

WAVESERIES
WRS2 12/24VDC 1A1R

Weidmüller Interface GmbH & Co. KG
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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.	8418270000
Part designation	WRS2 12/24VDC 1A1R
Version	WAVESERIES, Relays, No. of contacts: 1, NC and NO contact, Rated control voltage: 12 V DC ±10 %, 24 V DC ±10 %, , , Screw connection
GTIN (EAN)	4032248025879
Qty.	1 pc(s).

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Technical data

Dimensions

Length	92.4 mm	Width	22.5 mm
Height	112.4 mm		

Temperature

Ambient temperature (operational)	-25 °C...+50 °C	Storage temperature	-40 °C...+60 °C
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Input

Rated voltage	300 V	Rated control voltage	12 V DC ±10 % 24 V DC ±10 %
Pull-in (sparkover) / drop-out voltage DC coil	14.5 V / 6.1 V // 7.5 V / 3.5 V	Rated current DC	Approx. 20 mA
Pull-in / drop-out current, DC coil	10 mA / 4.2 mA // 10 mA / 4 mA	Power rating	0.24 W / 0.5 W
Status indicator	Green LED		

Output

Continuous current	5 A	Max. switching current	5 A
Max. switching frequency at rated load	0.1 Hz	Sparkover time / Drop-out time	7 ms / 5 ms
Switch-off delay	5 ms	Switch-on delay	6 ms
Switching voltage AC, max.	250 V	making current	8 A
max. switching capacity	1250 VA (at 20°C ambient temperature)	min. switching capacity	100 mA / 5 V

Contact data

Contact design	NC and NO contact	No. of contacts	1
Contact material	AgSnO2	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

Rated data

Conductor connection system	Screw connection	DIN Rail compatibility	TS 35
Humidity	40°C / 93% rel. humidity, no condensation		

Insulation coordination (EN 50 178)

Clearance and creepage distances for control/load side	≥ 8 mm	Dielectric strength for control side - load side	4 kV _{eff} 1s
Dielectric strength to mounting rail	4 kV _{eff} / 1 min.	Impulse withstand voltage	6 kV (1.2/50 μs)
Overtoltage category	III	Pollution severity	2
Protective separation acc. to VDE 0106 part 101	Yes	Rated voltage	300 V

Other technical data

Free-wheel diode	Yes	Reverse polarity protection	Available
Status indicator	Green LED	Version	Relay coupler

Datasheet**WAVESERIES
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Technical data**Approvals**

Approvals institutes CSA; CURUS; GOSTME25;
CE

Classifications

ETIM 2.0	EC001437	ETIM 3.0	EC001437
eClass 5.1	27-37-16-01	eClass 6.0	27-37-16-01

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Drawings

Electric symbol

