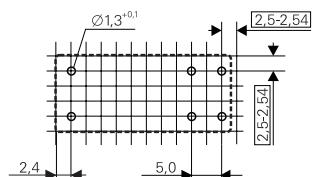
RP3SL 2500 W, 230 V~, halogen lamps >10⁴

RP3SL 1000 W, 250 V~, glow lamps 2.3x10⁵

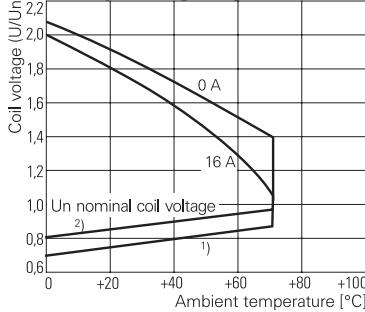
RP3SL 3000 W, 250 V~, glow lamps 3.6x10⁴

RP3SL 1500 VA, fluorescent tubes 163 µF 10⁴

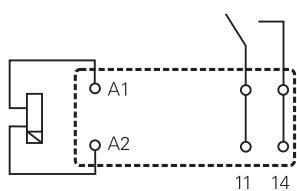
Print figure / Relay type RP 3SL



Coil operating range DC



Circuit diagram / Relay type RP 3SL

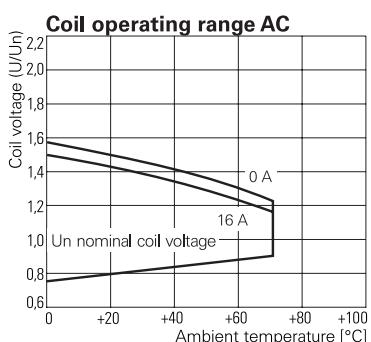
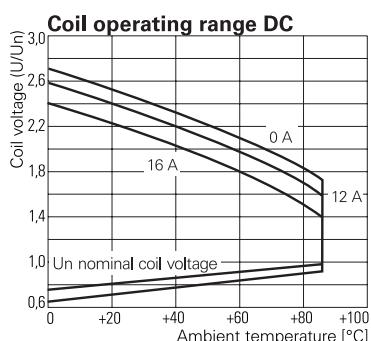
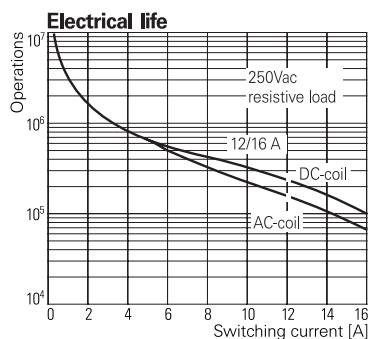
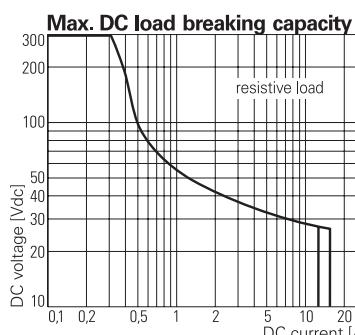


Relay coupler PLUGRELAY

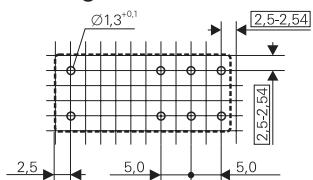
Accessories Pluggable relay types

SCHRACK RT1

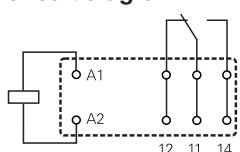
1 changeover contact



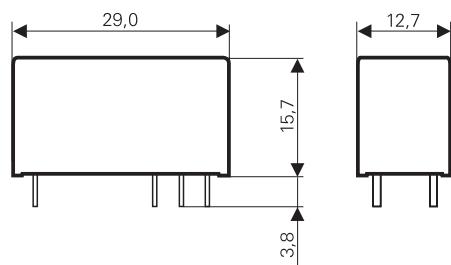
Print figure



Circuit diagram



Dimensions



Pluggable relay

12 Vdc 1 changeover contact

Type **Schrack RT** Cat. No.

RT 314012 **4058470000**

Qty.

