



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 2U

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. | 8418310000 |
| 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 |
|-----------------------------------|-----------------|---------------------|-----------------|

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 ⁶ switching cycles |
| Electrical service life, DC coil | 1.5x10 ⁵ switching cycles | Electrical service life of AC coil | 1.5x10 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 | ≥ 5.5 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
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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 |

Datasheet

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Drawings

Electric symbol

