

WAVESERIES
WRS2 24/48VUC 1A1R

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



The WAVEBOX enclosure just 22.5 mm wide is ideal for the innovative relays of the WAVESERIES. Plug-in electronics, connections and cross-connections ease installation, setup and servicing on the customer's premises.

The WAVESERIES relays are available with different input voltages and contact configurations. International approvals permit their use worldwide.

General ordering data

Order No.	8418280000
Type	WRS2 24/48VUC 1A1R
Version	WAVESERIES, Relays, No. of contacts: 1, NC and NO contact, AgSnO ₂ , Rated control voltage: 24 V UC $\pm 10\%$, 48 V UC $\pm 10\%$, Continuous current: 5 A, Screw connection
GTIN (EAN)	4032248025886
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	22.5 mm	Height	92.4 mm
Depth	112.4 mm	Net weight	97.7 g

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-25 °C...+50 °C
Ambient temperature	-25 °C...+50 °C	Storage temperature	-40 °C...+60 °C

Input

Protective circuit	Integrated free-wheel diode, Reverse polarity protection	Rated control voltage	24 V UC $\pm$ 10 %, 48 V UC $\pm$ 10 %
Rated current AC	Approx. 11 mA	Rated current DC	Approx. 8.5 mA
Power rating	0.17 W/0.21 VA // 0.4 W/0.48 VA	Response / drop-out voltage AC coil	13.5 V / 9 V // 24 V / 16 V
Pull-in (sparkover) / drop-out voltage DC coil	13.5 V / 9 V // 24 V/16 V	Pull-in / drop-out current, AC coil	4.4 mA / 2.7 mA // 4.3 mA / 1.6 mA
Pull-in / drop-out current, DC coil	4.3 mA / 1.6 mA // 4.4 mA / 1.6 mA	Status indicator	Green LED

Output

Max. switching voltage, AC	250 V	Continuous current	5 A
Making current	8 A	Max. switching power	1250 VA (at 20°C ambient temperature)
Switch-on delay	< 11 ms	Switch-off delay	< 15 ms
Response time	11 ms / 15 ms	Min. switching power	100 mA / 5 V, 10 V / 10 mA, 24 V / 1 mA
Max. switching frequency at rated load	0.1 Hz	Max. switching current	5 A

Contact specifications

No. of contacts	1	Contact design	NC and NO contact
Contact material	AgSnO ₂	Mechanical service life	5 x 10 ⁷ switching cycles
Electrical service life of AC coil	1x10 ⁵ switching cycles	Contact resistance	Max. 30 mΩ / max. 100 mΩ at 1 A/ 6 V DC

general data

Wire connection method	Screw connection	Humidity	40 °C / 93 % rel. humidity, no condensation
Ambient temperature	-25 °C...+50 °C		

Insulation coordination

Creepage and clearance distance input – output	$\geq$ 8 mm	Dielectric strength input – output	4 kV _{eff} 1s
Rated voltage	300 V	Dielectric strength to mounting rail	4 kV _{eff} / 1 min.
Impulse withstand voltage	6 kV (1.2/50 μ s)	Pollution severity	2
Surge voltage category	III		

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Technical data

Other technical data

Version	Protective circuit	Integrated free-wheel diode, Reverse polarity protection
Status indicator	Relay coupler Green LED	

Further details of approvals / standards

Standards	DIN EN 50178, UL508
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Connection data

Clamping range, rated connection	1.5 mm ²	Clamping range, rated connection, max.	2.5 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Wire connection method	Screw connection

Classifications

ETIM 2.0	EC001437	ETIM 3.0	EC001437
UNSPSC	30-21-19-17	eClass 4.1	40-02-06-14
eClass 5.1	27-37-16-01	eClass 6.2	27-37-16-01
eClass 7.1	27-37-16-01		

Approvals

Approvals



ROHS	Conform
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Downloads

Declaration of Conformity	K162_12_98.pdf
	3-D model

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Drawings**Electric symbol**