20

24 Vdc 1 changeover contact

RT 314024 **4058480000**

20

24 Vdc 1 changeover contact AU

RT 315024 **4058490000**

20

48 Vdc 1 changeover contact

RT 314048 **4058740000**

20

110 Vdc 1 changeover contact

RT 314110 **4058500000**

20

110 Vdc 1 changeover contact AU

RT 315110 **4065800000**

20

24 Vac 1 changeover contact

RT 315524 **4058510000**

20

115 Vac 1 changeover contact

RT 314615 **4058520000**

20

115 Vac 1 changeover contact AU

RT 315615 **4058530000**

20

230 Vac 1 changeover contact

RT 314730 **4058540000**

20

230 Vac 1 changeover contact AU

RT 315730 **4058550000**

20

Technical data

Contact number and type

1 changeover contact

Contact material

AgNi 90/10, AgNi 0.15 htv

Switching current

16 A 1Co

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:

typ. 7/3 ms

AC coil

9/45 ms

Bounce time NO contact/NC contact

typ. 1/3 ms

Mechanical service life:

> 30 x 10⁶ switching operations

DC coil

> 10 x 10⁶ switching operations

AC coil

1.25A, L/R = 80 ms 2.3 x 10⁶

Breaking capacity

1.25A, L/R = 80 ms 2.8 x 10⁶

1-pole DC 13

1.2A, cosL/R = 0.3 6050x

2-pole DC 13

2-pole AC 15

Miscellaneous data

Protection class

IP 40

Flammability class UL

V-0

Ambient temperature

-40°C ... +85°C

DC coil

-40°C ... +70°C

AC coil

Weight

14 g

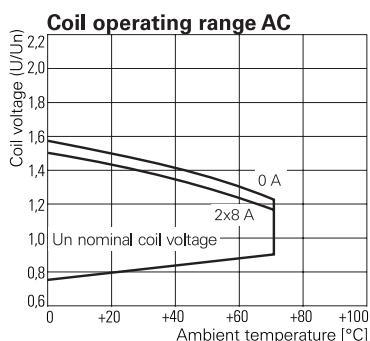
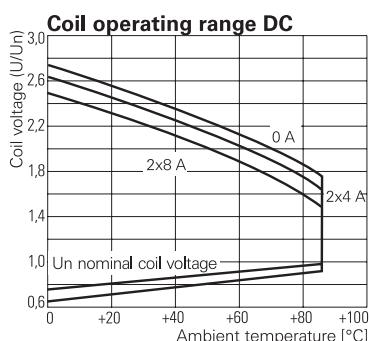
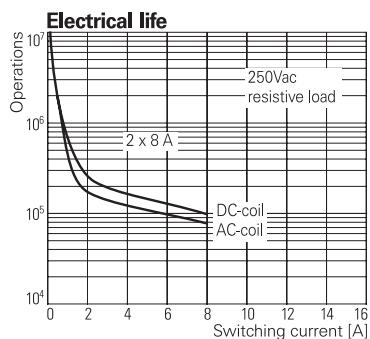
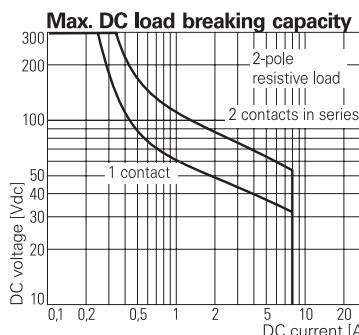
Approvals

BEAB

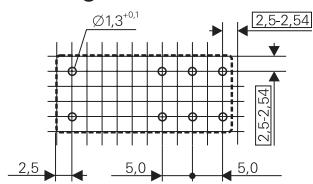
Relay coupler PLUGRELAY

Accessories Pluggable relay types

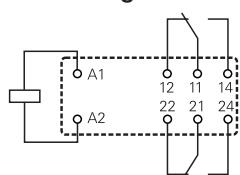
SCHRACK RT2 2 changeover contacts



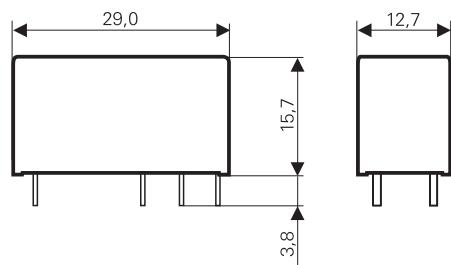
Print figure



Circuit diagram



Dimensions



Pluggable relay

Type	Schrack RT	Cat. No.	Qty.
12 Vdc 2 changeover contacts	RT 424012	4058560000	20
24 Vdc 2 changeover contacts	RT 424024	4058570000	20
24 Vdc 2 changeover contacts AU	RT 425024	4058580000	20
48 Vdc 2 changeover contacts	RT 424048	4058750000	20
60 Vdc 2 changeover contacts	RT 424060	4058760000	20
110 Vdc 2 changeover contacts	RT 424110	4058590000	20
24 Vac 2 changeover contacts	RT 424524	4058600000	20
115 Vac 2 changeover contacts	RT 424615	4058610000	20
115 Vac 2 changeover contacts AU	RT 425615	4058620000	20
230 Vac 2 changeover contacts	RT 424730	4058630000	20
230 Vac 2 changeover contacts AU	RT 425730	4058640000	20

