

**WAVESERIES**  
**WRS1 2.4-24VDC 1U**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
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.	<a href="#">8275320000</a>
Part designation	WRS1 2.4-24VDC 1U
Version	WAVESERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 2,4...24 V DC ±10 %, Screw connection
GTIN (EAN)	4032248025817
Qty.	1 pc(s).

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## Technical data

### Dimensions

Length	72 mm	Width	22.5 mm
Height	92.4 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	2,4...24 V DC ±10 %
Pull-in (sparkover) / drop-out voltage DC coil	1.9 V	Rated current DC	4.6 mA
Pull-in / drop-out current, DC coil	3.88 mA	Power rating	200 mW
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 / 6 ms
Switch-off delay	approx. 6 ms	Switch-on delay	approx. 7 ms
Switching voltage AC, max.	250 V	making current	10 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	1
Contact material	Gold alloy	Mechanical service life	20 x 10 <sup>6</sup> switching cycles
Electrical service life, DC coil	150x10 <sup>3</sup> switching cycles	Electrical service life of AC coil	150x10 <sup>3</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

### Approvals

Approvals institutes	CSA; CURUS; GOSTME25; CE
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Last update 27.09.2010 / We reserve the right to make technical changes.

**Datasheet****WAVESERIES  
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**Technical data****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**

