Sensor isolation

Compact and powerful solid-state relays for isolation sensor signals

In order to reliably decouple sensor signals from the field, spacesaving and fast-switching coupling elements are required. We offer special solid-state relays for sensor isolation, as well as relay modules with gold-plated contacts for reliable switching of small currents and voltages, as they typically occur when switching sensor signals.

Solid-state relay for sensor isolation

As there is often a high number of switching cycles in sensor isolation, it makes sense to use solid-state relays. They have no mechanical wear and therefore work reliably in the long term. Our solid-state relays are extremely compact and, thanks to suitable accessories, enable quick installation. By using TERMSERIES interface adapters in conjunction with pre-assembled cables, the wiring time can be reduced further.

Electromechanical relays with gold contacts

In applications where sensor isolation is only carried out at longer intervals and with low power (< 30 V/10 mA), oxide layers can form on the contacts. This usually occurs in applications where signals are forwarded to control inputs or PLC systems. Due to the low loads, there is not enough light arcing at the contacts to remove the oxide layer during switching. Therefore, relay modules with oxidation-resistant gold contacts are used.

C.40 Weidmüller ₹ 2737920000





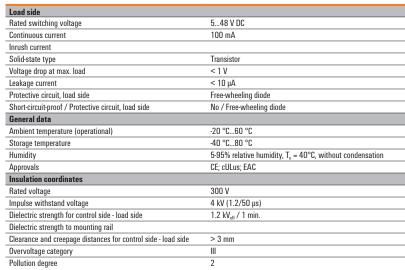
Visit our website for more information www.weidmueller.com/si

Solid-state relays 5...48 V DC / 100 mA Output versions

- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		ries and dimensioned drawings: ries page.	refer to the TERMOPTO

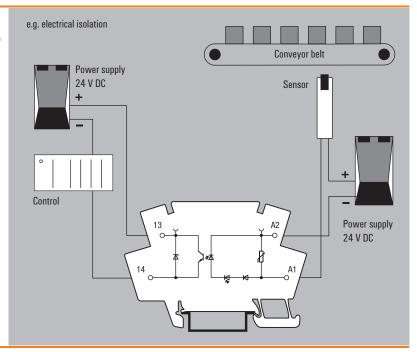
Applications

The **TERMOPTO** opto module is used in industrial applications in which electrical isolation and signal conditioning without switching amplification is sufficient.

The compact design in terminal-block format saves space on the rail and offers the option of a pluggable cross connection.

The choice between 10 input voltages and 3 output voltages,as well as screw or PUSH IN connection technology,gives 60 variations for different applications.

The integrated protective circuit ensures sufficient protection in applications with resistive, as well as slightly inductive and capacitive loads. For purely inductive, capacitive or comparable loads with high switch-on and switch-off peaks, such as solenoid valves or filament lamps, ensure that the module is dimensioned appropriately or an additional safeguard is used.