Technical data

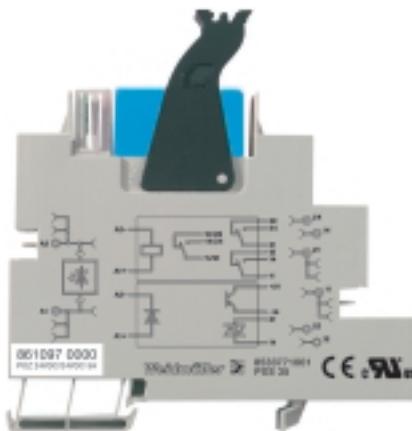
Contact number and type	2 changeover contacts
Contact material	AgNi 90/10, AgNi 0.15 htv
Switching current	2 x 8 A 2Co
Switching voltage	250 V ac
Breaking capacity	4 kVA
Min. switching current / breaking capacity	10 mA / 100 mW
Min. breaking capacity AU contact	40 µW
Rated consumption	400 mW dc / 0.75 VA ac
Dielectric strength coil / contact	5 kV
Response / drop out time:	typ. 7/3 ms
	DC coil
	AC coil
Bounce time NO contact/NC contact	9/45 ms
Mechanical service life:	typ. 1/3 ms
	> 30 x 10 ⁶ switching operations
	AC coil
Breaking capacity	> 5 x 10 ⁶ switching operations
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	-40°C ... +85°C
	-40°C ... +70°C
Weight	14 g
Approvals	CE BEAB

Solid State Relays PLUGOPTO

Complete module



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

Cat. No.	Type	input voltage	switching voltage	max. switching current	Qty.
Screw connection					
POS 24VDC/24VDC 2.5A	8610840000	24 Vdc	24 Vdc	2.5 A	10
POS 24VDC/230VAC 2.0A	8610860000	24 Vdc	230 Vac	2.0 A	10
POS 24VDC/24VUC 1.0A	8610890000	24 Vdc	24 Vuc	1.0 A	10
POS 24VDC/24VDC 5.0A	8610900000	24 Vdc	24 Vdc	5.0 A	10
POS 24VDC/230VAC 4.0A	8610910000	24 Vdc	230 Vac	4.0 A	10
POS 24VAC/24VDC 2.5A	8615600000	24 Vac	24 Vdc	2.5 A	10
POS 24VAC/24VDC 5.0A	8615620000	24 Vac	24 Vdc	5.0 A	10
POS 24VAC/230VAC 4.0A	8615580000	24 Vac	230 Vac	4.0 A	10
Tension clamp connection					
POZ 24VDC/24VDC 2.5A	8610920000	24 Vdc	24 Vdc	2.5 A	10
POZ 24VDC/230VAC 2.0A	8610930000	24 Vdc	230 Vac	2.0 A	10
POZ 24VDC/24VUC 1.0A	8610960000	24 Vdc	24 Vuc	1.0 A	10
POZ 24VDC/24VDC 5.0A	8610970000	24 Vdc	24 Vdc	5.0 A	10
POZ 24VDC/230VAC 4.0A	8610980000	24 Vdc	230 Vac	4.0 A	10
POZ 24VAC/24VDC 2.5A	8615640000	24 Vac	24 Vdc	2.5 A	10
POZ 24VAC/24VDC 5.0A	8615650000	24 Vac	24 Vdc	5.0 A	10
POZ 24VAC/230VAC 4.0A	8615630000	24 Vac	230 Vac	4.0 A	10

Other variants on request

DC version

Technical data
Input (typical values at 20 °C)
Input voltage min. AC/DC
Input voltage max. AC/DC
Input current min. AC/DC
Input current max. AC/DC
Drop out voltage AC/DC
Resistance
Input/output
Coupling
Electrical strength in-/output
Output
technical data
see page 21 and 22
Further technical data
Ambient temperature
Protection class
Rated connection
Relay type
Dimensions (w x h x l)
Approvals
Rail mounted
Accessories
Cross-connection
2-pole black
2-pole red
2-pole blue
Marking tags
WS 10/5 1060860000
WS 15/5 1609880000

AC version

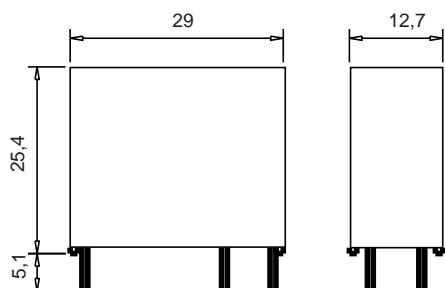
Technical data
Input (typical values at 20 °C)
Input voltage min. AC/DC
Input voltage max. AC/DC
Input current min. AC/DC
Input current max. AC/DC
Drop out voltage AC/DC
Resistance
Input/output
Coupling
Electrical strength in-/output
Output
technical data
see page 21 and 22
Further technical data
Ambient temperature
Protection class
Rated connection
Relay type
Dimensions (w x h x l)
Approvals
Rail mounted
Accessories
Cross-connection
2-pole black
2-pole red
2-pole blue
Marking tags
ZQV 2.5N/4-2 SW 1784270000 60
ZQV 2.5N/4-2 RT 1784280000 60
ZQV 2.5N/4-2 BL 1784290000 60
WS 10/5 1060860000
WS 15/5 1609880000

