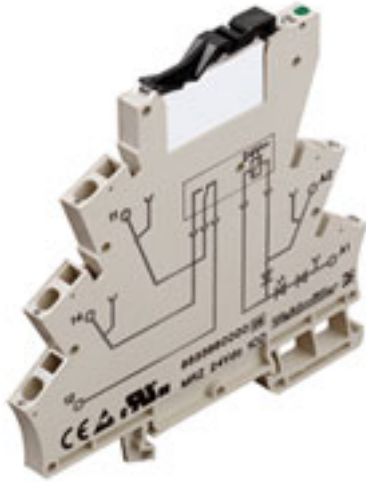


## MICROSERIES MRZ 12Vdc 1CO

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-2083  
[www.weidmueller.com](http://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="#">8556140000</a>                                                                                               |
| Part designation | MRZ 12Vdc 1CO                                                                                                            |
| Version          | MICROSERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 12 V DC $\pm 20$ %, Tension clamp connection |
| GTIN (EAN)       | 4032248195367                                                                                                            |
| Qty.             | 10 pc(s).                                                                                                                |

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## Technical data

### Dimensions

|        |       |       |        |
|--------|-------|-------|--------|
| Length | 94 mm | Width | 6.1 mm |
| Height | 91 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 ±20 % |
| Pull-in (sparkover) / drop-out voltage DC coil | 6.4 V / 2.5 V | Rated current DC      | 17 mA         |
| Pull-in / drop-out current, DC coil            | 8.4mA/2.4mA   | Power rating          | 210 mW        |
| Status indicator                               | Green LED     |                       |               |

### Output

|                                        |               |                            |         |
|----------------------------------------|---------------|----------------------------|---------|
| Continuous current                     | 6 A           | Max. switching current     | 6 A     |
| Max. switching frequency at rated load | 0.1 Hz        | 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 | Tension clamp 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;<br>GOSTME25; CE |
|----------------------|------------------------------------|

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**Technical data****Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 2.0   | EC001437    | ETIM 3.0   | EC001437    |
| eClass 5.1 | 27-37-16-01 | eClass 6.0 | 27-37-16-01 |

**Notes**

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

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## Drawings

### Electric symbol