C.42 Weidmüller ₹ 2737920000

Solid-state relays 5...48 V DC / 100 mA Output versions

Ordering data 5 V DC Control side 5 V DC ±20 % Rated control voltage 7.7 mA DC Power rating 4 0 mW max. switching frequency (DC control voltage) 3000 Hz Status indicator Green LED Protective circuit Varistor, Reverse polarity protection PUSH IN connection Type Order No. PUSH IN connection Type Order No. Note 3950700000 TOP 5VDC/48VDC 0,1A 8950760000 3950760000 Note 220 V DC Control side 220 V DC Rated control voltage 1.65 mA DC Nominal control current ≤ 380 mW Power rating ≤ 380 mW max. switching frequency (DC control voltage) 500 Hz Status indicator Green LED Varistor, Reverse polarity protection Varistor, Reverse polarity protection Ordering data Varistor, Reverse polarity protection	12 V DC	24 V DC	4860 V DC	110 V DC
Rated control voltage Nominal control current Power rating max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Order No. PUSH IN connection Order No. Note Drace Rated control voltage Ordering data Control voltage Drace Serew connection Serew connection Type Order No. PUSH IN connection Type Order No. Note Drace Serew Control voltage Nominal control current Power rating max. switching frequency (DC control voltage) Status indicator Protective circuit Drace Serew Control voltage Nominal control current Power rating max. switching frequency (AC control voltage) Status indicator Protective circuit Drace Serew Connection Type Tos 220VDC/48VDC 0,1A Serew Control voltage Tos 5VDC/48VDC 0,1A Tos 5VDC/48VDC 0,1A Serew Control voltage Tos 5VDC/48VDC 0,1A				
Power rating Status indicator Green LED	12 V DC ±20 %	24 V DC ±20 %	4860 V DC ±20 %	110 V DC ±20 %
Anax. switching frequency (DC control voltage) Anax. switching frequency (AC control voltage) Anax. switching frequency (DC control voltage) Anax. switching frequency (AC	7.8 mA DC	7 mA DC	4.3 mA DC	2.6 mA DC
control voltage) max. switching frequency (AC control voltage) Status indicator Protective circuit Drder No. PUSH IN connection Type Order No. PUSH IN connection Type Order No. Power rating Drder No. Drder No. Power rating Draw rating frequency (DC control voltage) max. switching frequency (DC control voltage) max. switching frequency (AC control voltage) To retective circuit Drdering data Screw connection Type Tos 220VDC/48VDC 0,1A	< 95 mW	≤ 170 mW	< 200 mW	< 280 mW
rdering data crew connection Type Order No. USH IN connection Type Order No. In the state of t	3000 Hz	3000 Hz	500 Hz	500 Hz
tatus indicator rotective circuit Varistor, Reverse polarity protection				
rdering data crew connection Type Order No. USH IN connection Type Order No. USH IN connection Type Order No. USH IN connection Type Order No. Iote rdering data ontrol side ated control voltage ominal control current ower rating control voltage) nax. switching frequency (DC ontrol voltage) nax. switching frequency (AC ontrol voltage) tatus indicator rotective circuit Totective circuit Totective circuit Type rdering data crew connection Type TOS 220VDC/48VDC 0,1A	Green LED	Green LED	Green LED	Green LED