Solid State Relays PLUGOPTO

Accessories SSR Standard

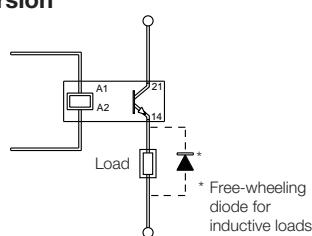


Dimensions

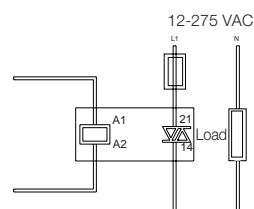


- Compact dimensions (29 x 25.4 x 12.7 mm)
- Combines to a complete functional unit with PLUGSERIES component housings PXS / PXZ, LED indicators PLED and retaining clip PRC
- Fully compatible with electromechanical standard relays
- Control voltage 24 VAC/DC
- Nominal switching voltage 24 VDC or 230 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	Cat. No.	Type	Cat. No.
SSR 24 VUC/24VDC 5A	8576350000	SSR 24 VUC/230VAC 4A	8576360000

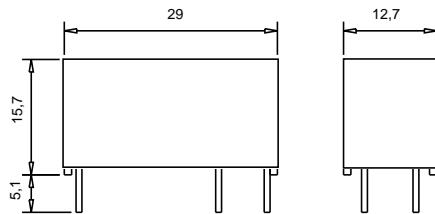
Technical data

	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	
Weight	approx 18 g	
Approvals	recognized	
Celduc	SPD07505	SPA07420

Solid State Relays PLUGOPTO

Accessories SSR / RT

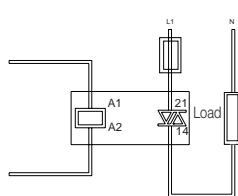
Dimensions



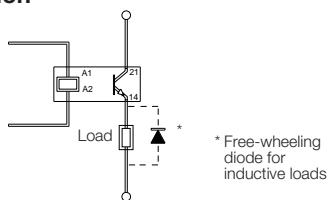
- Compact dimensions (29 x 15.7 x 12.7 mm)
- Combines to a complete unit with PLUGSERIES component housings PXS / PXZ, LED indicators PLED, and retaining clip PRC
- Fully compatible with electromechanical standard relay RT
- Control voltage 24 VAC/DC
- Nominal switching voltage 24 VDC, 24 VAC/DC or 230 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

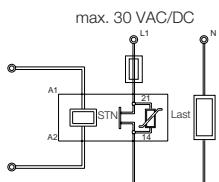
12-275 VAC



DC version



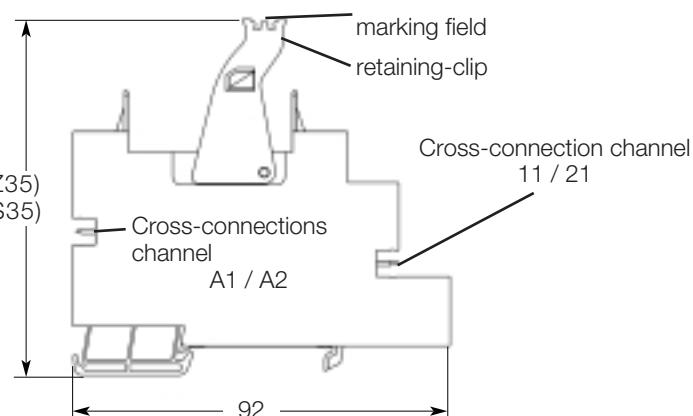
AC/DC version



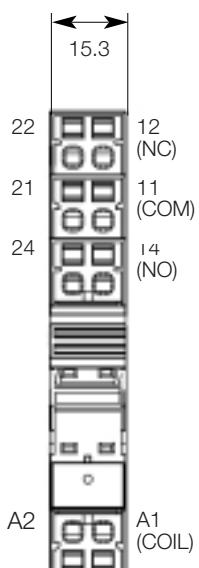
Ordering data	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.
	SSR 24 VUC/24VDC 2.5A	8576340000	SSR 24 VUC/230VAC 2A	8576370000	SSR 24 VUC/24VUC 1A	8576380000
Technical data	DC version		AC version		AC/DC version	
Input (typical values at 20 °C)						
Input voltage min. AC/DC	15 V		15 V		15 V	
Input voltage 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				12...275 V	
Switching-voltage range AC						
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	

