

**WAVESERIES**  
**WRS2 12/24VDC 1A1R**

**Weidmüller Interface GmbH & Co. KG**  
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Germany  
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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.	<a href="#">8418270000</a>
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 <sup>7</sup> switching cycles
Electrical service life of AC coil	1x10 <sup>5</sup> 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 <sub>eff</sub> 1s
Dielectric strength to mounting rail	4 kV <sub>eff</sub> / 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**

