

WAVESERIES
WRS1 24/48VUC 1U

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.	8286280000
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 ⁶ switching cycles
Electrical service life, DC coil	150x10 ³ switching cycles	Electrical service life of AC coil	150x10 ³ 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
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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**