

**WAVESERIES**  
**WRS2 24/48VUC 2U**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
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Germany  
Fon: +49 5231 14-0  
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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="#">8418310000</a>
Part designation	WRS2 24/48VUC 2U
Version	WAVESERIES, Relays, No. of contacts: 2, CO contact, Rated control voltage: 24 V UC ±10 %, 48 V UC ±10 %, , , Screw connection
GTIN (EAN)	4032248025916
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	24 V UC ±10 % 48 V UC ±10 %
Pull-in (sparkover) / drop-out voltage DC coil	16 V / 9.5 V // 29 V / 15 V	Rated current AC	Approx. 15 mA
Rated current DC	14 mA	Pull-in / drop-out current, AC coil	9 mA / 4.5 mA // 8.3 mA / 4.1 mA
Pull-in / drop-out current, DC coil	9 mA/4.5 mA // 8.3 mA/4.1 mA	Power rating	0.35 VA(W) // 0.7 VA(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	6 ms / 10 ms
Switch-off delay	Approx. 10 ms	Switch-on delay	approx. 6 ms
Switching voltage AC, max.	250 V	making current	max. 12 A
max. switching capacity	1250 VA (at 20°C ambient temperature)	min. switching capacity	100 mA / 5 V DC

**Contact data**

Contact design	CO contact	No. of contacts	2
Contact material	Gold alloy	Mechanical service life	20 x 10 <sup>6</sup> switching cycles
Electrical service life, DC coil	1.5x10 <sup>5</sup> switching cycles	Electrical service life of AC coil	1.5x10 <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	≥ 5.5 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)
Overvoltage 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
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**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**