Sockets for PLUGSERIES

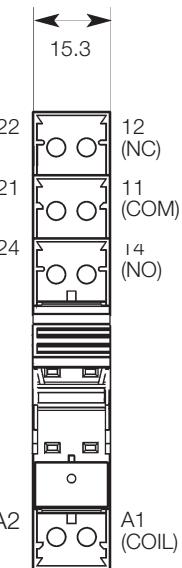
Accessories



Tension clamp

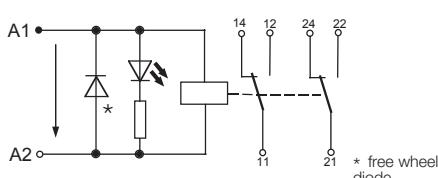


Screw connection

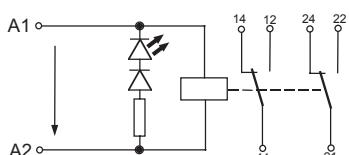


Operating indication

DC version



AC version



Empty base for rail mounted TS 35

Screw connection
Tension clamp connection

Type	Cat. No.	Qty.
PXS35	8533771001	10
PXZ35	8536691001	10

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 mm ²
Insulation stripping length	
- Screw connection	8 mm
- Tension clamp connection	10 mm
Ambient temperature	-40°C ... +60°C
Flammability class UL 94	V-0

Holding clamp

Type	Cat. No.	Qty.
PRC	8536700000	100

Operating indication

LED indicator with free-wheeling diode

6 ... 24 Vdc	PLED 24 Vdc	8536710000	20
6 ... 24 Vdc	PLED 24 Vdc red	8611010000	20
48 ... 60 Vdc	PLED 48 Vdc	8536720000	20
115 Vdc	PLED 115 Vdc	8536730000	20
12 ... 24 Vac	PLED 24 Vac	8536750000	20
115 Vac	PLED 120 Vac	8536760000	20
230 Vac	PLED 230 Vac	8536780000	20
230 Vac	PLED 230 Vac red	8611000000	20
RC combination 120...230 VAC/DC	PLRC 200 nF/200Ω	8566530000	20

Pluggable cross-connection

2-pole black	ZQV 2.5N/4-2SW	1784270000	60
2-pole red	ZQV 2.5N/4-2RT	1784280000	60
2-pole blue	ZQV 2.5N/4-2BL	1784290000	60

Marking tags

Type	Cat. No.	Qty.
WS 10/5	1060860000	200
WS 15/5	1609880000	96

Advantages of the PLUGSERIES for industrial use

The concept

The product family is specialized on digital switching applications in industrial, process and building automation. The basis is an universal, socket base that is snapped on to mounting rails. Industrial relays of different manufacture can be plugged in.

Easy to plug in relays

Compact dimension

Flexible, fully developed technology for excellent value

Choice of connection technology: screw or tension clamp

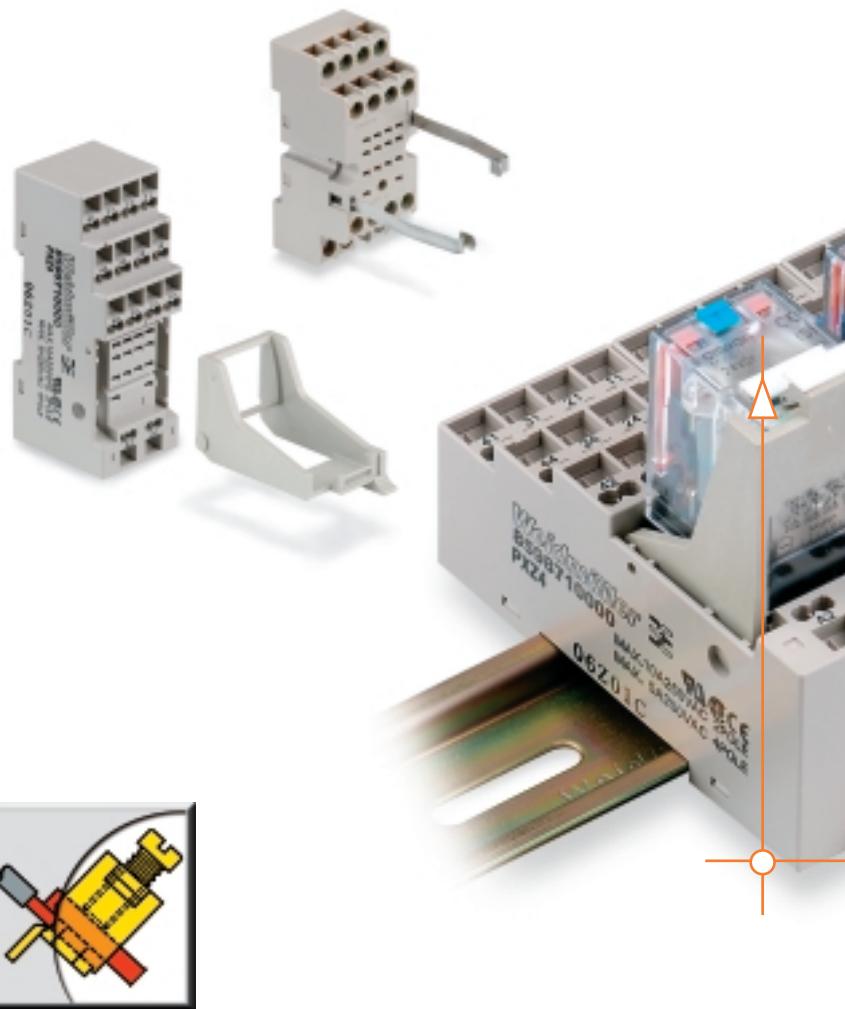
2 pole and 4 pole relays can be plugged in

