

WAVESERIES
WRS2 12/24VDC 2U

Weidmüller Interface GmbH & Co. KG
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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. | 8418300000 |
| Part designation | WRS2 12/24VDC 2U |
| Version | WAVESERIES, Relays, No. of contacts: 2, CO contact, Rated control voltage: 12 V DC $\pm 10\%$, 24 V DC $\pm 10\%$, , , Screw connection |
| GTIN (EAN) | 4032248025909 |
| 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 | 12 V DC ±10 % 24 V DC ±10 % |
| Pull-in (sparkover) / drop-out voltage DC coil | 15 V / 4.8 V // 8.5 V / 3 V | Rated current DC | Approx. 23 mA |
| Pull-in / drop-out current, DC coil | 15.2 mA/5.7 mA//15.3 mA/5.6 mA | Power rating | 0.26 W / 0.53 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 |

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Drawings

Electric symbol

