

**MICROSERIES**  
**MRS 24Vdc 1CO****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

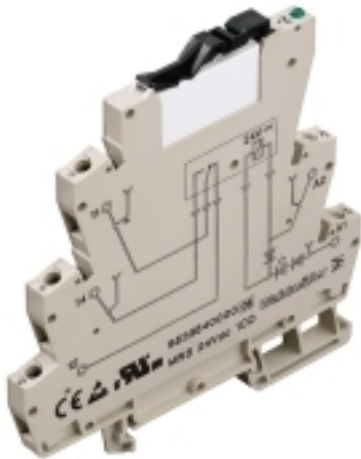
D-32758 Detmold

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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**

|            |                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Type       | MRS 24Vdc 1CO                                                                                                                                   |
| Order No.  | <a href="#">8533640000</a>                                                                                                                      |
| Version    | MICROSERIES, Relays, No. of contacts: 1, CO contact, AgNi, Rated control voltage: 24 V DC $\pm 20$ %, Continuous current: 6 A, Screw connection |
| GTIN (EAN) | 4032248169740                                                                                                                                   |
| Qty.       | 10 pc(s).                                                                                                                                       |

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**Technical data**
**Dimensions and weights**

|       |        |            |         |
|-------|--------|------------|---------|
| Width | 6.1 mm | Height     | 93 mm   |
| Depth | 94 mm  | Net weight | 34.27 g |

**Temperatures**

|                     |                                                |                       |                 |
|---------------------|------------------------------------------------|-----------------------|-----------------|
| Humidity            | 40 °C / 93 % rel. humidity,<br>no condensation | Operating temperature | -25 °C...+55 °C |
| Storage temperature | -40 °C...+60 °C                                |                       |                 |

**Input**

|                       |                                                                |                              |                   |
|-----------------------|----------------------------------------------------------------|------------------------------|-------------------|
| Protective circuit    | Integrated free-wheel<br>diode, Reverse polarity<br>protection | Pull-inrop-out current, typ. | 4 mA / 1.2 mA DC  |
| Rated control voltage | 24 V DC $\pm$ 20 %                                             | Rated current DC             | 6.6 mA            |
| Power rating          | 160 mW                                                         | Pull-inrop-out voltage, typ. | 16.9 V / 6.5 V DC |
| Status indicator      | Green LED                                                      |                              |                   |

**Output**

|                                         |              |                                         |                                            |
|-----------------------------------------|--------------|-----------------------------------------|--------------------------------------------|
| Rated switching voltage                 | 250 V AC     | Max. switching voltage, AC              | 250 V                                      |
| Max. switching voltage, DC              | 250 V        | Continuous current                      | 6 A                                        |
| Inrush current                          | 6 A          | AC switching capacity (resistive), max. | 1500 VA @ 250 V                            |
| DC switching capacity (resistive), max. | 144 W @ 24 V | Switch-on delay                         | 6.6 ms                                     |
| Switch-off delay                        | 5.8 ms       | Min. switching power                    | 100 mA / 5 V, 10 V / 10<br>mA, 24 V / 1 mA |
| Max. switching frequency at rated load  | 0.1 Hz       |                                         |                                            |

**Contact data**

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

**General data**

|                        |                  |          |                                                |
|------------------------|------------------|----------|------------------------------------------------|
| Wire connection method | Screw connection | Humidity | 40 °C / 93 % rel. humidity,<br>no condensation |
|------------------------|------------------|----------|------------------------------------------------|

**Insulation coordination**

|                                                   |                              |                           |                       |
|---------------------------------------------------|------------------------------|---------------------------|-----------------------|
| Creepage and clearance distance input –<br>output | $\geq 5.5$ mm                | Rated voltage             | 300 V                 |
| Dielectric strength to mounting rail              | 4 kV <sub>eff</sub> / 1 min. | Impulse withstand voltage | 4 kV (1.2/50 $\mu$ s) |
| Protection degree                                 | IP 20                        | Pollution severity        | 2                     |
| Surge voltage category                            | III                          |                           |                       |

**Other technical data**

|                  |               |                    |                                                                |
|------------------|---------------|--------------------|----------------------------------------------------------------|
| Version          | Relay coupler | Protective circuit | Integrated free-wheel<br>diode, Reverse polarity<br>protection |
| Status indicator | Green LED     |                    |                                                                |

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**Technical data**
**Further details of approvals / standards**

|                         |         |                         |                     |
|-------------------------|---------|-------------------------|---------------------|
| Certificate No. (CSA)   | LR82859 | Certificate No. (cURus) | E141197             |
| Certificate no. (cULus) | E141197 | Standards               | DIN EN 50178, UL508 |

**Connection data**

|                                        |                     |                                        |                   |
|----------------------------------------|---------------------|----------------------------------------|-------------------|
| Clamping range, rated connection       | 2.5 mm <sup>2</sup> | Clamping range, rated connection, max. | 4 mm <sup>2</sup> |
| Clamping range, rated connection, min. | 0.5 mm <sup>2</sup> | Wire connection method                 | Screw connection  |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001437    | UNSPSC     | 30-21-19-17 |
| eClass 5.1 | 27-37-16-01 | eClass 6.2 | 27-37-16-01 |
| eClass 7.1 | 27-37-16-01 |            |             |

**Product information**

|                                 |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Descriptive text technical data | Cross-connectors and markers - refer to MICROSERIES accessories |
|---------------------------------|-----------------------------------------------------------------|

**Approvals**

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

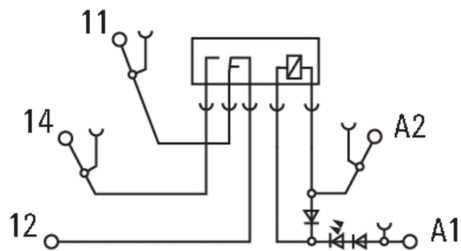
|                           |                                |
|---------------------------|--------------------------------|
| Declaration of Conformity | <a href="#">K205_09_09.pdf</a> |
|                           | <a href="#">3-D model</a>      |

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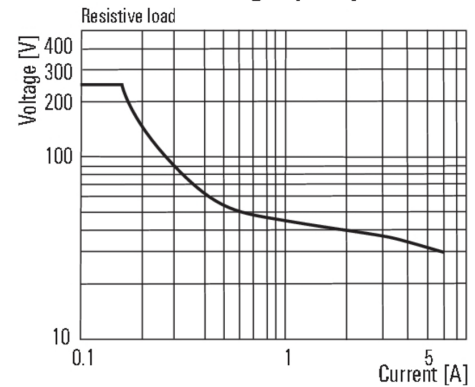
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## Drawings

### Electric symbol

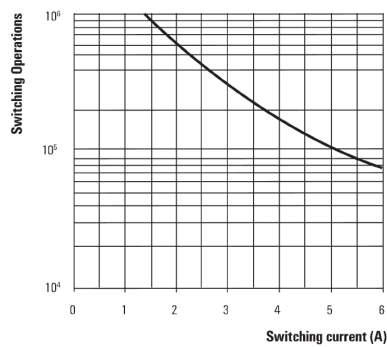


### DC load breaking capacity



### Electrical endurance

230 V AC resistive load



### Derating curve

in combination with plug-in module