rdering data crew connection Type Order No. USH IN connection Type Order No. USH IN connection Type Order No. Order No. Order No. Order No. TOP 5VDC/48VDC 0,1A 8950760000 TOP 5VDC/48VDC 0,1A	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity
TOS 5VDC/48VDC 0,1A 8950700000 TOP 5VDC/48VDC 0,1A 8950760000 TOP 5VDC/48VDC 0,1A TOP 5VDC/48VDC 0,1A TOP 5VDC/48VDC 0,1A	protection	protection	protection	protection
TOS 5VDC/48VDC 0,1A 8950700000 TOP 5VDC/48VDC 0,1A 8950760000 TOP 5VDC/48VDC 0,1A TOP 5VDC/48VDC 0,1A				
Order No. USH IN connection Type Order No. Interest of the state of				
Type Order No. Type Order No. Top 5VDC/48VDC 0,1A 8950760000 Total Substituting Substitutin	TOS 12VDC/48VDC 0,1A	TOS 24VDC/48VDC 0,1A	TOS 48-60VDC/48VDC 0,1A	TOS 110VDC/48VDC 0,1A
Order No. Section Se	8950710000	8950720000	8950730000	8950740000
rdering data ontrol side and control voltage ominal control current ower rating ax. switching frequency (DC ontrol voltage) ax. switching frequency (AC ontrol voltage) tatus indicator rotective circuit rdering data crew connection Type TOS 220VDC/48VDC 0,1A	TOP 12VDC/48VDC 0,1A	TOP 24VDC/48VDC 0,1A	TOP 48-60VDC/48VDC 0,1A	TOP 110VDC/48VDC 0,1/
rdering data control side ated control voltage cominal control current cover rating ax. switching frequency (DC control voltage) ax. switching frequency (AC control voltage) tatus indicator rotective circuit rdering data crew connection Type 220 V DC 500 H2 1.65 mA DC 500 Hz 500 Hz Varistor, Reverse polarity protection	8950770000	8950780000	8950790000	8950800000
Acted control voltage Jominal control current Jomes rating Jomes rat	24 V AC	4860 V AC	120 V AC	230 V AC
Indicator Ind				
ower rating ≤ 360 mW nax. switching frequency (DC ontrol voltage) nax. switching frequency (AC ontrol voltage) tatus indicator Green LED voltactive circuit Varistor, Reverse polarity protection protection refering data crew connection Type TOS 220VDC/48VDC 0,1A	24 V AC ±20%	4860 V AC ±20 %	120 V AC ±20 %	230 V AC +10 % / -20 %
nax. switching frequency (DC ontrol voltage) nax. switching frequency (AC ontrol voltage) tatus indicator Green LED Varistor, Reverse polarity protection redering data crew connection Type TOS 220VDC/48VDC 0,1A	7.4 mA AC	4.3 mA AC	2.9 mA AC	1.75 mA AC
ontrol voltage) ax. switching frequency (AC ontrol voltage) tatus indicator	< 0.18 VA	≤ 0.2 VA	≤ 0.3 VA	≤ 0.4 VA
ontrol voltage) tatus indicator rotective circuit Varistor, Reverse polarity protection rdering data crew connection Type TOS 220VDC/48VDC 0,1A				
rdering data crew connection Varistor, Reverse polarity protection rdering data Type TOS 220VDC/48VDC 0,1A	10 Hz	10 Hz	10 Hz	10 Hz
rdering data crew connection Type TOS 220VDC/48VDC 0,1A	Green LED	Green LED	Green LED	Green LED
crew connection Type TOS 220VDC/48VDC 0,1A	Varistor	Varistor	Varistor	Varistor
Screw connection Type TOS 220VDC/48VDC 0,1A				
Order No. 8950750000	TOS 24VAC/48VDC 0,1A	TOS 48-60VAC/48VDC 0,1A	TOS 120VAC/48VDC 0,1A	TOS 230VAC/48VDC 0,1/
	8950820000	8950830000	8950840000	8950850000
USH IN connection Type TOP 220VDC/48VDC 0,1A	TOP 24VAC/48VDC 0,1A	TOP 48-60VAC/48VDC 0,1A	TOP 120VAC/48VDC 0,1A	TOP 230VAC/48VDC 0,1
Order No. 8950810000	8950860000	8950870000	8950880000	8950890000