Applicable wiring: 0.2...1.5 mm²

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

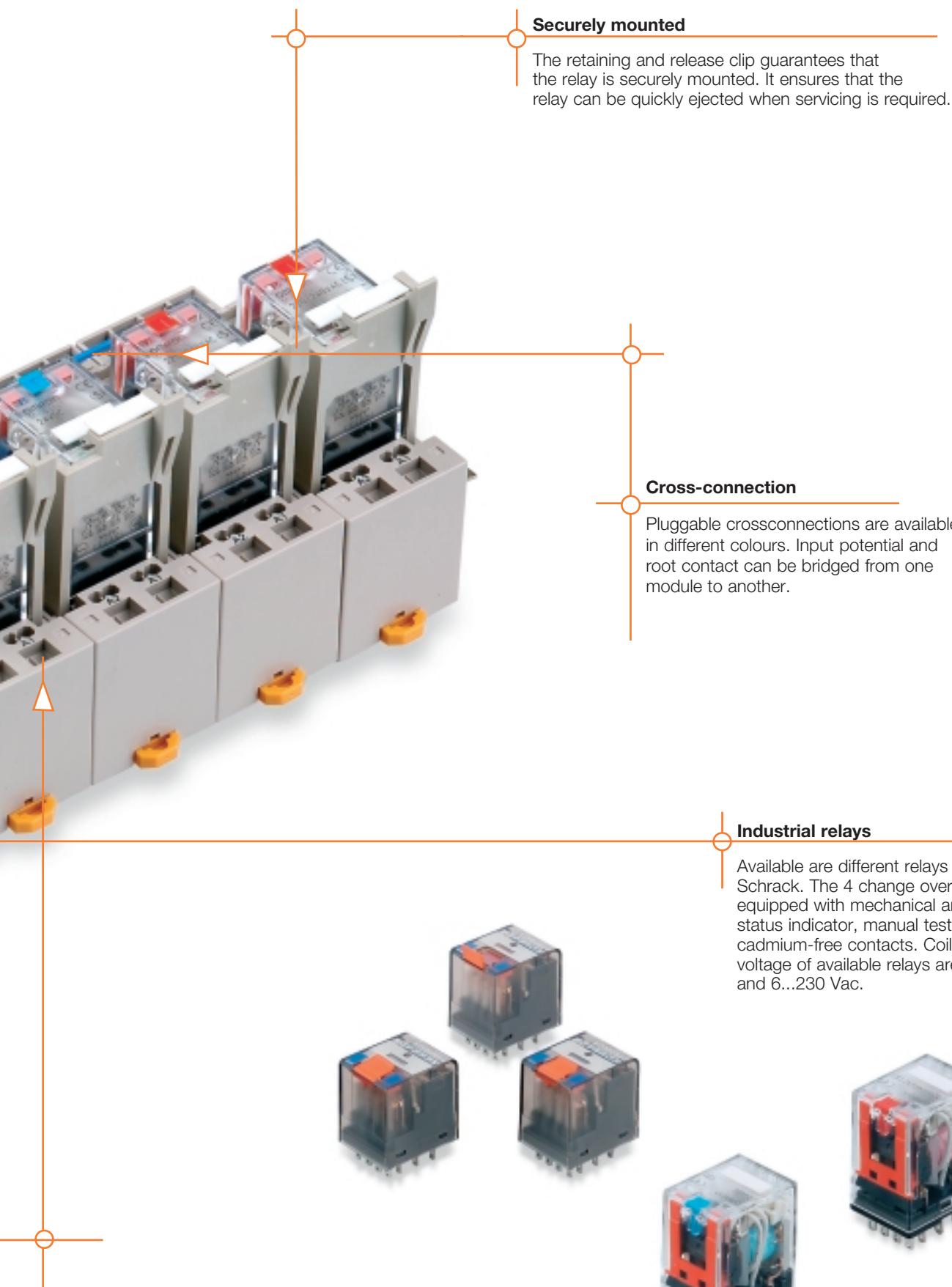
Modular principle

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



Connection

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



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
 - simple wiring procedure
 - two independent terminals for each contact
 - cross-connectable connection
 - isolated construction of coil and contact terminals

