



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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



WAVESERIES
WRS2 24/48VUC 1A1R

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.	8418280000
Part designation	WRS2 24/48VUC 1A1R
Version	WAVESERIES, Relays, No. of contacts: 1, NC and NO contact, Rated control voltage: 24 V UC ±10 %, 48 V UC ±10 %, , , Screw connection
GTIN (EAN)	4032248025886
Qty.	1 pc(s).

WAVESERIES
WRS2 24/48VUC 1A1R

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com

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
-----------------------------------	-----------------	---------------------	-----------------

Input

Rated voltage	300 V	Rated control voltage	24 V UC ±10 % 48 V UC ±10 %
Response / drop-out voltage AC coil	13.5 V /9 V // 24 V/16 V	Pull-in (sparkover) / drop-out voltage DC coil	13.5 V /9 V // 24 V/16 V
Rated current AC	Approx. 11 mA	Rated current DC	Approx. 8.5 mA
Pull-in / drop-out current, AC coil	4.4 mA / 2.7 mA // 4.3 mA / 1.6 mA	Pull-in / drop-out current, DC coil	4.3 mA/1.6 mA // 4.4 mA/1.6 mA
Power rating	0.17 W/0.21 VA // 0.4 W/0.48 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	11 ms / 15 ms
Switch-off delay	< 15 ms	Switch-on delay	< 11 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 ⁷ switching cycles
Electrical service life of AC coil	1x10 ⁵ 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 _{eff} 1s
Dielectric strength to mounting rail	4 kV _{eff} / 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
WRS2 24/48VUC 1A1R**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-2083
www.weidmueller.com

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

**WAVESERIES
WRS2 24/48VUC 1A1R**

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-2083
 www.weidmueller.com

Drawings

Electric symbol

