



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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 24/48VUC 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="#">8286280000</a>
Part designation	WRS1 24/48VUC 1U
Version	WAVESERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 24 V UC ±10 %, 48 V UC ±10 %, , , Screw connection
GTIN (EAN)	4032248025831
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	24 V UC ±10 % 48 V UC ±10 %
Response / drop-out voltage AC coil	16 V / 9.5 V // 29 V / 15 V	Pull-in (sparkover) / drop-out voltage DC coil	16 V / 9.5 V // 29 V / 15 V
Rated current AC	Approx. 14 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 // 0.5 VA	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 / 6 ms
Switch-off delay	approx. 6 ms	Switch-on delay	approx. 6 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

**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**