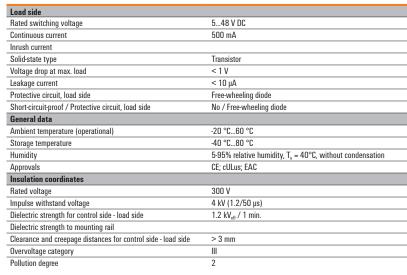
2737920000 **Weidmüller № C.43**

Solid-state relays, 5...48 V DC / 500 mA Output versions

- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		ries and dimensioned drawings: r ries page.	refer to the TERMOPTO

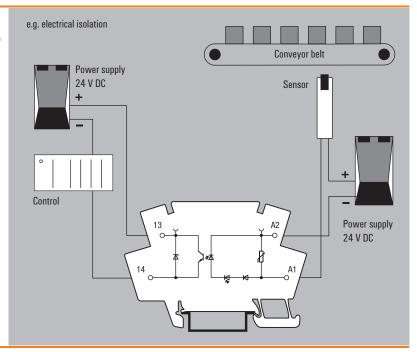
Applications

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C.44 Weidmüller ₹ 2737920000

Solid-state relays, $5...48\ V\ DC\ /\ 500\ mA$ **Output versions**

Control side Rated control voltage Nominal control current Power rating max. switching frequency (DC control voltage)	5 V DC ±20 %				
Nominal control current Power rating max. switching frequency (DC	5 V DC +20 %				
Power rating max. switching frequency (DC	0 1 00 -20 /0	12 V DC ±20 %	24 V DC ±20 %	4860 V DC ±20 %	110 V DC ±20 %
max. switching frequency (DC	7.7 mA DC	7.8 mA DC	7 mA DC	4.3 mA DC	2.6 mA DC
	< 40 mW	< 95 mW	≤ 170 mW	≤ 200 mW	≤ 280 mW
	200 Hz	200 Hz	200 Hz	200 Hz	200 Hz
max. switching frequency (AC control voltage)					
Status indicator	Green LED	Green LED	Green LED	Green LED	Green LED
Protective circuit	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection	Varistor, Reverse polarity protection
Order No.	TOS 5VDC/48VDC 0,5A 895090000 TOP 5VDC/48VDC 0,5A 8950960000	TOS 12VDC/48VDC 0,5A 8950910000 TOP 12VDC/48VDC 0,5A 8950970000	TOS 24VDC/48VDC 0,5A 895092000 TOP 24VDC/48VDC 0,5A 8950980000	TOS 48-60VDC/48VDC 0,5A 8950930000 TOP 48-60VDC/48VDC 0,5A 8950990000	TOS 110VDC/48VDC 0,5A 8950940000 TOP 110VDC/48VDC 0,5A 8951000000
Ordering data Control side	220 V DC	24 V AC	4860 V AC	120 V AC	230 V AC
Control side Rated control voltage	220 V DC +10 % / -15 %	24 V AC ±20%	4860 V AC ±20 %	120 V AC ±20 %	230 V AC +10 % / -20 %
Control side Rated control voltage	220 V DC +10 % / -15 % 1.65 mA DC	24 V AC ±20% 7.4 mA AC	4860 V AC ±20 % 4.3 mA AC	120 V AC ±20 % 2.9 mA AC	230 V AC +10 % /-20 % 1.75 mA AC
Control side Rated control voltage Nominal control current	220 V DC +10 % / -15 %	24 V AC ±20%	4860 V AC ±20 %	120 V AC ±20 %	230 V AC +10 % / -20 %
Control side Rated control voltage Nominal control current Power rating max. switching frequency (DC	220 V DC +10 % / -15 % 1.65 mA DC	24 V AC ±20% 7.4 mA AC	4860 V AC ±20 % 4.3 mA AC	120 V AC ±20 % 2.9 mA AC	230 V AC +10 % /-20 % 1.75 mA AC
Control side Rated control voltage Nominal control current Power rating max. switching frequency (DC control voltage) max. switching frequency (AC	220 V DC +10 % / -15 % 1.65 mA DC ≤ 360 mW	24 V AC ±20% 7.4 mA AC	4860 V AC ±20 % 4.3 mA AC	120 V AC ±20 % 2.9 mA AC	230 V AC +10 % / -20 % 1.75 mA AC
Control side	220 V DC +10 % / -15 % 1.65 mA DC ≤ 360 mW	24 V AC ±20% 7.4 mA AC < 0.18 VA	4860 V AC ±20 % 4.3 mA AC ≤ 0.2 VA	120 V AC ±20 % 2.9 mA AC ≤ 0.3 VA	230 V AC +10 % /-20 % 1.75 mA AC ≤ 0.4 VA

Weidmüller ₹ C.45

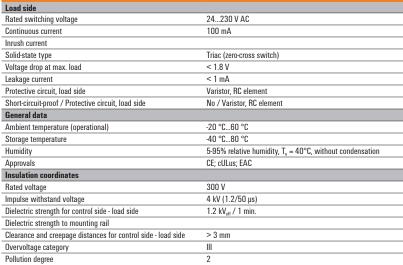
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Solid-state relays 24...230 V AC / 100 mA Output versions

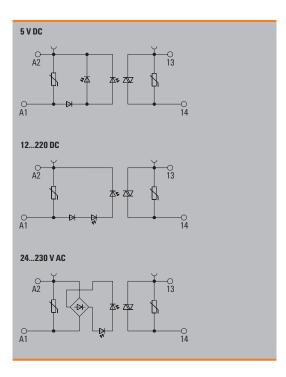
- · Space-saving 6.1 mm width
- · Plug-in cross-connections
- Screw and PUSH IN wire connection
- · Enclosed design



Technical data



Dimensions		Screw connection	PUSH IN
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note		ries and dimensioned drawings: refe ries page.	r to the TERMOPTO



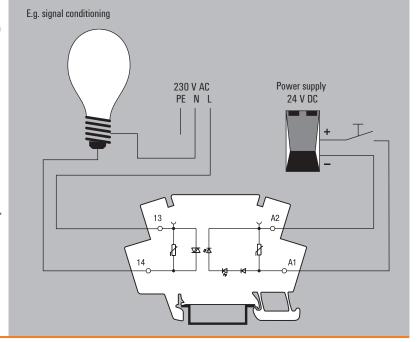
Applications

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C.46 Weidmüller № 2737920000

