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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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**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).

## WAVESERIES WRS1 2.4-24VDC 1U

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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**