PXZ4



PXS4



Ordering data

Socket for mounting rail TS 35

Tension clamp connection

Screw connection

Type	Cat. No.	Qty.
PXZ4	8598710000	10
PXS4	8614350000	10

Technical data

Nominal current

5 A at 70 °C (with relay MY4)

Nominal voltage

250 Vac

Dielectric strength coil / contacts

2000 Vac

Clearance and creepage distance input-/output

2000 Vac

Protection class

IP 20

Applicable wire

0.2...1.5 mm² (AWG 24...16) two wiring units

Insulation stripping length

8 mm

Ambient temperature

max. 70 °C

Flammability class UL 94

V-1

Ordering data

Retaining clip

Relay, Typ: MY4

PXZ4-PIRC

8598610000

Relay, Typ: PT5

PT 28802

8572170000

Marker

only for PXZ4-PIRC

WS PXZ4

8598630000

Cross-connection

blue

ZQV PXZ4-bl

8611090000

red

ZQV PXZ4-rt

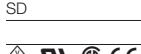
8611100000

Screwdriver

SD

9009030000

Approvals



Type

Cat. No.

Qty.

PXS4-PIRC

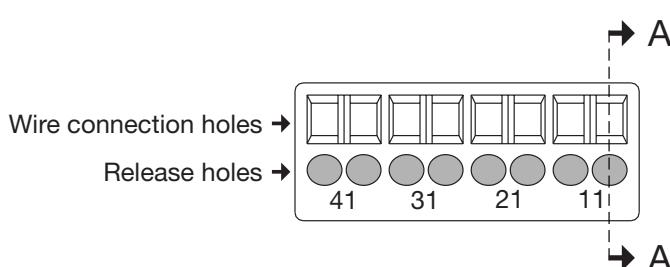
8633920000

100

none

Wiring procedure

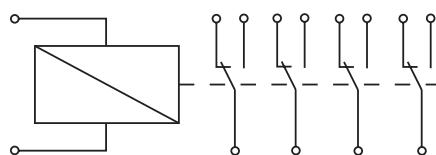
Insert the specified screwdriver into the round release hole located beside the wire connection hole where the wire is to be inserted.



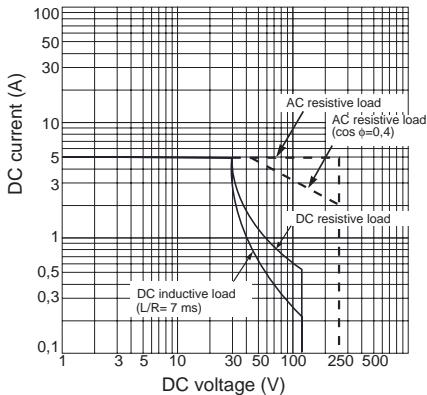
Miniature Power Relay MY4

- 4 change over contacts
- choice between DC- and AC input coil
- mechanical status indicator
- optical status indicator by 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

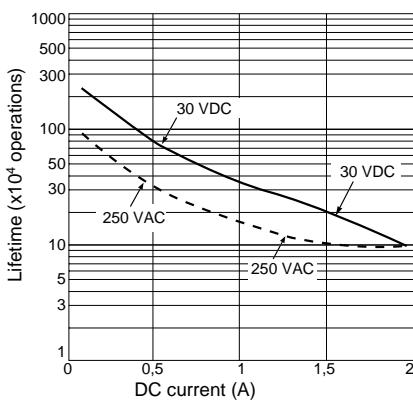
MY4 IN / MY4 IN1



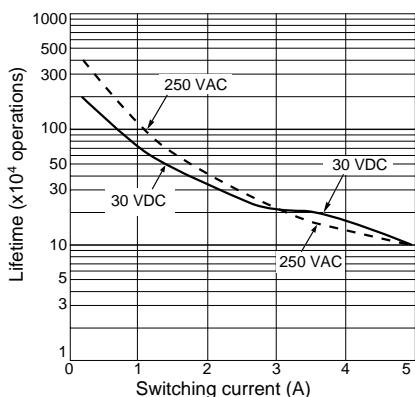
Breaking capacity



Lifetime (inductive load)



Lifetime (resistive load)