Solid-state relays 24...230 V AC / 100 mA **Output versions**

rdering data	5 V DC	12 V DC	24 V DC	4860 V DC	110 V DC
Control side					
Rated control voltage	5 V DC ±20 %	12 V DC ±20 %	24 V DC ±20 %	4860 V DC ±20 %	110 V DC ±20 %
Iominal control current	7.8 mA DC	3.6 mA DC	3.6 mA DC	3.7 mA DC	3.6 mA DC
ower rating	< 40 mW	< 45 mW	≤ 80 mW	≤ 170 mW	≤ 360 mW
nax. switching frequency (DC ontrol voltage)	10 Hz	10 Hz	10 Hz	10 Hz	10 Hz
ax. switching frequency (AC					
ontrol voltage) tatus indicator	Green LED	Green LED	Green LED	Green LED	Green LED
rotective circuit	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity	Varistor, Reverse polarity
ototilo unoun	protection	protection	protection	protection	protection
ordering data					
crew connection Type	TOS 5VDC/230VAC 0,1A	TOS 12VDC/230VAC 0,1A	TOS 24VDC/230VAC 0,1A	TOS 48-60VDC/230VAC 0,1A	TOS 110VDC/230VAC 0,1
Order No.	8951100000	8951110000	8951120000	8951130000	8951140000
USH IN connection Type	TOP 5VDC/230VAC 0,1A	TOP 12VDC/230VAC 0,1A	TOP 24VDC/230VAC 0,1A	TOP 48-60VDC/230VAC 0,1A	TOP 110VDC/230VAC 0,1
		8951170000	8951180000	8951190000	8951200000
Order No.	8951160000	0331170000		3357733333	
Order No.					230 V AC
Order No. lote rdering data	8951160000 220 V DC	24 V AC	4860 V AC	120 V AC	230 V AC
Order No. ote rdering data ontrol side	220 V DC	24 V AC	4860 V AC	120 V AC	
Order No. ote rdering data ontrol side ated control voltage	220 V DC 220 V DC +10 % / -15 %	24 V AC 24 V AC ±20%	4860 V AC 4860 V AC ±20 %	120 V AC 120 V AC ±20 %	230 V AC +10 % /-20 %
Order No. ote rdering data ontrol side ated control voltage ominal control current	220 V DC	24 V AC	4860 V AC	120 V AC	
Order No. ote dering data ontrol side ated control voltage ominal control current ower rating ax. switching frequency (DC	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC	24 V AC ±20% 8.8 mA AC	4860 V AC 4860 V AC ±20 % 6.4 mA AC	120 V AC 120 V AC ±20 % 8.5 mA AC	230 V AC +10 % / -20 % 7.7 mA AC
order No. ote ordering data ontrol side ated control voltage ominal control current ower rating ax. switching frequency (DC ontrol voltage) ax. switching frequency (AC	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW	24 V AC ±20% 8.8 mA AC	4860 V AC 4860 V AC ±20 % 6.4 mA AC	120 V AC 120 V AC ±20 % 8.5 mA AC	230 V AC +10 % / -20 % 7.7 mA AC
order No. ote rdering data ontrol side ated control voltage ominal control current ower rating nax. switching frequency (DC ontrol voltage) ax. switching frequency (AC ontrol voltage)	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz	24 V AC 24 V AC ±20% 8.8 mA AC ≤ 0.2 VA	4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA	230 V AC +10 % /-20 % 7.7 mA AC ≤ 1.7 VA
Order No.	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED Varistor, Reverse polarity	24 V AC 24 V AC ±20% 8.8 mA AC ≤ 0.2 VA	4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA	230 V AC +10 % / -20 % 7.7 mA AC ≤ 1.7 VA
order No. Interpolation of the control side ated control voltage forminal control current ower rating frequency (DC ontrol voltage) axx. switching frequency (AC ontrol voltage) tatus indicator	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED	24 V AC ±20% 8.8 mA AC ≤ 0.2 VA 10 Hz Green LED	4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA 10 Hz Green LED	230 V AC +10 % / -20 % 7.7 mA AC ≤ 1.7 VA 10 Hz Green LED
order No. ote rdering data ontrol side ated control voltage ominal control current ower rating nax. switching frequency (DC ontrol voltage) nax. switching frequency (AC ontrol voltage) tatus indicator	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED Varistor, Reverse polarity	24 V AC ±20% 8.8 mA AC ≤ 0.2 VA 10 Hz Green LED	4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA 10 Hz Green LED	230 V AC +10 % / -20 % 7.7 mA AC ≤ 1.7 VA 10 Hz Green LED
Order No. ote dering data ontrol side ated control voltage ominal control current ower rating ax. switching frequency (DC ontrol voltage) ax. switching frequency (AC ontrol voltage) atus indicator otective circuit	220 V DC 220 V DC +10 % /-15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED Varistor, Reverse polarity protection	24 V AC 24 V AC ±20% 8.8 mA AC ≤ 0.2 VA 10 Hz Green LED Varistor	4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA 10 Hz Green LED Varistor	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA 10 Hz Green LED Varistor	230 V AC +10 % /-20 % 7.7 mA AC ≤ 1.7 VA 10 Hz Green LED Varistor
dering data control side sted control voltage cominal control current swer rating ax. switching frequency (DC ntrol voltage) ax. switching frequency (AC ntrol voltage) atus indicator otective circuit	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED Varistor, Reverse polarity protection	24 V AC 24 V AC ±20% 8.8 mA AC ≤ 0.2 VA 10 Hz Green LED Varistor	4860 V AC 4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA 10 Hz Green LED Varistor	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA 10 Hz Green LED Varistor	230 V AC +10 % /-20 % 7.7 mA AC ≤ 1.7 VA 10 Hz Green LED Varistor
order No. dering data control side sted control voltage cominal control current swer rating ax. switching frequency (DC ntrol voltage) ax. switching frequency (AC ntrol voltage) atus indicator otective circuit	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED Varistor, Reverse polarity protection TOS 220VDC/230VAC 0,1A 8951150000	24 V AC ±20% 8.8 mA AC ≤ 0.2 VA 10 Hz Green LED Varistor TOS 24VAC/230VAC 0,1A 8951220000	4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA 10 Hz Green LED Varistor TOS 48-60VAC/230VAC 0,1A 8951230000	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA 10 Hz Green LED Varistor TOS 120VAC/230VAC 0,1A 8951240000	230 V AC +10 % /-20 9 7.7 mA AC ≤ 1.7 VA 10 Hz Green LED Varistor TOS 230VAC/230VAC 0, 8951250000
dering data control side sted control voltage cominal control current wer rating ax. switching frequency (DC ntrol voltage) ax. switching frequency (AC ntrol voltage) atus indicator otective circuit	220 V DC 220 V DC +10 % / -15 % 2.9 mA DC ≤ 640 mW 10 Hz Green LED Varistor, Reverse polarity protection	24 V AC 24 V AC ±20% 8.8 mA AC ≤ 0.2 VA 10 Hz Green LED Varistor	4860 V AC 4860 V AC 4860 V AC ±20 % 6.4 mA AC ≤ 0.3 VA 10 Hz Green LED Varistor	120 V AC 120 V AC ±20 % 8.5 mA AC ≤ 1 VA 10 Hz Green LED Varistor	230 V AC +10 % /-20 ° 7.7 mA AC ≤ 1.7 VA 10 Hz Green LED Varistor

