

**MICROSERIES  
MRS 5Vdc 1CO**

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



Relays of the MICROSERIES are used for isolating and coupling digital signals.

They are characterised by the following features:

- modular width 6.1 mm
- Pluggable relay
- Pluggable cross-connection for four voltages in input and output circuits,
- innovative retention and ejection aid,
- LED operating indicator, reverse polarity protection diode, free-wheeling diode

**General ordering data**

Order No.	<a href="#">8556080000</a>
Part designation	MRS 5Vdc 1CO
Version	MICROSERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 5 V DC $\pm 20\%$ , Screw connection
GTIN (EAN)	4032248195206
Qty.	10 pc(s).

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**Technical data**
**Dimensions**

Length	93 mm	Width	6.1 mm
Height	92 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	5 V DC ±20 %
Pull-in (sparkover) / drop-out voltage DC coil	3.2 V / 1.6 V	Rated current DC	38.5 mA
Pull-in / drop-out current, DC coil	21,6 mA / 8 mA	Power rating	193 mW
Status indicator	Green LED		

**Output**

Continuous current	6 A	Max. switching current	6 A
Max. switching frequency at rated load	0.1 Hz	Sparkover time / Drop-out time	6.2 ms / 3.9 ms
Switch-off delay	7.5 ms	Switch-on delay	9.3 ms
Switching voltage AC, max.	250 V	making current	6 A
max. switching capacity	1500 VA	min. switching capacity	12 V / 100 mA

**Contact data**

Contact design	CO contact	No. of contacts	1
Contact material	AgSnO	Mechanical service life	20 x 10 <sup>6</sup> switching cycles

**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 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	Protection class	IP 20
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

**Approvals**

Approvals institutes	CSA; CULUS; CURUS; GOSTME25; CE
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**Classifications**

eClass 6.0	27-37-16-01
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Creation date November 11, 2010 6:07:07 PM CET

Last update 27.09.2010 / We reserve the right to make technical changes.

**Datasheet**

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**Technical data**

**Notes**

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Note, technical data	Cross-connectors and markers - refer to MICROSERIES accessories
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**Drawings**

**Electric symbol**