Ordering data

Type	Cat. No.	Qty.
MY4 IN1-12	8598660000	10
MY4 IN1-24	8598700000	10
MY4 IN1-110	8598640000	10
24 Vac	8598690000	10
120 Vac	8598650000	10
230 Vac	8598670000	10

additional relays on request

Technical data

Coil data

Nominal voltage	- DC coil	12 Vdc
	- AC coil	24 Vdc
Nominal coil power	- DC coil	110 Vdc
	- AC coil	
Response / drop-out time	- DC coil	24/110 V-
	- AC coil	24/120/230 V-

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
	- AC coil
Max. breaking capacity AC	125 V-
Switching current	250 V~
Minimum contact load	1250 VA

General data

Flammability class UL 94	V-2
Ambient temperature	-55...+70 °C
Mechanical lifetime	>10x10 ⁶
	>50x10 ⁶
Response / drop-out time	20 / 20 ms
Bounce time	max. 20 ms
Weight	35 g
Dimensions (width, height, length)	21.5 x 36 x 28 mm

Isolation

Dielectric strength coil - contacts	2000 Vac
Isolation acc. to IEC 664/VDE 0110 (1/89)	240 V
	2
	II
Isolation acc. to VDE 0110b (2/79)	A250 / B125

Accessories

Type	Cat. No.	Qty.
PXZ4	8598710000	10
PXS4	8614350000	10
PXZ4-PIRC	8598610000	50
PXS4-PIRC	8633920000	50
WS-PXZ4	8598630000	100
ZQV-PXZ4-bl	8611090000	50
ZQV-PXZ4-rt	8611100000	50

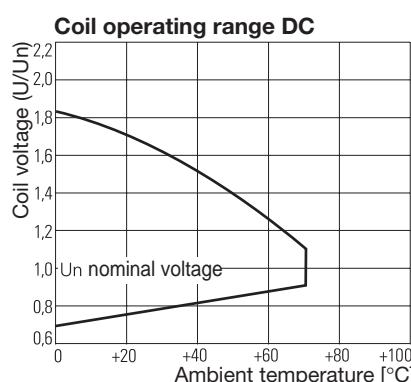
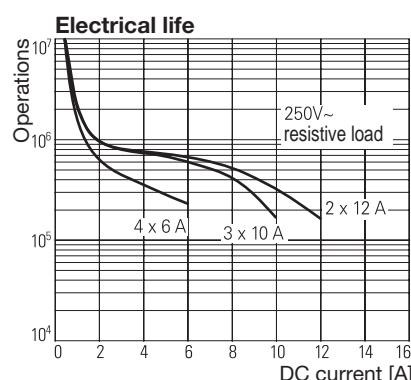
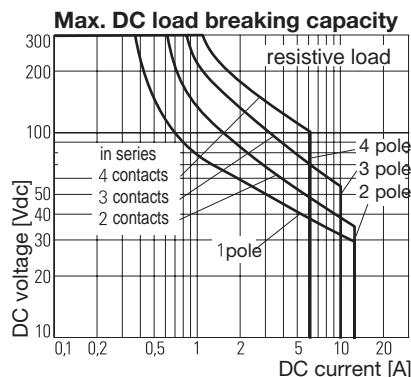
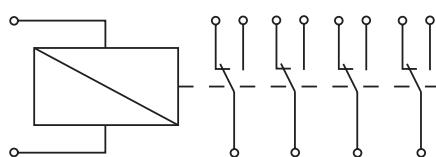
Approvals



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	Cat. No.	Qty.
PT 570006	8074650000	10
PT 570012	8054360000	10
PT 570024	1180700000	10
PT 570048	8074670000	10
PT 570060	8074680000	10
PT 570110	8074700000	10
PT 570220	8636230000	10
PT 570506	8074710000	10
PT 570512	8074730000	10
PT 570524	1181800000	10
PT 570548	1180900000	10
PT 570560	8074760000	10
PT 570615	1180800000	10
PT 570730	1181100000	10

additional relays on request

Technical data		
Coil data		
Nominal voltage	- DC coil	
	- AC coil	
Nominal coil power	- DC coil	
	- AC coil	
Pull-in voltage / Release voltage	- DC coil	
	- AC coil	
Operating range AC coil, 60 Hz to 70 °C		
Contact data		
Number of contacts		
Contact material	AgNi 90/10, AgNi 90/10 htv	
Rated current		
max. switching voltage		
max. breaking capacity AC		
Switching current		
Minimum contact load		
General data		
Flammability class UL 94	V-0	
Ambient temperature	-40...+70°C	
	-40...+70°C	
Mechanical lifetime	>30x10 ⁶	
	>20x10 ⁶	
Response / drop-out time	15 / 10 ms	
Bounce time	5 ms	
Weight	30 g	
Dimensions (width, height, length)	22.5 x 30 x 28 mm	
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		
- Retaining clip	Type Schrack	Cat. No.
	PT28802	8572170000
		Qty. 25
Approvals		

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 - **Australia**
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