Weidmüller ₹ C.47

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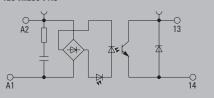
Solid-state relays, 5...48 V DC / 500 mA Output versions with RC element

- Space-saving 6.1 mm width
- Plug-in cross-connections
- Screw and PUSH IN wire connection
- Enclosed design
- RC input circuitry for improved interference immunity





120 V...230 V AC



Technical data

Load side	
Rated switching voltage	548 V DC
Continuous current	500 mA
Inrush current	
Solid-state type	Transistor
Voltage drop at max. load	< 1 V
Leakage current	< 10 μA
Protective circuit, load side	Diode circuit
Short-circuit-proof / Protective circuit, load side	No / Diode circuit
General data	
Ambient temperature (operational)	-20 °C60 °C
Storage temperature	-40 °C80 °C
Humidity	5-95% relative humidity, $T_u = 40$ °C, without condensation
Approvals	CE; cULus; EAC
Insulation coordinates	
Rated voltage	300 V
Impulse withstand voltage	4 kV (1.2/50 μs)
Dielectric strength for control side - load side	1.2 kV _{eff} / 1 min.
Dielectric strength to mounting rail	
Clearance and creepage distances for control side - load side	> 3 mm
Overvoltage category	III
Pollution degree	2

Dimensions		Screw connection	PUSH IN connection
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 4	1.5 / 0.5 / 2.5
Depth x width x height	mm	55 / 6.1 / 74.4	55 / 6.1 / 79.4
Note	Accessor Accessor	ies and dimensioned drawings: ies page.	refer to the TERMOPTO

Ordering data

Control side Rated control voltage Nominal control current Power rating

max. switching frequency (DC control voltage)
max. switching frequency (AC control voltage)
Status indicator

Protective circuit

120 V AC	
120 V AC ±20 %	
6.4 mA AC	
≤ 0.61 VA	
10 Hz	
 Green LFD	

RC element

230 V AC
230 V AC +10 %/ -15 %
6.4 mA AC
≤ 1.5 VA
10 Hz
Green LED
RC element

Ordering data Screw connection Type

Order No.

PUSH IN connection Type
Order No.

Note

TOS 120VAC/48VDC 0.5A RC
1180290000
TOP 120VAC/48VDC 0.5A RC
1188830000

TOS 230VAC/48VDC 0.5A RC
1189270000
TOP 230VAC/48VDC 0.5A RC
1189260000

C.48 Weidmüller ₹ 2737920000